



Nevada Public Agency Insurance Pool
Public Agency Compensation Trust
201 S. Roop Street, Suite 102
Carson City, NV 89701-4779
Toll Free Phone (877) 883-7665
Telephone (775) 885-7475

**Notice of Meeting and Agenda for Loss Control Committee of
Nevada Public Agency Insurance Pool and Public Agency Compensation Trust**

Date: Tuesday, July 18, 2017

Time: 9:00 A.M.

**Place: Whitney Peak Hotel, Mt. Rose Room
255 N Virginia St, Reno, NV 89501**

AGENDA

Notices:

- 1. Items on the agenda may be taken out of order;**
- 2. Two or more items on the agenda may be combined for consideration**
- 3. Any item on the agenda may be removed or discussion may be delayed at any time**
- 4. The general Public Comment periods are limited to those items not listed on the agenda. Public Comment periods are devoted to comments by the general public, if any, and may include discussion of those comments; however, no action may be taken upon a matter raised under Public Comments until the matter itself has been included specifically on an agenda as an item upon which action may be taken. Public Comments are Limited to Three Minutes per Person.**
- 5. At the discretion of the Chair of the meeting, public comments on specific agenda items may be allowed, but must be limited to the specific agenda item.**

- 1. Roll**
- 2. Public Comment**
- 3. For Possible Action: Approval of Agenda**
- 4. For Possible Action: Approval of Minutes of Committee Meeting of March 21, 2017.**
- 5. For Possible Action: Discussion of and presentation by Jackie Cox (Specialty Health) regarding 24/7/365 program now available. Provide direction related to effective deployment of program. Time allotted: 15 minutes.**
- 6. For Possible Action: Discussion of and presentations by:**
 - a. Jeff Schobel of *STOPit*. *STOPit* provides individuals with a mobile app to report incidents, including attaching photo or video evidence. Time allotted: 15 minutes.
<http://stopitsolutions.com/>
 - b. Possible action regarding support and/or coordination of programs for incident reporting.

7. **For Possible Action:** Discussion of and presentation by Phil Coons of *TargetSolutions*. *TargetSolutions* is an on-line learning management system which provides federal, state and local public safety training mandates. Discussion relating to obtaining access to fire and EMS training only. Time allotted: 15 minutes. <http://www.targetsolutions.com/> Possible action to determine Pool/Pact support for paid and volunteer fireman/EMS access to Target Solutions products.
8. **For Possible Action:** Discussion and consideration of and status of the Loss Control Excellence Program, increasing award/participation incentives, and overview of program.
9. **For Possible Action:** Status and update on (1) ELearning: TORCH Enterprise Platform, more functionality lower subscription pricing;
10. **For Possible Action:** MSDSONline: New contract, lower subscription price, additional HQ platform available to all members.
11. **For Discussion:** Status and update on Aquatic Research Group inspection of four member swimming pools and risk management reporting on June 2017 audits;
12. **For Discussion:** Sarah Adler of Nevada Department of Education SB 212 “Safe to Tell” program Coordinator. Time allotted: 15 minutes.
13. **For Possible Action:** Discuss, approve, or deny Risk Management Programs:
 - A. Expended funds for FY 2016 and 2017;
 - B. Pool/Pact Risk management grants program policies;
 - C. Current and possible additional Risk Management Funding Projects and Programs;
 - D. Risk Management/Grant funding for 2017-2018.
14. **For Discussion:** Discussion of whether the Loss Control Committee concurs with the possible creation of an IT/Cyber Working Group to develop policies and procedures for members.
15. **For Possible Action:** Review, status, and possible update of 2017-2019 Strategic Plan.
16. **Public Comment**
17. **For Possible Action: Adjournment**

This Agenda was posted at the following locations and at notice.nv.gov:

**NPAIP/PACT
201 S. Roop Street, Suite 102
Carson City, NV 89701**

**Carson City Courthouse
885 E. Musser Street
Carson City, NV 89701**

**Eureka County Courthouse
10 S. Main Street
Eureka, NV 89316**

**Churchill County Admin Complex
155 North Taylor Street
Fallon, NV 89406**

NOTICE TO PERSONS WITH DISABILITIES

Members of the public who are disabled and require special accommodations or assistance at the meeting are requested to notify the Nevada Public Agency Insurance Pool or Public Agency Compensation Trust in writing at 201 S. Roop Street, Suite 102, Carson City, NV 89701-4779, or by calling (775) 885-7475 at least three working days prior to the meeting

Copies of documents which may be reviewed by the Committee may be obtained electronically by emailing ZariaHanses@poolpact.com.



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**Minutes of Meeting of the Loss Control Committee of
Nevada Public Agency Insurance Pool and Public Agency Compensation Trust
Date: Tuesday, March 21, 2017
Time: 10:00 A.M.
Place: POOL/PACT Offices
201 S. Roop St. Carson City, NV 89701
CONFERENCE CALL-IN # 1-800-351-4899, Passcode: MikeR**

1. Roll

Members Present: Cash Minor, Ann Wiswell, Bob Spellberg, Geof Stark, Steve West, Dan Murphy, Darren Wagner
Members Absent: Bryce Boldt, John Dollar
Others Present: Mike Rebaleati, Wayne Carlson, Shani Dues, Sheriff Rick Adams, Undersheriff Bill Ferguson, (Mineral County), Zaria Hanses, Marshall Smith

2. Public Comment

Chair Minor opened Public comment and hearing none, closed the public comment period.

3. For Possible Action: Approval of Minutes of Committee Meeting of December 9, 2016.

On motion and second to approve the minutes, the motion carried.

4. For Discussion: Shani Dues (Lyon County School District), to present review and summary of Lyon County December 2016 lock-out incident.

Shani Dues summarized an event occurring in December 2016. She related that because of the information and training provided by Jeff Kaye (Safe School Operations) and the completed Hazard Vulnerability Assessment, District personnel, in coordination with law enforcement were able to quickly respond to the facts and transformed the initial lock-down to a lock-out situation. All personnel worked well together and the management of information assisted in resolving the matter efficiently. She indicated that the principals' secretaries were of great assistance as well.

5. For Discussion: Discussion of whether Pool/Pact should continue funding of BLR OSHA 30 and OSHA 10 courses.

Staff indicated the costs associated with the on-line BLR training courses: OSHA 30 (under \$200 per person) and OSHA 10 (under \$100 per person), were very helpful for more remote members. WILLIS trainers remain ready to conduct live training when there are 15 to 20 students available for training.

6. **For Discussion:** Discussion of whether Pool/Pact should augment its learning management system with BLR (general courses, i.e. Confined Spaces, Crane Operators) and TargetSolutions (specific courses for Fire/EMS).

Staff reviewed the new active shooter courses available to members through ELearning portal and information relating to other courses available through BLR and TargetSolutions.

7. **For Discussion:** Discussion of whether Pool/Pact should provide ELearning courses in Spanish.

The Committee discussed the need for training to be provided in Spanish. As this was the first such request for training, the Committee will continue to monitor the need for such training, particularly for safety courses.

8. **For Discussion:** Discussion re PP Risk management grants:
- Whether PP Risk Management Grants of less than \$10,000.00 should require 25% matching funds from applicant to conform with grants requests of more than \$10,000.00.
 - Whether grants for Stryker equipment could include cost of preventative maintenance service contracts.

Staff presented issues relating to whether the Risk Management Program should be re-evaluated and re-structured with new guidelines. The Committee discussed the need for evaluation and changes, including whether to continue funding Stryker Equipment to be placed on agenda of next Committee meeting.

9. **For Discussion:** Discussion of whether Pool/Pact should provide funding to members to address costs associated with software limited to enhanced cyber security. Currently, the only software grants accepted are dispatch software for law enforcement, fire, and EMS.

Mike Rebaleati explained that cyber security threats and data security can be achieved primarily through software. Further discussion relating to allowing cyber security related software will be placed on the next agenda for further discussion and possible action.

10. **For Discussion:** Discussion of whether LCC staff should work with Mike Van Houten to write and produce ELearning course regarding Nevada Heart/Lung requirements for fire and law enforcement agencies to use as training and clarification. NAC 617.080-090, NRS 617.455-457.

Staff presented information to the Committee regarding the need to provide more information to fire and law enforcement members relating to the policies, benefits, and application of Nevada's Heart/Lung statutory requirements. The Committee requested that additional information be presented to the Committee during the next meeting for discussion and possible action, including a draft ELearning course.

11. **For Discussion:** Discussion of whether Pool/Pact should offer to pay membership dues to the Sierra Nevada Chapter of the American Association of Safety Engineers, a national organization designed to promote the growth and the development of the safety professional. Currently there are chapters in Carson, Churchill, Douglas, Elko, Eureka, and Humboldt, Lander, Lyon, Mineral, Pershing, Storey, and Washoe counties. Annual dues are approximately \$175.00 per member. Pool/Pact Currently covers PRIMA membership at a cost of approximately \$385.00 per year per member.

Ann Wiswell provided information to the Committee regarding the benefits of supporting the Sierra Chapter of the ASSE. The matter will be put on the next agenda for discussion and possible action.

- 12. For Discussion:** Discussion of whether Pool/Pact should host Rural Domestic Preparedness Consortium (RDPC): Crisis Management for School-Based Incidents – Partnering Rural Law Enforcement, First Responders, and Local School Systems course (8 Hours). There is no charge - requires only providing adequate site location. Requires minimum of 20 participants.

Staff provided an overview of the RDPC programs and possible benefits to members in conjunction with Safe School Operation training.

- 13. For Discussion:** Review of Risk Management Grants approved and/or funded since September 1, 2016:
 - a. Educational Grants..... Est. \$ 24,117.70
 - b. RM Grants of less than \$10,000.... Est. \$ 18,168.10
 - c. RM Grants more than \$10,000..... Est. \$ 338,629.47

The Committee will continue to review, discuss, and consider restructuring the Risk Management Grant Program at the next regular Committee meeting in connection with agenda item 8.

- 14. For Possible Action:** At the December 9, 2016 LCC meeting Mike Rebaleati reviewed the Loss Control Excellence Program. Mike indicated that there has been a reduction in the number of members who have participated in the LCEP and perhaps increasing the award amounts may be in order. He also related that Pat Irwin had provided an outline for developing procedures relating to a Loss Control Excellence Program for volunteer fire departments. A motion was made to place the information for developing a LCEP for volunteer fire departments on the next meeting’s agenda. The motion was seconded and approved.

The Committee discussed whether a program should be a component of the overall member LCEP. On motion and second to table establishing a sub-entity LCEP competent, the motion carried.

- 15. For Possible Action:** Discussion and consideration of whether the LCC wants to present and sponsor a Risk Management seminar in 2017.

The Committee discussed the numerous other risk management and related trainings sponsored by Pool/Pact, and on motion and second a decision was made not to sponsor a Risk Management Seminar in 2017, the motion carried.

- 16. For Possible Action:** Consideration and approval of offering additional (2) Risk Management Educational Grants to member school districts for attendance at International Safety School Safety Institute Conference: October 11-12, 2017. The cost to Pool/Pact members is \$450 for the three day conference.

The Committee discussed whether the two additional grants should be identified as “scholarships” instead of grants for administrative and accounting reasons. On motion and second, two additional scholarships would be made available to each member to attend the conference, the motion carried.

17. For Possible Action: Consideration and approval of Risk Management Grant Application submitted by Mineral County (Sheriff's Office) for replacement of dumb-waiter. Total: \$24,850, PP: \$18,638; Member: \$6,212. (Note: Sheriff Adams and Undersheriff Ferguson will be present to address the Loss Control Committee).

Sheriff Adams and Undersheriff Ferguson presented information in support of the need for replacement of the dumb-waiter and informed the Committee that future maintenance and inspection costs would be borne by Mineral County. After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$18,638.00.

18. For Possible Action: Consideration and approval of Risk Management Grant Application submitted by Mineral County (Parks and Recreation) for swimming pool electrical retrofit, grounding, and bonding. Total: \$39,000; PP: \$29,250, Member: Mineral County: \$5,750, Parks and Recreation (PIK): \$1,000, Hawthorne Public Utilities (PIK) \$4,000.

After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$29,250.00

19. For Possible Action: Consideration and approval of Risk Management Grant Application submitted by East Fork FPD for (2) Stryker PowerLoads. Total: \$42,606.00; PP: \$31,954.50; Member: \$10,651.50.

After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$31,954.50. One member voted nay, Bob Spellberg abstained.

20. For Possible Action: Consideration and approval of Risk Management Grant Application submitted by Eureka County for Cyber Security Software. Total: \$16,351.90; PP: \$12,263.93; Member Amount: Cash \$2,736.08 and PIK: \$1,351.90.

After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$12,263.93.

21. For Possible Action: Consideration and approval of Risk Management Grant Application submitted by Eureka County for (1) PowerCot and (1) PowerLoad. Total \$37,752.16; PP: \$28,314.12, Member Amount: \$9,438.04.

After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$28,314.12. One member voted nay.

22. For Possible Action: Consideration and approval of Risk Management Grant Application submitted by Mason Valley Fire Protection District for Stryker (1) PowerLoad and (1) PowerCot. Total \$: \$37,392; PP: \$28,044; Member: \$9,348.

After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$28,044.00. One member voted nay.

23. For Possible Action: Consideration and approval of Risk Management Grant Application submitted by Carson City School District for Security Cameras. Total: \$666,440.88; PP: \$119,000; Member Amount: \$547,000.

Ann Wiswell presented additional information relating to this grant application. She indicated that she confirmed with the District will bear all upkeep and future costs and the District would not apply for a risk management grant for three years. After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$119,000.00. Ann Wiswell abstained from this vote.

- 24. For Possible Action:** Consideration and approval of Risk Management Grant Application submitted by North Lyon County Fire Protection District for Emergency Dispatch software (Spillman). Total: \$62,917; PP: 50,333.60, Member: \$15,729.25 (\$3,932.30 from Lyon, Mason, Central, and Smith Valley).

After discussion, a motion was made to table the item to allow North Lyon County Fire Protection District to present additional information at the next Loss Control Committee meeting. The motion was seconded and approved.

- 25. For Possible Action:** Consideration and approval of Risk Management Grant Application submitted by Pahrangat Valley Fire Protection District for Stryker (1) PowerLoad (1) PowerCot, (1) Chair System. Total: \$43,143; PP: \$32,357.25; Member; \$10,785.75.

After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$32,357.25. One member voted nay.

- 26. For Possible Action:** Consideration and approval of Risk Management Grant Application submitted by Smith Valley Fire Protection District for (1) PowerLoad. Total: \$24,215.16; PP: \$18,161.37; Member: \$6,053.79.

After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$18,161.37. One member voted nay.

- 27. For Possible Action:** Consideration and approval of Risk Management Grant Application submitted by Tahoe Fire Protection District for Stryker (1) PowerLoad. Total: \$35,242; PP: \$26,431.50; Member: \$8,810.50.

After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$26,431.50. One member voted nay.

- 28. For Possible Action:** Consideration and approval of Risk Management Grant Application submitted by Town of Tonopah for replacement of municipal park playground equipment. Total: \$103,969.00; PP: \$77,976.80; Member: \$25,992.26.

After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$77,976.80.

- 29. For Possible Action:** Consideration and approval of Risk Management Grant Application submitted by Town of Pahrump for Stryker (4) PowerPro Cots. Total: \$93,396; PP: \$70,047; Member: \$23,349.

After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$70,047.00. Two members voted nay.

- 30. For Possible Action:** Consideration and approval of Risk Management Grant Application submitted by Washoe County Fire Suppression for Stryker (1) PowerPro. Total: \$37,162.00; PP: \$27,871.50; Member: \$9,290.50.

After discussion a motion was made, seconded, and approved for Pool/Pact funding in the amount of \$27,871.50. One member voted nay.

- 31. For Possible Action: Adjournment**

After discussion a motion was made, seconded, and approved.

These Minutes were was posted at the following locations and at notice.nv.gov:

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201 S. Roop Street, Suite 102
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885 E. Musser Street
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END OF ITEM 4



NEW INJURY 24/7/365 CHECK LIST

Always call 911 first for any potential life-threatening situations. Potentially life-threatening situations include, but are not limited to:

- Choking
- Unconscious or disoriented
- Severe bleeding
- Off-balance, unable to walk
- Hot, dry skin
- Seizure or convulsions
- Difficulty breathing
- Chest pain or discomfort
- Profuse sweating
- Severe abdominal pain
- **Any other problem you feel may be an emergency!**

Step 1: Complete the C1 with the injured worker

Step 2: Make the call to initiate the triage process - 800-xxx-xxxx

Step 3: If directed by 24/7/365 nurse, send injured worker for treatment with a copy of the C-1 and the First Fill Form.



24/7/365 Telephonic Pre-Claim Triage

Telephonic Pre-Claim Triage User Guidebook

Phone 800-xxx-xxxx



P.A.C.T.
(Public Agency
Compensation Trust)

ASC
(Alternative
Service Concepts)



The Pre-Claim Triage Call Process – How it Works

Note that this service is only for employees who are injured at work, and should not be used for clients or customers of your organization. SpecialtyHealth's triage line provides triage suitable for most injuries, but is not a 911 system for life-threatening situations.

When Employee injury occurs: The injured employee should immediately contact the supervisor.

Always call 911 first for any potential life-threatening situations. Potentially life-threatening situations include, but are not limited to:

- Choking
- Unconscious or disoriented
- Severe bleeding
- Off-balance, unable to walk
- Hot, dry skin
- Seizure or convulsions
- Difficulty breathing
- Chest pain or discomfort
- Profuse sweating
- Severe abdominal pain
- **Any other problem you feel may be an emergency!**

How it Works

Step 1: Complete the C1 with the injured worker

Step 2: Make the Call

The supervisory and injured employee should place the call together, dialing the toll-free number listed on the front cover of this guidebook. To be most beneficial, the call should be made as soon as possible, after the injury occurs.

Callers are connected with a nurse. Most of the time, a nurse is available immediately with no waiting. In rare instances, a caller may have to wait for a few minutes because all nurses are busy with other callers. If this happens, the caller has the option to remain holding or to leave a voicemail message. Please provide the following information:

- Your name
- The name of the company you are calling from
- The injured employee's name
- The type of injury
- A phone number with the area code and extension where the injured worker can be reached
- **NOTE: If the injury appears severe, call 911 immediately! DO NOT wait on hold for a Triage nurse.**

Step 3: Initiate the Triage Process

A nurse will answer the call and speak with the supervisor first, then privately with the injured employee. Following specially-designed protocols, the nurse will determine the seriousness and nature of the injury, and recommend the best way to address it. The nurse can access interpreters to assist with over 200 languages when necessary. Depending on the situation, the employee may be guided in first aid ("self-care") or may be referred off-site to a designated medical facility for further evaluation or treatment.

Step 4: Receive Treatment Recommendations

If the injured worker can safely return to work, the nurse will provide first aid (“self-care”) instructions to the employee. Self-care instructions may be faxed or emailed to the employee/supervisor at the conclusion of the call. During the call, the nurse may determine that the employee should be referred off-site for further evaluation or treatment. If a referral for off-site treatment is made, the nurse will encourage the employee to go to a designated medical facility in the area, which has been pre-selected by SpecialtyHealth and your employer. After the nurse provides the treatment recommendation to the injured worker, they will ask to speak to the supervisor to conclude the call.

Step 5: Finish the Call

At the conclusion of the call, the nurse will speak with the supervisor again to explain any first aid recommendations or confirm recommendation for offsite treatment. Upon call completion SpecialtyHealth reporting system will send a custom incident report to the appropriate designated recipients.

Injured workers are encouraged to call back with any questions, changes in condition, or concerns – a call confirmation number will be provided at the conclusion of the first call and should be referenced during subsequent calls. SpecialtyHealth’s telephone pre-claim trial line is available 24 hours a day, seven days a week.

Step 5: If directed by 24/7/365 nurse, send injured worker for treatment with a copy of the C-1 and the First Fill Form.

Frequently Asked Questions

1. What is the average length of a call to SpecialtyHealth's 24/7 Pre-Claim Triage Line?

The average call is 18-20 minutes, including the introductory recording.

2. How is your call center staffed?

The call center is staffed with registered nurses 24 hours a day, seven days a week, under the direction of SpecialtyHealth's full-time medical director. The SpecialtyHealth Triage medical director is board certified in emergency medicine.

3. Do your nurses speak any other language besides English?

If a language barrier exists, a translation service is quickly brought into the call. Over 200 languages are available.

4. If a referral recommendation is made to a designated medical facility, what information do employees need to take with them?

The supervisor should provide the employee with a copy of the C-1 and the First Fill Pharmacy form. The nurse will automatically fax an injury alert form to the designated clinic prior to the injured employee's arrival, providing we have been given one during account set up.

5. What do we do if the injured employee is a minor?

Each employer should follow its own procedures for managing injured employees who are minors. SpecialtyHealth does not require parental consent for triage, but medical providers at off-site facilities may require parental consent before treating employees who are minors.

6. Are the calls recorded?

Calls are digitally recorded for quality assurance and to accurately document the facts of the injury. Callers are notified that the call is recorded and they consent to the recording by participating in the call.

7. Is the service available for non-work-related injuries?

No, you should follow your company guidelines for non-work injuries.

8. Should we call SpecialtyHealth Pre-Claim Triage Line if a guest is injured at our location?

No, you should follow your company guidelines if a guest is injured at your location.

9. Should I call SpecialtyHealth Pre-Claim Triage Line with billing, payment, insurance, or authorization questions?

No, SpecialtyHealth is not able to answer these types of questions. Please follow your organization guidelines.

First Fill Information Specialty Health PACT



Dear Injured Worker,

Cypress Care has been selected by PACT to assist you in obtaining prescription drugs related to your workers' compensation claim. This form enables you to fill prescriptions written by your authorized workers' compensation physician for medications related to your injury. Simply **fill in the form below** and present it at the pharmacy at the time your prescription is filled. This form should ensure that you will have no out-of-pocket expenses when you fill your first prescription.

For your convenience, Cypress Care has an extensive network of retail pharmacies including major chain drug stores.

For pharmacy locations, you may call our toll-free number or visit our website at www.cypresscare.com and use the pharmacy locator in the quick links section of the home page.

If you have any questions, or would like to learn about our convenient home delivery service, please call our customer

Estimado Trabajador(a) Lesionado(a),

Cypress Care ha sido seleccionado por PACT para asistirle en la obtención de medicamentos relacionados con su reclamo de compensación de trabajadores. Este formulario le permite completar las prescripciones escritas por el médico de sus empleados autorizados de compensación para los medicamentos relacionados con su lesión. Simplemente **llene el siguiente formulario** y preséntelo en la farmacia en el momento que su prescripción está lleno. Este formulario debe asegurarse de que usted no tendrá gastos de su propio bolsillo cuando surte su primera receta.

Para su comodidad, Cypress Care cuenta con una extensa red de farmacias al por menor. De la red de farmacias Cypress Care incluye las siguientes principales cadena de farmacias:

Para localidades de Farmacia adicional, también puede llamar a nuestro número gratuito o visite nuestro sitio web en www.cypresscare.com y usar el localizador de farmacias en la sección de enlaces rápidos de la página de inicio.

Si usted tiene alguna pregunta, o le gustaría aprender acerca de nuestro conveniente servicio al domicilio, llame a nuestro número gratuito de servicio al cliente: 800.419.7191.

First Fill Form: Complete and take to your pharmacy

Bin #: 010876 Group Number: SPECHLTHFF

Member ID:

Last 4 digits of SSN + date of injury; No spaces (i.e. 9999050206)

Member Name:

Injured worker's first & last name

Employer Name:

Date of Injury:

Pharmacy Help Desk: 800.419.7191

PLEASE NOTE: This form allows you to fill your initial prescriptions with a cost maximum of \$100 per prescription and no more than a 7-day supply per prescription. Once your claim has been reviewed, you will be sent a new card in the mail. If you do not receive the pharmacy card, please call us at 800.419.7191.

Issuance of this letter does not constitute acceptance of your claim.

"NOTICE OF INJURY OR OCCUPATIONAL DISEASE"

(Incident Report)

Pursuant to NRS 616C.015

Name of Employer _____

Name of Employee		Social Security Number		Telephone Number	
Date of Accident (if applicable)	Time of Accident (if applicable)	Place where accident occurred (if applicable)			
What is the nature of the injury or occupational disease?			List any body parts involved:		
Briefly describe accident or circumstances of occupational disease: (Note: if you are claiming an occupational disease, indicate the date on which employee first became aware of connection between condition and employment)					
Names of witnesses:					
Did the employee leave work because of the injury or occupational disease?		If yes, when (date and time)?		Has the employee returned to work?	
<input type="checkbox"/> YES <input type="checkbox"/> NO				<input type="checkbox"/> YES <input type="checkbox"/> NO	
Was first aid provided?		If yes, by whom?		Name and address of treating physician, if applicable or known	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
Did the accident happen in the normal course of work? (if applicable)					
<input type="checkbox"/> YES <input type="checkbox"/> NO					
Was anyone else involved?			Names of others involved		
<input type="checkbox"/> YES <input type="checkbox"/> NO					

MY EMPLOYER/INSURER MAY HAVE MADE ARRANGEMENTS TO DIRECT ME TO A HEALTH CARE PROVIDER FOR MEDICAL TREATMENT OF MY INDUSTRIAL INJURY OR OCCUPATIONAL DISEASE. I HAVE BEEN NOTIFIED OF THESE ARRANGEMENTS.

Supervisor's Signature

Date

Signature of Injured or Disabled Employee

Date

TO FILE A CLAIM FOR COMPENSATION, SEE REVERSE SIDE, SECTION ENTITLED, CLAIM FOR COMPENSATION (FORM C-4).

For assistance with Workers' Compensation Issues you may contact the Office of the Governor Consumer Health Assistance Toll Free: 1-888-333-1597 Web site: <http://govcha.state.nv.us> E-mail cha@govcha.state.nv.us

Employee should sign, date and retain a copy.
Original to Employer, Copy to Employee

Member Name _____ ID# _____

Insurer:


P.A.C.T. (Public Agency Compensation Trust)

Logo

Workers' Compensation Administrator (TPA):

ASC (Alternative Service Concepts)
639 Isbell Road, #390, Reno, NV 89509
775-329-1181
775-329-7418 FAX

Logo

SpecialtyHealth MCO (Mgd Care Organization)  SpecialtyHealth

330 E. Liberty, #200, Reno, NV 89501
775-398-3624
775-398-3680

What to do if I am injured on the job ...

1. Report immediately to your supervisor.
2. Complete C-1 form (1st report of injury form) with your supervisor.
3. Contact SpecialtyHealth 24/7/365 nurse HOTLINE with your supervisor.
4. See physician, if directed. Take your C01 and pharmacy 1st fill form with you.

Pharmacy thru OptumRx 800-419-7191

END OF ITEM 5



TARGETSOLUTIONS
Technology with a Purpose

**FIRE & EMS
ONLINE COURSE CATALOG**



Preparation is vital in keeping firefighters effective and safe. That's why TargetSolutions is committed to building innovative solutions that increase productivity for the fire service.



ONLINE COURSE CATALOG :: TABLE OF CONTENTS

TargetSolutions' online course catalog delivers more than 250 hours of Fire & EMS recertification courses for emergency responders that have met stringent accreditation standards. Courses are based on the NFPA codes and standards, including NFPA 1001, 1021 and the 1500 Series. Courses allow first responders, EMT-Basics, EMT-Intermediates and EMT-Paramedics to complete their continuing education in an engaging format.

FIRE	3	OSHA & COMPLIANCE	6
NFPA 1001 Series Firefighter I & II	3	Occupational Health & Safety	6
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NFPA 1500 Series	3	HUMAN RESOURCES	7
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FIRE

TargetSolutions' course catalog delivers more than 250 hours of recertification courses for emergency responders. Courses based on the NFPA codes and standards, including NFPA 1001, 1021 and the 1500 Series. Courses also cover wildland fire, response to terrorism and much more.

NFPA 1001 SERIES | FIREFIGHTER I & II

TargetSolutions has a complete library of Firefighter I & II awareness and refresher level courses based on NFPA codes and standards.

- Building Construction
- Fire Behavior
- Fire Control
- Fire Department Communications
- Fire Detection, Alarm & Suppression Systems
- Fire Hose
- Fire Prevention and Public Education
- Fire Streams
- Firefighter Orientation and Safety
- Firefighter Personal Protective Equipment
- Firefighting Foams
- Forcible Entry into a Structure
- Ground Ladders
- Loss Control
- Portable Extinguishers
- Protection of Evidence of Fire Origin & Cause
- Rescue and Extrication
- Self-Contained Breathing Apparatus
- Vehicle Extrication
- Ventilation
- Water Supply

NFPA 1021 SERIES | COMPANY OFFICER

TargetSolutions has developed a complete line of company officer awareness and refresher level courses based on NFPA codes and standards.

- Action Plan Implementation
- Assuming the Role of Company Officer
- Budgeting
- Community Awareness
- Company-Level Training
- Elements of Supervision and Management
- Fire and Life Safety Inspections
- Fire Department Communications
- Fire Department Structure
- Fire Investigation
- Firefighter Safety and Health
- Government Structure
- Incident Response Safety

- Incident Scene Communications
- Incident Scene Management
- Information Management
- Labor Relations
- Leadership as a Group Influence
- Legal Responsibilities and Liabilities
- Pre-Incident Planning
- Professional Ethics
- Public Education Programs

NFPA 1500 SERIES

This series of courses is designed specifically for the fire industry and meets the NFPA 1500 code requirements. These courses were developed in conjunction with the NFPA, and specific content experts at the NFPA participated in their creation.

- Advanced HAZWOPER Awareness (Modules 1–4)
- Bloodborne Pathogens Safety
- Combustible & Flammable Liquids
- Compressed Gas Safety
- Confined Space Entry
- CPR Academic
- Driving Safety
- HAZMAT Spill Prevention & Control
- HAZMAT Transportation
- Laboratory Safety
- Materials Handling, Storage, Use & Disposal
- Personal Protective Equipment
- Respiratory Protection
- Right to Know (Hazard Communication)
- Welding Safety

GENERAL

- Customer Service for Fire Department Personnel
- Emergency Response to Terrorism (Modules 1–4)
- Fire & EMS Grant Writing
- Fire Industry Driver Intersection Safety
- Fire Industry Driver Operator
- Fire Industry Introduction to Wildland Fire Behavior
- First Responder Hybrid Vehicle Incidents
- First Responder Operations Level Refresher (Modules 1–4)
- Firefighter Rehabilitation (Modules 1 and 2)
- NFPA 1403 Live Fire Training Evolutions
- NFPA 1584 Firefighter Rehabilitation

WILDLAND FIREFIGHTING

- RT-130 Annual Wildland Fire Safety Refresher (Modules 1–4)
- S-190 Introduction to Wildland Fire Behavior (Modules 1–4)

EMERGENCY MEDICAL SERVICES

TargetSolutions offers a comprehensive catalog of online EMS continuing education courses that is accepted in most states. Our courses allow first responders, EMT-Basics, EMT-Intermediates and EMT-Paramedics to complete their continuing education requirements in an engaging and easy-to-use format.

PREPARATORY

- Clinical Decision-Making
- Common Infectious Pathogens
- Communication and Documentation
- Cultural Diversity for EMS Providers
- Diet & Nutrition
- Health & Wellness
- HIPAA Awareness
- Infectious Disease Control
- Medical, Ethical, and Legal Issues
- Protecting Yourself from Influenza
- Therapeutic Communications
- Workplace Stress

AIRWAY

- Advanced Airways: Intubation and Beyond (2 hours)
- Airway Management Advanced (2 hours)
- Airway Management Basic
- Blind Nasotracheal Intubation
- Capnography
- Mechanics of Breathing
- Orotracheal Intubation
- Respiratory System A&P Review
- Suctioning the Patient Airway
- Supplemental Oxygen
- Tracheostomies Advanced

PATIENT ASSESSMENT

- Assessing the Patient with Major Trauma
- Patient Assessment Advanced
- Patient Assessment Basic
- Rapid Secondary Assessment
- Special Challenges in Patient Assessment

MEDICAL

- Acute Respiratory Distress Syndrome Advanced
- Allergies and Anaphylaxis Advanced
- Allergies and Anaphylaxis Basic
- Altered Mental Status Advanced
- Altitude Emergencies
- Aquatic Emergencies
- Asthma Advanced

- Behavioral Emergencies Advanced
- Behavioral Emergencies Basic
- Carbon Monoxide Poisoning
- Cardiac Emergencies Advanced
- Cardiac Emergencies Basic
- Cardiovascular Anatomy & Physiology Review
- Complete Resuscitation: Integrating Post-Care Advanced
- Date Rape Drugs
- Diabetic Ketoacidosis Advanced
- Endocrine System Emergencies Advanced
- Epilepsy
- Fundamentals of 12 Lead ECG Operation and Interpretation
- H1N1 (Swine Flu)
- Heat Illness and Emergencies
- Hematology
- HIV/AIDS Awareness
- Intraosseous Infusion Advanced
- Intro to Arrhythmias: Escape Rhythms and Premature Complexes
- Intro to Arrhythmias: Tachy-arrhythmias and Fibrillation
- Managing Cardiac Arrest: During and After Resuscitation
- Medication Errors
- Methamphetamine
- MRSA Infections
- Non-Traumatic Abdominal Injuries
- Non-Traumatic Chest Pain
- Obstetrical Emergencies Advanced (2 hours)
- Operating an AED
- Pharmacology Advanced
- Pharmacology Basic
- Poisoning and Overdose
- Prehospital Pulmonary Embolism Care
- Renal Failure Advanced
- Respiratory Emergencies Advanced
- Respiratory Emergencies Basic
- Toxicology and Substance Abuse Advanced
- Understanding the Basics of ECGs

TRAUMA

- Abdominal Trauma Advanced
- Abdominal Trauma Basic
- Amputation Injuries Advanced
- Bleeding and Shock Advanced
- Bleeding and Shock Basic
- Bomb Blast Injuries Advanced
- Burn Management Advanced
- Burn Management Basic
- CNS Injuries Advanced
- CNS Injuries Basic
- Environmental Emergencies Advanced
- Environmental Emergencies Basic
- Femur Fractures

- Gunshot Wounds
- Head and Facial Injuries Advanced
- Injuries and Infections of the Eye
- Kinematics of Trauma
- Musculoskeletal Injuries Advanced
- Musculoskeletal Injuries Basic
- Pelvic Fractures Advanced
- Spinal Cord Injuries
- Thoracic Emergencies Advanced
- Thoracic Emergencies Basic
- Traumatic Head and Brain Injuries Advanced
- Traumatic Injury During Pregnancy

SPECIAL CONSIDERATIONS

- Bariatric Patients
- Geriatric Behavioral Emergencies
- Geriatric Emergencies Advanced
- Geriatric Emergencies Basic
- Geriatric Hip Injuries
- Managing Chronic Care Patients
- Neonatology Advanced
- Obstetrical Emergencies Advanced (2 hour)
- Obstetrical Emergencies Basic
- Patient Abuse and Assault
- Patients with Special Challenges
- Pediatric Airway Management Advanced
- Pediatric Assessment
- Pediatric Burns Advanced
- Pediatric Cardiac Arrest Advanced
- Pediatric Emergencies Advanced
- Pediatric Emergencies Basic
- Pediatric Shock Advanced (2 hours)
- Pediatric Trauma Advanced
- Sudden Infant Death Syndrome (SIDS)

OPERATIONS

- Back Injury Prevention
- Confined-Space Entry
- Crime Scene Awareness
- Driving Safety
- Emergency Response to Terrorism (Modules 1–4)
- Fire & EMS Grant Writing
- First Responder Operations Level Refresher (Modules 1–4)
- Introduction to Hazardous Materials
- Managing Multiple Casualty Incidents
- Medical Extrication & Rescue
- Right to Know (Hazard Communication)

ADDITIONAL COURSES

- AHA HeartCode ACLS
- AHA HeartCode BLS
- AHA HeartCode PALS

OSHA & COMPLIANCE

TargetSolutions' online courses can be used to help comply with OSHA and other federal and state regulatory agency training mandates. Complete all of your required compliance training courses online, eliminating the logistic issues inherent in traditional training methods. OSHA & Compliance courses cover the following categories: General Safety, Environmental Awareness, Human Resources and supervisor-related course topics.

OCCUPATIONAL HEALTH & SAFETY

- Advanced Construction Safety (Modules 1-4)
- Aerosol Transmissible Diseases
- Alcohol-Free Workplace
- Asbestos Awareness
- Back Injury Prevention
- Building Evacuation and Emergencies
- Diet & Nutrition
- Disaster Preparedness
- Drug-Free Workplace
- Electrical Safety
- Eye Safety
- Fall Protection
- Fire Extinguisher Safety
- Fire Prevention Safety
- First Responder Operations Level Refresher (Modules 1-4)
- Forklift Safety
- General Construction Safety
- General First Aid Part 1
- General First Aid Part 2
- General Office Ergonomics
- Hand & Power Tool Safety
- Health & Wellness
- Hearing Conservation
- HIV/AIDS Awareness
- Incident Investigation
- Indoor Air Quality
- Industrial Ergonomics
- Ladder & Scaffolding Safety
- Laser Safety
- Lead Awareness
- Lock-Out / Tag-Out
- Machine Guarding
- Office Safety
- Radiation Safety
- Risk Assessment Analysis
- Slips, Trips, & Falls Prevention
- Trenching & Shoring
- Working in Extreme Temperatures
- Workplace Stress
- Workplace Violence

COMPLIANCE

- Cal/OSHA Log 300
- General HIPAA Awareness
- Sexual Harassment Awareness
- Workplace Diversity

HUMAN RESOURCES

TargetSolutions' Human Resources courses are designed to supplement the course catalog by providing training that is relevant and essential to all employees. Courses covering Employment Practices for Supervisors cover issues encountered in the workplace for individuals tasked with making employment decisions, including issues of harassment, hiring and termination, discrimination, evaluation and documentation.

HUMAN RESOURCES

- Alcohol-Free Workplace
- Computer Security Awareness
- Customer Service
- Drug-Free Workplace
- Ethics in the Workplace
- General HIPAA Awareness
- General Office Ergonomics
- Health & Wellness
- Office Safety
- Red Flag Rules (Identity Theft Protection)
- Sexual Harassment Awareness
- Workplace Diversity
- Workplace Stress
- Workplace Violence

EMPLOYMENT PRACTICES FOR SUPERVISORS

- Anger, Violence, and Conflict in the Workplace
- Dealing with Issues of Alcohol and Substance Abuse
- Discipline and Termination
- Employment Practices Overview
- Interviewing and Hiring
- Performance Management
- Preventing Discrimination in the Workplace
- Reasonable Suspicion of Alcohol for Supervisors
- Reasonable Suspicion of Drugs for Supervisors
- Understanding Employee Leave
- Motor Vehicle Incident Investigation for Supervisors
- Motor Vehicle Personnel Selection for Supervisors
- Motor Vehicle Safety Overview for Supervisors
- Sexual Harassment for Supervisors

CALIFORNIA STATE MANDATED TRAINING

- CA Local Agency Ethics (AB 1234)
- Cal/OSHA Log 300
- Sexual Harassment for Supervisors (California AB 1825)

EMERGENCY VEHICLE OPERATOR TRAINING

TargetSolutions' Emergency Vehicle Operator courses offer departments a convenient, easy-to-use, and time-saving solution to reduce motor vehicle losses, one of the costliest but least addressed losses in the workplace.

DRIVER CURRICULUM

- Accidents & Emergencies for Emergency Vehicle Operators
- Adjusting to Changing Conditions for Emergency Vehicle Operators
- Dangers of Speeding for Emergency Vehicle Operators
- Defensive Driving Strategies for Emergency Vehicle Operators
- Distracted Driving for Emergency Vehicle Operators
- Driver Safety Orientation for Emergency Vehicle Operators
- Emergency Vehicle Characteristics
- Emergency Vehicle Operations
- Impaired Driving for Emergency Vehicle Operators
- Intersection Safety for Emergency Vehicle Operators
- Legal Considerations for Emergency Vehicle Operators
- Safe Backing for Emergency Vehicle Operators
- Seat Belt & Airbag Safety for Emergency Vehicle Operators
- Securing Materials for Transportation for Emergency Vehicle Operators



**Preparation is vital in keeping firefighters effective and safe.
That's why TargetSolutions is committed to building innovative
solutions that increase productivity for the fire service.**

TARGETSOLUTIONS
Technology with a Purpose



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ARFF: ADAPTING AND USING STRUCTURAL EQUIPMENT

Airport firefighters need to be able to adapt structural fire and rescue equipment for the airport crash/fire/rescue application. This course lists the firefighting tools and equipment used for aircraft emergencies, and identifies procedures used by fire departments to adapt structural fire-fighting equipment for aircraft rescue and firefighting.

Course Duration: 1 hour(s)

Audience: ARFF firefighter/rescue personnel

Prerequisite: None

Regulatory Reference: Federal Aviation Regulation FAR 139.319 (j)

ARFF: AIRCRAFT CARGO HAZARDS, PART I

Les Omans from the ARFF Working Group begins a two-part look at aircraft cargo hazards. In this course, he takes us to the cargo facilities of Airborne Express and Federal Express to look at loading and entering a cargo plane and the hazards that may be found there.

Course Duration: 1 hour(s)

Audience: Aircraft Rescue Firefighters

Prerequisite: None

Regulatory Reference: FAR 139.319 (j); FAR Advisory Circular AC-150/5210-17

ARFF: AIRCRAFT CARGO HAZARDS, PART II

In this course on aircraft cargo hazards, Les Omans looks at the labeling and packaging of hazardous materials. This important lesson includes information on the loading of packages into the cargo plane, as well as how to read packaging slips and labeling codes.

Course Duration: 0.5 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: None

Regulatory Reference: FAR 139.319 (j); FAR Advisory Circular AC-150/5210-17

ARFF: AIRCRAFT FAMILIARIZATION

In this course, we'll tour a typical narrow-bodied commercial jet aircraft. We'll identify on-board hazards, and demonstrate how to open all doors and compartments.

Course Duration: 0.5 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: None

Regulatory Reference: CFR 139.319(j)ii



ARFF: AIRCRAFT RESCUE – EMERGENCY COMMUNICATIONS

Get ready for a lesson on the phonetic alphabet and aircraft hand signals. These are just two of the training points presented in this ARFF course as instructors cover communication systems necessary for aircraft rescue. Also covered are the requirements of section 4 on emergency communications systems at an airport, in the FAA's requirements for certified airports, part 139.319(j).

Course Duration: 0.5 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: None

Regulatory Reference: FAR 139.319 (j)

ARFF: AIRPORT RESCUE AND FIREFIGHTING OPS

In this lesson, ARFF personnel will get specific training on incident control strategies and tactics. Watch as actual aircraft emergencies are highlighted and then "You Make the Call" for the various emergency scenarios.

Course Duration: 0.5 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: None

Regulatory Reference: FAR 139.319 (j)

ARFF: APPLICATION OF EXTINGUISHING AGENTS, PART 1

Les Omans of the ARFF working group begins a four-part look at the application of extinguishing agents. In this first course, he'll cover the types of fuels associated with aircraft rescue and firefighting. Users will learn the common mistakes in the application and use of foam agents; the types and properties of aviation fuel; and the types and properties of polar solvents.

Course Duration: 1 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: No prior knowledge is required.

Regulatory Reference: CFR, Part 139.319 (j) vi

ARFF: APPLICATION OF EXTINGUISHING AGENTS, PART 2

In the second of four courses on the application of extinguishing agents, Les Omans discusses and demonstrates the types and properties of fuel used in the aviation industry. This discussion and demonstration includes flash point, explosive limits, vapor density, specific gravity, and wicking, and defines flammable and combustible liquids.

Course Duration: 1 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: No prior knowledge is required.

Regulatory Reference: CFR, Part 139.319 (j) vi



ARFF: APPLICATION OF EXTINGUISHING AGENTS, PART 3

In the third of four courses on the application of extinguishing agents, green foam is one of the tricks Les Omans has up his sleeve. Additional topics include mechanical foams and proportioning for crash fire rescue; extinguishing properties of each agent; quantity of each type of agent kept in inventory for vehicle resupply; and the preferred agents to be used in hydrocarbon fuel and polar solvent fires.

Course Duration: 1 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: No prior knowledge is required.

Regulatory Reference: CFR Part 139.319 (j) vi

ARFF: APPLICATION OF EXTINGUISHING AGENTS, PART 4

Foam is the agent most used by rescue personnel during aircraft rescue and firefighting. In the last of four courses on application of extinguishing agents, Les Omans demonstrates foam drain out and gives examples of the different types of extinguishing agents. Other topics covered include extinguishing properties of each agent, the advantages, and disadvantages of the foam-aspirating nozzle, and Haz-Mat foam.

Course Duration: 1 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: No prior knowledge is required.

Regulatory Reference: CFR, Part 139.319 (j) vi

ARFF: AVIATION INCIDENT RESPONSE/CRASH RESCUE MANAGEMENT

In this course, we highlight two departments who discovered the realities of crash rescue management (CRM). Exactly one month after Sept. 11, 2001, New York City was hit with another aircraft tragedy. A passenger jet crashed into a Queens's neighborhood, destroying homes and taking lives. This course presents firsthand accounts from FDNY firefighters about the operational and emotional challenges they faced throughout this incident. We also visit the Charlotte (NC) Fire Department and learn from their experience in responding to the plane crash incident at the Charlotte-Douglas Airport on Jan. 7, 2003.

Course Duration: 1 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: None

Regulatory Reference: NFPA 402; NFPA 403; NFPA 424



ARFF: COMMAND AND CONTROL OF AIRCRAFT INCIDENTS

Large plane crash incidents are usually multi-agency, multi-jurisdictional operations. Join Capt. Bob Hilvers as he discusses Incident Command and the need for specific incident command practices at aircraft crash rescues. This course is an update of an earlier course, revised to comply with new FAA regulations (CFR139).

Course Duration: 0.5 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: None

Regulatory Reference: FAR 139.319 (j) XI; FAR AC 150-5200-31A; NFPA 403; NFPA 424

ARFF: EMERGENCY AIRCRAFT EVACUATION

One of the primary definitions of rescue operations for airport firefighters is to maintain a habitable environment around the fuselage and to assist with aircraft evacuation by stabilizing slide chutes and controlling the evacuees. Firefighters shall become familiar with FAA Advisory Circular AC-150/5210-7C that refers to communications between the Incident Commander and the aircraft flight deck.

FETN & rsquos; Aircraft Fire Rescue Training series continues with a look at the emergency aircraft evacuation assistance provided by crews of air carriers. This course examines aircraft emergencies from the perspective of the pilot and crew.

Course Duration: 0.5 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: None

Regulatory Reference: FAR AC 150/5210-7C; FAR AC 150/5210/17; NFPA 1003; NFPA 402; NFPA 403

ARFF: OUT OF THE BLUE

Aircraft incidents are rare events. Many firefighters may go their entire career without responding to one. The fire service, however, needs to maintain a high level of training and awareness because firefighters must be specially trained to perform duties involving aircraft fires and rescue. Firefighters should maintain an awareness of the many hazards and dangers in responding to these types of incidents.

Course Duration: 0.5 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: None

Regulatory Reference: NFPA 402; NFPA 1003; NFPA 1976



ARFF: PERSONNEL SAFETY

This course offers training for ARFF rescue personnel concerning the purpose and limitations of approved protective clothing. Instructors demonstrate proper donning and use of protective equipment applicable in aircraft rescue and firefighting.

Course Duration: 0.5 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: None

Regulatory Reference: FAR 139.319 (j); FAR AC-150/5210-17; FAR AC 150/5210-14A; NFPA 1976

ARFF: VEHICLE RESCUE

This course addresses the Federal Aviation Administration's requirements for additional training of ARFF personnel, along with an update on basic vehicle rescue. See how techniques used during vehicle extrications can be beneficial to your aircraft fire and rescue training.

Course Duration: 1 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: No prior knowledge is required.

Regulatory Reference: FAR 139.319 (J); FAA, AC - 150/5210-17; NFPA 402; NFPA 403

ARFF: WATER RESCUE

This course helps departments meet the requirements of section 12 of the FAA's Part 139.319 (j). Users will learn about personal safety hazards, basic water rescue equipment and techniques utilized by airport rescue departments, how to respond to special situations, and how to address important techniques for water rescue incidents at or near airports.

Course Duration: 1 hour(s)

Audience: Airport Rescue Firefighters

Prerequisite: No prior knowledge is required.

Regulatory Reference: FAR 139.325 (8); FAA, AC 150/5210-13A; FAA, AC 150/5210 - 31A; NFPA 424; NFPA 402



CARBON MONOXIDE

Carbon Monoxide is one of the most common hazards firefighters face on the job. Firefighters may find harmful concentrations as they go about their daily work responding to alarms in homes and businesses, motor vehicle accidents in tunnels and, of course, structure fires. They are even exposed to it daily in quarters, though today it's rare to find harmful levels of carbon monoxide in properly ventilated apparatus bays. This course will increase firefighter's awareness of carbon monoxide and its dangers.

Course Duration: 0.5 hour(s)

Audience: Firefighters

Prerequisite: None

Regulatory Reference: None

CUSTOMER SERVICE FOR FIRE DEPARTMENT PERSONNEL

The fire service is a customer-oriented industry. It exists to serve the public and to provide services such as safety and protection, rescue, and medical aid. For this reason, all fire service personnel need to have excellent customer service skills. Using these basic skills when interacting with others, whether they are department colleagues, or members of the public, can create a more positive experience. It can also contribute to making the community supportive of the fire service, which is critical for any taxpayer-funded organization. Customer service is a vital part of the mission of fire service agencies.

Course Duration: 1 hour(s)

Audience: Fire personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS ABDOMINAL TRAUMA ADVANCED

Abdominal trauma is a serious, potentially life-threatening emergency. The abdominal cavity houses organs vital for normal bodily functioning, such as the liver, kidneys, and pancreas. When injuries affect this area of the body, it is easy to understand how they could put the patient's life in jeopardy. Statistics confirm this, revealing that injuries affecting the abdominal cavity are associated with an increased incidence of morbidity and mortality, especially if there is a delay in surgical intervention.

This course covers both blunt and penetrating abdominal trauma injuries and aims to equip EMS providers to provide accurate assessment and management for patients suffering either or both such injuries. Before launching into a full discussion of patient assessment and management, however, the course reviews foundational material covering abdominal anatomy and pathophysiology. As patient assessment and management of abdominal trauma involves skills that require real-world training, this course is best used as a complement and not a substitute to such training.

Course Duration: 1 hour(s)

Audience: ALS personnel (AEMT and Paramedic)

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS ABDOMINAL TRAUMA BASIC

Abdominal trauma is a serious, potentially life-threatening emergency. The abdominal cavity houses organs vital for normal bodily functioning, such as the liver, kidneys, and pancreas. When injuries affect this area of the body, it is easy to understand how they could put the patient's life in jeopardy. Statistics confirm this, revealing that injuries affecting the abdominal cavity are associated with an increased incidence of morbidity and mortality, especially if there is a delay in surgical intervention.

This course covers both blunt and penetrating abdominal trauma injuries and aims to equip EMS providers with the knowledge to provide accurate assessment and management for patients suffering either or both such injuries. Before launching into a full discussion of patient assessment and management, however, the course reviews foundational material covering abdominal anatomy and pathophysiology.

Course Duration: 1 hour(s)

Audience: BLS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS ACUTE RESPIRATORY DISTRESS SYNDROME ADVANCED

Acute Respiratory Distress Syndrome is a condition that all EMS providers should be familiar with. It involves fluid accumulation within the lungs, and rapid treatment and transport are vital to ensure the survival of the patient. Though the mortality rate of ARDS has decreased in recent years because of advances in modern medicine, it remains fatal, and the exact causes of it are still ambiguous at best.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS ADVANCED AIRWAYS: INTUBATION AND BEYOND (2 HOURS)

Every patient must have a patent airway to survive. As a result, airway management and ventilation are the most critical skills in the prehospital environment.

This course is aimed at the advanced emergency responder, and discusses only advanced airway procedures, from endotracheal intubation to surgical cricothyrotomy. To review basic airway procedures, airway assessment techniques, and manual airway maneuvers, please see the EMS Airway Management courses.

Course Duration: 2 hours

Audience: EMT-Is and EMT-Ps

Prerequisite: No previous knowledge required

Regulatory Reference: None

EMS AIRWAY MANAGEMENT ADVANCED (2 HOURS)

Every patient must have a patent airway to survive. As a result, airway management and ventilation are the most critical skills in the prehospital environment. During the initial assessment of every patient, the EMS responder must first determine if the patient has a patent airway. Always use basic techniques and maneuvers to maintain the airway before progressing to more advanced interventions. Once the airway is open, the EMS provider must determine if breathing is adequate and if supplemental oxygen is indicated. Patients with inadequate breathing must be artificially ventilated using the mouth-to-mask technique, a bag-valve-mask, or a manually triggered ventilation device.

This course highlights basic airway management techniques, such as manual airway maneuvers, basic mechanical airways, suctioning, and oxygenation. In addition, the course reviews advanced airway management techniques, such as tracheobronchial suctioning, endotracheal intubation, and gastric decompression.

Course Duration: 2 hour(s)

Audience: ALS personnel

Prerequisite: AEMT or Paramedic certification recommended.

Regulatory Reference: None

EMS AIRWAY MANAGEMENT BASIC

Every patient must have a patent airway to survive. When the airway is obstructed, the EMT must clear it as soon as possible using the methods described in this lesson. The only exceptions to this would be situations where it is unsafe or the airway problem is such that it cannot be treated in the field and the patient must be transported immediately to a hospital. Remember - a patient without an airway is a dead patient.

Course Duration: 1 hour(s)

Audience: EMT Basic

Prerequisite: No prior knowledge is required

Regulatory Reference: None

EMS ALLERGIES AND ANAPHYLAXIS ADVANCED

Allergic disorders are a leading cause of chronic illness in the United States, affecting more than 20% of people. Allergic reactions can result from a number of different allergens and can range from very mild to severe. A severe allergic reaction, known as anaphylaxis, is a life-threatening emergency. The ability to recognize and manage anaphylaxis is possibly the only thing standing between a patient and imminent death. This course highlights common allergens, assessment, and management of the patient with an allergic reaction, and administration of epinephrine.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS ALLERGIES AND ANAPHYLAXIS BASIC

Allergic disorders affect more than 20 percent of adults and children (40 to 50million people) and are the sixth leading cause of chronic illness in the United States, according to the Allergy Report from the American Academy of Allergy, Asthma, and Immunology (AAAAI). Severe allergic reactions, known as anaphylaxis, are life-threatening emergencies. The ability to recognize and manage a severe allergic reaction (anaphylaxis) is possibly the only thing standing between a patient and imminent death.

Course Duration: 1 hour(s)

Audience: EMT-Basic

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS ALTERED MENTAL STATUS ADVANCED

Altered mental status is any change in the way a person acts or behaves and may indicate an emergent or already serious problem. It may be caused by a variety of conditions. The course reviews the pathophysiology of three common causes of altered mental status - diabetic conditions, seizures, and stroke. In addition, this course outlines the ALS emergency medical care for these patients, including patient assessment and appropriate interventions.

Course Duration: 1 hour(s)

Audience: EMS personnel **Prerequisite:** No prior knowledge is required. **Regulatory**

Reference: None

EMS ALTITUDE EMERGENCIES

Altitude can endanger the patient in several ways. The decrease in oxygen availability puts the patient at risk for acute mountain sickness, high-altitude pulmonary edema, and high altitude cerebral edema. Additionally, the often extreme temperature drops can put the patient at risk for hypothermia and frostbite. To increase the difficulty, symptoms of both altitude illness and hypothermia are similar and resemble those of dehydration and low blood pressure. Successful rescue requires prompt recognition of symptoms, careful and rapid management, and immediate transport.

Course Duration: 2 hour(s)

Audience: EMS Personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS AMPUTATION INJURIES ADVANCED

Every year over 30,000 traumatic amputations take place, and 75% of pediatric amputations are due to traumatic accidents. In traumatic amputations, the potential for success in reattaching the amputated body part is highly contingent upon the quality of the prehospital care provided. For this reason, EMS providers play a significant role in the survival and recovery of patients who experience traumatic amputations. This course provides a general overview of amputation injuries and discusses assessment strategies and patient management considerations. The course also surveys the various types of amputation injuries that may be encountered, the pathophysiology of such injuries and strategies for hemorrhage control and for providing the optimal chance for survival and for successful reattachment.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS AQUATIC EMERGENCIES

Aquatic emergencies present high-pressure situations for the emergency responder. In many cases, the victim will be a young child, which may present unique challenges to the rescuer. Drowning emergencies can also confuse rescuers due to the fact that some victims can survive prolonged immersion and cardiac arrest while appearing lifeless. Emergency services personnel must possess an acute awareness of the pathophysiology of drowning and diving emergencies and the proper care for a patient in an aquatic emergency.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required

Regulatory Reference: None

EMS ASSESSING THE PATIENT WITH MAJOR TRAUMA

Proper assessment of a patient with a major traumatic injury is crucial. Not only does this assessment determine the extent of the patient's injuries, but it also aids in determining patient care priorities. EMS providers face unique challenges when assessing a patient with a major trauma injury because not only do they have to determine any immediate life threatening injuries, but they also have to consider any threats that may leave the patient with any long-term disabilities. This course discusses assessment techniques for making the initial impression of patients as well as assessment elements specific to certain types of trauma injuries. Quick and thorough assessment of a trauma patient is the cornerstone for providing proper treatment and may aid in preventing death or permanent disability.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required.

Regulatory Reference: None



EMS ASTHMA ADVANCED

Asthma, otherwise known as reactive airway disease affects between 10-15 million in the U.S., and it leads to the deaths of over 4000 people a year. Approximately 50% of patients suffering from a prehospital asthma attack die before arrival to the hospital. Therefore, prompt recognition and appropriate treatment on the part of the EMS provider are vital. Asthma attacks need to be managed aggressively.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS BACK INJURY PREVENTION

Providing emergency medical care is a physically demanding career. Lifting and moving patients, rescuing patients in awkward and dangerous positions, and carrying heavy medical equipment are all parts of the job that put you at risk for back injuries. Since once a back is injured, it is three to five times more likely to experience subsequent injury, this training course focuses on the knowledge and skills you need to prevent a back injury. Remember, your health and safety should be your primary concern on the job. Keeping this focus will ensure you are physically fit to continue in your rewarding career for years to come. This training course has eight learning modules with a ten-question exam.

Course Duration: 1hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910

EMS BARIATRIC PATIENTS

Nearly 70% of American adults are overweight and over one-third are obese, and current trends suggest these numbers are likely to increase. In the past three decades, obesity has more than tripled among adolescents. This means EMT providers will encounter an increasingly higher incidence of emergency runs involving bariatric patients. EMS personnel need to be prepared to respond to such incidents, to be able to recognize and manage the high number of known comorbidities of obesity, and to mitigate the risks of injury posed by moving and transporting such patients.

Course Duration: 2 hour(s)

Audience: EMS Personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS BEHAVIORAL EMERGENCIES ADVANCED

The EMS provider will respond to many situations involving behavioral emergencies. Some of these result from an injury or acute illness of the patient. Others are the result of mental illness or the use of mind-altering substances. Mental health issues incapacitate more people than all other health problems combined. Some estimate that 20% of the population suffers from mental health problems and that one person out of every seven will require treatment for an emotional disturbance. When caring for these patients, remain calm and treat the patient with respect. Restraints are the best LAST option in a behavioral emergency.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS BEHAVIORAL EMERGENCIES BASIC

EMS professionals will respond to many situations involving behavioral emergencies. Some of these result from an injury or acute illness of the patient. Others are the result of mental illness or the use of mind-altering substances. Mental health issues incapacitate more people than all other health problems combined. Some estimate that 20% of the population suffers from mental health problems and that one person out of every seven will require treatment for an emotional disturbance. When caring for these patients, remain calm and treat the patient with respect. Restraints are the best LAST option in a behavioral emergency.

Course Duration: 1 hour(s)

Audience: BLS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS BLEEDING AND SHOCK ADVANCED

Trauma is the leading cause of death in the United States for persons between the ages of 1 and 44. Understanding the mechanism of injury and relevant signs and symptoms of bleeding and shock (hypo perfusion) is of paramount importance when dealing with the traumatized patient. This course highlights techniques to control external bleeding, as well as the signs, symptoms, and care for shock.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required

Regulatory Reference: None

EMS BLEEDING AND SHOCK BASIC

Trauma is the leading cause of death in the United States for persons between the ages of 1 and 44. Understanding the mechanism of injury and relevant signs and symptoms of bleeding and shock (hypo perfusion) is of paramount importance when dealing with the traumatized patient. This course highlights techniques to control external bleeding, as well as the signs, symptoms, and care for shock.

Course Duration: 1 hour(s)

Audience: EMT-Basic

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS BLIND NASOTRACHEAL INTUBATION

Blind nasotracheal intubation offers responders the ability to maintain a patent airway when the orotracheal route is contraindicated. Despite its critical role in the field, however, performing successful blind nasotracheal intubation can be a challenge because it does not permit the responder to visualize the glottis opening. Training and increased familiarity with the procedure can help EMS providers overcome these challenges. This course reviews the concept and procedure of blind nasotracheal intubation, including a discussion of indications and contraindications, intubation procedures, and methods of confirming successful tube placement. Blind nasotracheal intubation is an important skill for providing advanced airway support.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS BOMB BLAST INJURIES ADVANCED

Bomb blasts can result in a large number of victims with a broad range of combined injuries. While statistics suggest that many of these are usually non-critical soft-tissue injuries, a significant number can be life threatening. Because of the widespread devastation caused by such incidents and the unique injury patterns involved, caring for patients at these kinds of emergencies can be a challenge. EMS providers must be able to quickly perform triage, using their knowledge of the physics of bomb blasts both to locate the patients in greatest need of treatment and to assess them for the kinds of injuries resulting from explosions. * (Dec. 2006). Bombings: Injury Patterns and Care. Blast Injuries Module.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS BURN MANAGEMENT ADVANCED

Burn injuries are a form of trauma that can be very distracting to the EMS provider because of the look and smell of the burn. These injuries have high mortality rates and can result in lengthy rehabilitation, cosmetic disfigurement, psychosocial problems, and permanent physical disabilities for the patient. When providing emergency care for these types of injuries, focus on the treatment of life-threatening injuries if they are present even though the burn may consume attention. This course highlights the different types of burn injuries and how to treat them to prevent further injury and reduce contamination.

Course Duration: 2hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS BURN MANAGEMENT BASIC

Burn injuries are a form of trauma that can be very distracting to the EMS provider because of the look and smell of the burn. These injuries have high mortality rates and can result in lengthy rehabilitation, cosmetic disfigurement, psychosocial problems, and permanent physical disabilities for the patient. When providing emergency care for these types of injuries, focus on the treatment of life-threatening injuries if they are present even though the burn may consume attention. This course highlights the different types of burn injuries and how to treat them to prevent further injury and reduce contamination.

Course Duration: 1hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS CAPNOGRAPHY

Capnography is the measurement of carbon dioxide concentrations in exhaled air. It is an essential diagnostic instrument in the prehospital setting. Not only does it provide valuable information for EMTs, such as the evaluation of treatment response, but it is also a noninvasive measurement, which makes it easy for patient use. This course discusses capnography and the use of capnograms in the EMS industry. A thorough knowledge of capnography is essential in prehospital patient care.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS CARBON MONOXIDE POISONING

Carbon monoxide is one of the most inhaled toxins. Because of this, treating patients with carbon monoxide poisoning is an emergency situation EMS providers often face, and because of its common symptoms, carbon monoxide is often misdiagnosed. EMS providers need to have a thorough comprehension of assessing and treating patients suffering from carbon monoxide poisoning while protecting themselves in the process.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS CARDIAC EMERGENCIES ADVANCED

More than 600,000 patients die each year from cardiovascular diseases. Half of these deaths occur before the patient reaches the hospital. Many times, collapse and sudden death is the first sign of cardiac disease. Research has shown that rapid defibrillation is the major determinant of survival in cardiac arrest caused by ventricular fibrillation. Not all chest pain, however, will result in cardiac arrest. This course highlights the signs and symptoms and the emergency medical care of patients experiencing chest pain related to conditions such as angina pectoris, myocardial infarction, heart failure, cardiac tamponade, hypertensive emergency, and cardiogenic shock.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS CARDIAC EMERGENCIES BASIC

More than 600,000 patients die each year from cardiovascular diseases. Half of these deaths occur before the patient reaches the hospital. Many times, collapse and sudden death is the first sign of cardiac disease. Research has shown that rapid defibrillation is the major determinant of survival in cardiac arrest caused by ventricular fibrillation. This course highlights the signs and symptoms of cardiac arrest and the steps to take to properly use an automated external defibrillator (AED). Not all chest pain, however, will result in cardiac arrest. As such, this course also reviews the signs and symptoms of cardiac compromise and the emergency medical care of patients experiencing chest pain, including the administration of nitroglycerin.

Course Duration: 1 hour(s)

Audience: EMT – Basic

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS CARDIOVASCULAR ANATOMY & PHYSIOLOGY REVIEW

For over 80 years, cardiovascular disease has been the leading cause of death in the U.S. More than 80 million people in America suffer from some type of cardiovascular disease. Of these, coronary heart disease is the most prevalent. It remains the leading cause of death nationwide. Because of the prevalence of cardiovascular conditions, it is important for EMS personnel to understand the anatomy and physiology of the heart and of the vascular system.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS CLINICAL DECISION-MAKING

Not only does treating patients in the prehospital environment have an air of uncertainty to it, but it also requires EMS personnel to work quickly and under a lot of pressure. EMS providers must be able to rapidly gather, weigh, and synthesize information pertaining to their patients. They must also be able to develop and apply patient management plans as fast as possible. Essentially, EMS personnel must have strong clinical decision-making skills in order to properly do their jobs.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS CNS INJURIES ADVANCED

Every year, brain, skull, and spinal cord injuries contribute to numerous patient fatalities at accident scenes. In the United States, approximately 12,000 patients survive their spinal cord injuries, many of whom will suffer severe, debilitating effects that can last throughout their lives. The costs of these injuries to patients can be significant. It is estimated that a patient who was 25 years old at the time of injury, in addition to suffering possible job loss, may also incur more than \$4.6 million in expenses over the course of their lifetime. EMS providers play a critical role in assessing injuries to the central nervous system (CNS) and minimizing the chance of further injury by providing effective spinal-motion restriction. Errors can be devastating. It has been estimated that up to one-quarter of spinal cord injuries may be made significantly worse during extrication or early treatment after a motor vehicle accident. This course provides an overview of the anatomy of the spine and CNS and highlights the signs of spinal injury, assessment, and medical care of patients with CNS injuries, and the use of short and long backboards. It has recently been updated to include the latest education standards for EMS personnel.

Course Duration: 1 hour(s)

Audience: ALS personnel

Prerequisite: No prior knowledge is required

Regulatory Reference: None



EMS CNS INJURIES BASIC

Head and spinal trauma can result in severe, debilitating injuries. These kinds of injuries can have a significant effect on a person's lifestyle and finances. Over the course of a lifetime, a patient aged 25 at the time of injury will incur over \$4.6 million in expenses, as well as lost income due to job loss. By providing accurate injury assessment and adequate spinal motion restriction, EMS providers can prevent these patients' injuries from becoming worse. Packaging and transporting the patients quickly and safely can be a challenge. If the injury is not identified during assessment and the patient is not properly immobilized, permanent disability or even fatality can result. It has been estimated that up to one-quarter of spinal cord injuries may be made significantly worse during extrication or early treatment following a motor vehicle accident. This course provides an overview of the anatomy of the spine and central nervous system and highlights the signs of spinal injury, assessment, and medical care of patients with CNS injuries, and the use of short and long backboards.

Course Duration: 1 hour(s)

Audience: BLS personnel

Prerequisite: EMR or EMT certification recommended

Regulatory Reference: None

EMS COMMON INFECTIOUS PATHOGENS

This course is meant to serve as an extension of EMS Infectious Disease Control, which focuses mainly on blood borne pathogens (BBPs), e.g., HIV, HBV, and HCV. EMS personnel are at risk of contracting a number of infectious diseases apart from BBPs. This course discusses other infectious diseases, which may be encountered by healthcare workers, such as Hepatitis A, Tuberculosis, and Meningitis. This course also discusses the appropriate precautions to prevent disease transmission in the pre-hospital setting.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS COMMUNICATION AND DOCUMENTATION

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS COMPLETE RESUSCITATION: INTEGRATING POST-CARE ADVANCED

Proper care of a cardiac arrest patient is essential, and this care does not stop once the patient regains a pulse. Integration of appropriate post-resuscitation care in your management of the cardiac arrest patient is crucial. In fact, once a patient's pulse is reestablished, the actions taken next by EMS providers may determine whether the patient survives. This course attempts to show a complete picture of cardiac arrest management by going beyond initial resuscitation and discussing the pathophysiology of cardiac arrest and what providers must do to both reestablish and pulse and then fully continue care through arrival at the hospital. This course focuses specifically on adult patients. For pediatric cardiac arrest considerations, see the course EMS Pediatric Cardiac Arrest.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge Required

Regulatory Reference: None

EMS CONFINED-SPACE ENTRY

Your most important concern when approaching the scene of an emergency is safety - for you, your crew members, and others on the scene. There are a variety of hazards you may encounter, including crash scenes, hazardous materials, crime scenes, or unstable surfaces. This training course is focused on the hazards associated with confined space entry. Confined spaces may seem harmless but can be extremely dangerous, even fatal. According to NIOSH, 60% of all fatalities associated with confined spaces are would-be rescuers. Recognizing confined spaces and the hazards that may be encountered in them is the first step in avoiding serious injury and death. This course provides awareness level training for activities related to confined space entry. It is imperative that emergency medical service personnel recognize the potential hazards that may be encountered while working in and around confined spaces and to understand safe work procedures that will promote safe and efficient operations in confined spaces. Additional training at your job site is recommended in order to gain a better understanding of the confined space procedures in your organization. This training course has 14 learning modules with a ten-question exam.

Course Duration: 1 hour(s)

Audience: This training program is deemed mandatory for all confined space entrants and attendants. This course is intended as continuing education credit for emergency medical service personnel.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.146

EMS CRIME SCENE AWARENESS

EMS providers can be affected by violence and crimes at any point in their careers. Therefore; it is essential that providers are always conscious of dangerous situations and have a complete understanding of how to handle them. If you are not aware of dangerous situations or how to respond to patients at a crime scene, you risk becoming a victim or hostage of a violent situation. And, not only does this put your at risk, but you also risk endangering your crew. This course discusses crime scene awareness, and it offers suggestions on how to approach and manage scenes with potential violence. Always follow your local protocols where any discrepancy between the course content and your local protocols exist. It is essential to the well-being of a responder to be aware of how to proceed in dangerous situations and at crime scenes.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS CULTURAL DIVERSITY FOR EMS PROVIDERS

EMS agencies are often at the forefront of meeting this healthcare challenge, placing unique demands on personnel in trying to provide the same high-quality care for all patients irrespective of cultural backgrounds. Differences in language, cultural expectations, and access to primary care services require EMS providers to demonstrate cross-cultural competence in the field. This course provides an overview of practical strategies for developing cross-cultural competence and providing culturally diverse patients with the best possible care.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS DATE RAPE DRUGS

Drugs used to facilitate sexual assault are becoming increasingly available to teens, young adults, and perpetrators of sexual assault of all ages. The U.S. Department of Justice estimates that nearly a half million individuals are victimized by sexual assault in the U.S. every year. Many of these incidents involve the use of illegal or illegitimately used substances that cause the victim to experience significant psychosocial and physiological health effects and lose consciousness or retain little memory of events surrounding the assault. Responding to such emergencies poses numerous challenges to EMS personnel. This course aims to familiarize EMS workers with the incidence, effects, and characteristics of date rape drug emergencies and prepare them to respond.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS DIABETIC KETOACIDOSIS ADVANCED

Nearly 8% of the U.S. population has diabetes. When diabetics do not have enough insulin or are unable to use the insulin, hyperglycemia can result, which, when left untreated, can result in diabetic ketoacidosis, a serious diabetic emergency. Each year, over 100,000 patients are admitted to hospitals due to diabetic ketoacidosis. In young patients, the rate of incidence of diabetic ketoacidosis is significantly higher, accounting for 50% of hospital admissions related to diabetes. This course highlights the pathophysiology of diabetic ketoacidosis and the practical guidelines for assessment and management of patients suspected of suffering from diabetic ketoacidosis, including a special consideration of pediatric patients. It also compares diabetic ketoacidosis with another similar diabetic emergency, nonketotic hyperosmolar coma.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS DIET & NUTRITION

Because providing emergency medical care is physically demanding, taking care of yourself by incorporating proper nutrition and regular exercise into your lifestyle ensures you have the strength and energy to do your job. This training course is designed to provide you with basic information on nutrition, weight control, and physical fitness to help you maintain a healthy weight, prevent disease such as heart disease and diabetes, and fuel your body with the vitamins and minerals it needs to stay strong. This training program has 14 learning modules with a ten-question exam.

Course Duration: 1 hour(s)

Audience: EMS personnel.

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS DRIVING SAFETY

Roadways are a dangerous place for EMS personnel. According to the NFPA, in 2005 there were an estimated 15,885 collisions involving fire department emergency vehicles while departments were responding to or returning from incidents. And many more are injured annually from other emergency vehicle related accidents as well. Operating an emergency vehicle is a responsibility you should take seriously to minimize the risk of injury and death to yourself and others, as well as damage to expensive equipment. Since hands-on experience is a key element to operating an emergency vehicle safely, it is recommended that you attend an approved driving course if you are the driver of an emergency vehicle. This training course reviews the principles of safe driving and highlights the risks you may encounter on the road as a driver and a passenger in an emergency vehicle and can help ensure you and your co-workers arrive safely on the scene.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: Non-Mandatory



EMS EMERGENCY RESPONSE TO TERRORISM (MOD #1)

This Introductory Guide for First Responders is essential for those employees who may be among the first to arrive at an incident of suspicious origin. It is intended to be a general introduction to the basic concepts for first-responder awareness at the scene of a potential terrorist incident. NOTE: This training program consists of four learning modules. To maximize retention of the course material, all four modules must be completed within 365 days of starting the course to receive a certificate of completion.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS EMERGENCY RESPONSE TO TERRORISM (MOD #2)

This Introductory Guide for First Responders is essential for those employees who may be among the first to arrive at an incident of suspicious origin. It is intended to be a general introduction to the basic concepts for first-responder awareness at the scene of a potential terrorist incident. NOTE: This training program consists of four learning modules. To maximize retention of the course material, all four modules must be completed within 365 days of starting the course to receive a certificate of completion.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: Must have already completed Emergency Response to Terrorism MOD1.

Regulatory Reference: None

EMS EMERGENCY RESPONSE TO TERRORISM (MOD #3)

This Introductory Guide for First Responders is essential for those employees who may be among the first to arrive at an incident of suspicious origin. It is intended to be a general introduction to the basic concepts for first-responder awareness at the scene of a potential terrorist incident. NOTE: This training program consists of four learning modules. To maximize retention of the course material, all four modules must be completed within 365 days of starting the course to receive a certificate of completion.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: Must have already completed Emergency Response to Terrorism Module 1 and Module 2.

Regulatory Reference: None

EMS EMERGENCY RESPONSE TO TERRORISM (MOD #4)

This Introductory Guide for First Responders is essential for those employees who may be among the first to arrive at an incident of suspicious origin. It is intended to be a general introduction to the basic concepts for first-responder awareness at the scene of a potential terrorist incident. NOTE: This training program consists of four learning modules. To maximize retention of the course material, all four modules must be completed within 365 days of starting the course to receive a certificate of completion.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: Must have already completed Emergency Response to Terrorism Module 1, 2, and 3.

Regulatory Reference: None

EMS ENDOCRINE SYSTEM EMERGENCIES ADVANCED

Endocrine and diabetic emergencies are becoming increasingly common in the field. Diabetes is one of the leading causes of death in the U.S., and the number of newly diagnosed patients continues to grow each year. Additionally, those encountered in the field are often undiagnosed, a condition shared by millions of people. This course aims to provide EMS responders with the knowledge necessary for assessing and managing patients suffering from endocrine and diabetic emergencies. The course also discusses both healthy endocrine system functioning and pathophysiological functioning, including healthy non-diabetic cellular metabolism and that of a diabetic system. Endocrine emergencies are increasing each year, and rescuers should expect to manage more of these emergencies in the field.

Course Duration: 2 hour(s)

Audience: ALS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS ENVIRONMENTAL EMERGENCIES ADVANCED

Environmental emergencies include exposure to both heat and cold. Regulation of body temperature, which is an important physiological function, can be impaired under temperature extremes and result in heat or cold related illness. The key to effective management is recognizing the signs and symptoms and providing prompt emergency medical care.

Course Duration: 1 hour(s)

Audience: ALS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS ENVIRONMENTAL EMERGENCIES BASIC

Environmental emergencies include exposure to both heat and cold. Regulation of body temperature, which is an important physiological function, can be impaired under temperature extremes and result in heat or cold related illness. The key to effective management is recognizing the signs and symptoms and providing prompt emergency medical care.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS EPILEPSY

Epilepsy affects about 2 million Americans (CDC, 2010). According to the Centers for Disease Control, about 10% of people will experience a seizure sometime during their lifetime and about 3% will have had a diagnosis of epilepsy by age 80. Despite the widespread incidence of epilepsy, however, its underlying causes are still not well understood. To date, it remains an untreatable condition. Because seizures pose a risk of adverse and severe health consequences, EMS personnel face a significant challenge in responding to seizure incidents and managing the patients so that these risks are minimized.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS FEMUR FRACTURES

The femur, the thigh bone located between the knee and hip joints, is an extremely strong and large bone and is not usually fractured unless subjected to significant force, such as in a motor vehicle collision. Fracture of this bone can be extremely painful for the patient and may be life threatening due to associated blood loss. Rapid splinting of the fracture and management of hemorrhage and shock are vital components of successful care of femoral fractures.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS FUNDAMENTALS OF 12 LEAD ECG OPERATION AND INTERPRETATION

Operation and interpretation of 12 lead ECGs is increasingly becoming a skill that is demanded in the prehospital environment. Use of 12 lead ECGs can give providers a much clearer picture of a patient's condition and can favorably increase patient outcomes. For example, prehospital 12 leads have been shown to increase EMS-to-balloon times in STEMI patients. A 2002 study of the attitudes of cardiologists and emergency physicians toward prehospital ECGs found that most cardiologists and EPs found them to be beneficial. This course will serve as an introduction in to the interpretation of an ECG and will include the following aspects: electrode placement and ECG leads, the Autonomic Nervous System, automaticity, methods of determining the heart rate, and regularity of rhythm on an ECG.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS GERIATRIC BEHAVIORAL EMERGENCIES

Understanding geriatric behavioral emergencies is an important aspect of an EMS provider's training. These incidents are often dismissed as normal age-related changes in patients, and therefore, essential care is not initially provided. It is essential that providers have a thorough knowledge base of geriatric behavioral emergencies, so they can recognize these conditions and treat their patients accordingly.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS GERIATRIC EMERGENCIES ADVANCED

Geriatrics is the treatment and study of the aged, generally people older than 65. There are many unique challenges for the EMS provider caring for a geriatric patient. As people age, many physiological and psychological changes occur. In fact, people become less and less alike as they age. These changes, combined with pre-existing medical conditions, the use of many different medications, and social issues unique to the elderly, require modified assessment and treatment techniques. Understanding these challenges is imperative for EMS personnel because this is the fastest growing age group in the United States. It is estimated that by 2030, geriatric patients will comprise 22% of the population and account for 70% of ambulance transports. The purpose of this lesson is to highlight the most common physiological changes and how these changes impact your assessment and treatment of common medical conditions and traumatic injuries.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS GERIATRIC EMERGENCIES BASIC

Geriatrics is the treatment and study of the aged, generally people older than 65. There are many unique challenges in caring for a geriatric patient. As people age, many physiological and psychological changes occur. These changes, combined with pre-existing medical conditions, the use of many different medications, and social issues unique to the elderly, require modified assessment and treatment techniques. Understanding these challenges is imperative for EMS personnel because this is the fastest growing age group in the United States. It is estimated that by 2030, geriatric patients will comprise 22% of the population and account for 70% of ambulance transports. The purpose of this course is to highlight the most common physiological changes and how these changes impact your assessment and treatment of common medical conditions and traumatic injuries.

Course Duration: 1 hour(s)

Audience: EMT-Bs

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS GERIATRIC HIP INJURIES

Hip injuries can lead to life-threatening complications for elderly patients, who can have numerous underlying or subsequent conditions that increase their risk of severe injury and even fatality. One out of five hip fracture patients dies within a year of their injury. The most common reason for hip injury due to a fall is osteoporosis, a disease that weakens bone structure. Because of underlying conditions like this, a fall involving a geriatric patient has the potential to cause more extensive injury and health complications than in younger patients. Among those age 65 and older, falls are the leading cause of injury death.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS GUNSHOT WOUNDS

EMS providers will be faced with the challenge of tending to victims of gunshot wounds at some point in their career. Injuries from guns pose a unique challenge for EMS personnel because of their severity as well as unpredictable scene atmospheres. Essentially, gunshot injuries are often devastating and require prompt action.

Course Duration: 2 hour(s)

Audience: EMS - All Levels

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS H1N1 (SWINE FLU)

EMS responders play an important role in attending to patients with the H1N1 virus. According to the Centers for Disease Control, "Prehospital patient care is provided in an uncontrolled environment, often confined to a very small space, and frequently requires rapid medical decision-making, and interventions with limited information." EMS personnel not only have to use their skills to help H1N1 patients in need, but they have to protect themselves from contracting the virus as well. This course provides information on the H1N1 virus for EMS responders, including symptoms, patient management, disinfection techniques, and how to protect themselves.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS HAZARD COMMUNICATION

Exposure to hazardous chemicals can present numerous dangers to workers. More than 30 million workers are exposed to one or more chemical hazards across various industrial sectors. In addition, with hundreds of new hazardous chemicals being introduced annually in addition to the estimated 650,000 already existing hazardous chemical products, the risk is increasing every year. This poses a serious problem for many workers and their employers. OSHA's Hazard Communication Standard (HCS), sometimes referred to as the Right-to-Know regulation, is designed to ensure that information about these dangers is shared with those who need to know. Chemical manufacturers, distributors, and importers must convey hazard information to downstream employers by means of labels on containers and safety data sheets (SDSs). In addition, all covered employers must have a hazard communication program to get this information to their employees through labels on containers, SDSs, and training. This course covers the HCS with an emphasis on what it is and how to comply, and incorporates recent changes made to the standard in accordance with the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. HCS provides guidelines to help prevent chemical hazard incidents and the adverse health effects that may result.

Course Duration: 1 hour(s)

Audience: Under the Hazard Communication Standard, all facilities must establish a training and information program for every employee exposed to hazardous chemicals in the workplace. This training must be provided at the time of initial assignment and whenever a new hazard is introduced into the work place.

Prerequisite: This module is designed so that no prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.1200(h)

EMS HEAD & FACIAL INJURIES ADVANCED

The head and neck contain many structures critical to the airway, central nervous system, and sensation. Injuries to these areas can cause serious and permanent damage if improperly treated or missed in the patient assessment. This course reviews the pathophysiology and management of common injuries to the head, face, and neck, including injuries to the face, ears, eyes, and throat and soft tissue of the neck. Prompt identification and treatment of these injuries is crucial in reducing pain, preventing further injury, and minimizing permanent damage.

Course Duration: 1 hour(s)

Audience: ALS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS HEALTH & WELLNESS

Providing emergency medical care is a physically and emotionally demanding career. Over time, these demands can wear you down and tire you out. By maintaining a healthy lifestyle, you can ensure you have the strength and energy to do your job safely and efficiently and can tackle stressful situations. This training course was designed to introduce you to the basic concepts of health and wellness to help you improve your quality of life and overall wellness. Topics include the components of wellness such as mental health, stress management, nutrition, physical activity, and sleep. As you work through this training course, remember that taking care of yourself ensures you will be able to take care of others for a long time to come. This training course has 11 learning modules with a ten-question exam.

Course Duration: 1 hour(s)

Audience: This training program is non-mandatory, but is designed to meet the requirements of the National Standard curriculum to serve as continuing education credits for Emergency Medical Service Personnel.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.133

EMS HEAT ILLNESS AND EMERGENCIES

EMS responders are often called upon to treat patients suffering from heat-related illnesses. In fact, according to the Centers for Disease Control, 1,700 people die in the U.S. each year as a result of heat stroke during hot, humid weather. Not only is this ailment common, but EMS responders also face unique challenges when caring for patients suffering from heat illness because high body temperatures can damage the brain or other vital organs. Prompt and skilled action is necessary when treating patients suffering from heat illness emergencies.

Course Duration: 1 hour(s)

Audience: EMS

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS HEMATOLOGY

Hematology is the study of blood and the organs that form blood. Hematological disorders include anemia, hemophilia, lymphoma, and sickle cell disease, among others. Rescuers who understand how hematology and hematological dysfunction affect the body's systems can perform more studied assessments and provide better treatment to patients.

Course Duration: 1 hour(s)

Audience: EMS Personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS HIPAA AWARENESS

The Health Insurance Portability and Accountability Act (HIPAA) was passed by the U.S. Congress in 1996 and aims to protect patients' health information from being improperly used or disclosed. Since 2003, when enforcement of the Privacy Rule began, over 77,000 complaints have been received by the U.S. Department of Health & Human Services (HHS). Nearly 20,000 of these were investigated, and the organizations that had violated HIPAA were required to make changes to their privacy practices, or take other corrective actions. Some were also forced to pay fines and penalties.

This course reviews the federal HIPAA regulations and discusses the duties and responsibilities that are required of EMS personnel and agencies. It also explains the various rights that HIPAA provides to patients and the safeguards that are required when dealing with patient health information. By complying with HIPAA, you will protect patients' confidentiality and ensure that any use or disclosure of their information protects you and your organization from legal liability.

Course Duration: 1 hour(s)

Audience: EMS Personnel (all levels)

Prerequisite: None

Regulatory Reference: None

EMS HIV/AIDS AWARENESS

When providing emergency medical care, there is a strong possibility that you will contact blood and other bodily fluids. Exposure to such fluids or materials could result in transmission of pathogens, which can lead to disease or death. One such potentially infectious pathogen includes the Human Immunodeficiency Virus (HIV), the virus that causes AIDS. The AIDS epidemic continues to be a serious public health problem with profound consequences for our society. Between 650,000 and 900,000 people in the United States have been infected with HIV, and the disease continues to spread. There is no vaccine or cure for this disease. Now, more than ever before, all our communities face the challenge of working together to stop the epidemic. This course highlights how HIV is spread and what to do if you are exposed.

Course Duration: 2 hour(s)

Audience: EMS - All levels

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS INFECTIOUS DISEASE CONTROL

Over 1,000 healthcare personnel are injured by contaminated needles and other sharps devices per day in the U.S., according to CDC estimates. These kinds of injuries pose a serious risk because contaminated needles and sharps can transmit blood borne pathogens such as HIV and Hepatitis B and C. Besides these, over 20 other communicable pathogens can be found in blood and other potentially infectious material encountered at the emergency scene. To prevent infection, EMS providers need to minimize their exposure by following Standard Precautions and using Personal Protective Equipment to create a barrier of protection. These and other protection strategies are outlined in the Occupational Health & Safety Administration's Blood borne Pathogen Standard (BPS). This course provides an overview of the risks and realities of infectious disease exposure incidents in the prehospital environment. It also reviews the requirements for complying with the BPS and provides practical information on various diseases and protection strategies for EMS providers.

Course Duration: 1 hour(s)

Audience: EMS providers

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.1030

EMS INJURIES AND INFECTIONS OF THE EYE

The human eye is an extremely fragile organ, and injury or infection of this organ can both cause extreme pain and lead to lifelong vision problems. According to the Centers for Disease Control, more than 2 million people go to the emergency department for eye injuries in the U.S., and eye trauma is the number one cause of blindness in individuals under 25 years of age. Fast, appropriate care for eye injuries can mean the difference between short-term pain and long-term disability. EMS providers must treat patients with infection or injury to the eye with care and with consideration of the patient's comfort. This course provides an overview of the eye's anatomy, as well as both traumatic injuries to the eye and common infections and diseases of the eye.

Course Duration: 1 hour(s)

Audience: EMS Personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS INTRAOSSEOUS INFUSION ADVANCED

Intraosseous infusion is an effective, life-saving procedure for patients for whom peripheral intravenous cannulation is difficult or unavailable. It provides EMS personnel with the means to quickly and safely administer fluids or medications. For this reason, the intraosseous route has persisted over the past several decades as a common means of establishing venous access for pediatric patients. It is also increasingly being recognized and used for adult patients. Recent technological developments have also added to its scope. This course provides an overview of intraosseous infusion and discusses the various sites and devices that may be used for pediatric and/or adult patients.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS INTRO TO ARRHYTHMIAS: ESCAPE RHYTHMS AND PREMATURE COMPLEXES

Every year, thousands of patients are brought to emergency departments across the country for treatment for rhythm disturbances and the health complications with which they are associated. Additionally, over 800,000 patients are admitted to hospitals each year for treatment for arrhythmias. Yet countless more individuals in apparently good health also experience irregular heart rhythms and suffer no apparent adverse health effects.

Course Duration: 1 hour(s)

Audience: AEMT/Paramedic

Prerequisite: No prior knowledge is required; however, introductory EMS courses are recommended.

Regulatory Reference: None

EMS INTRO TO ARRHYTHMIAS: TACHY-ARRHYTHMIAS AND FIBRILLATION

Approximately 300,000 people each year are treated by EMS professionals for cardiac arrest. Of these patients, only about 8% survive and for cases of sudden cardiac arrest, an estimated 95% do not reach the hospital alive. The most common causes of these types of cardiac arrests are ventricular tachycardia and ventricular fibrillation. To ensure the kind of quality patient care that provides patient's with the optimal chance of survival, EMS professionals need to understand the causes and treatments for tachy-arrhythmias and fibrillation.

Course Duration: 1 hour(s)

Audience: ALS Providers (AEMTs/Paramedics)

Prerequisite: No prior knowledge is required

Regulatory Reference: None

EMS INTRODUCTION TO HAZARDOUS MATERIALS

Emergency medical service personnel face many risks and difficult tasks when dealing with patients involved in hazardous materials incidents. Therefore, it is essential that all personnel who come in contact with patients have a general awareness of the issues and concerns in dealing with hazardous materials incidents. This course is designed to prepare EMS personnel to understand hazardous materials terminology, basic safety strategies, the role of the EMS provider, specialized hazmat personal protective equipment, and the decontamination process.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: None

Regulatory Reference: None

EMS KINEMATICS OF TRAUMA

Traumatic injury is the leading cause of death to Americans, causing 140,000 deaths every year. It is estimated that one-third of these deaths are preventable. The EMT can help to prevent trauma-related deaths by predicting the type and degree of a patient's injury based on the mechanism of injury and forces involved in an accident. Basically, the EMT must consider the scene as well as the apparent condition of the patient. This course will discuss the methods of predicting injury based on the type of motion and the forces involved in an accident. This method of predicting injury is referred to as "kinematics," or the physics of trauma. Some basic principles of physics as they relate to traumatic injury, as well as the mechanism of injury, will be discussed in the course.

Course Duration: 1 hour(s)

Audience: EMS Personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS MANAGING CARDIAC ARREST: DURING AND AFTER RESUSCITATION

Managing cardiac arrest requires great skill and knowledge on the part of the emergency provider. A patient suffering from cardiac arrest has a very small window of time in which resuscitation will be successful and without brain damage. Therefore, it is essential for EMS providers to have a firm grasp on cardiac arrest and management techniques for this emergency situation. This course discusses treating patients suffering from cardiac arrest, including management techniques after resuscitation.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS MANAGING CHRONIC CARE PATIENTS

Emergencies involving chronic care patients can be particularly stressful for patients and their caregivers. Such patients often have extensive medical histories, many have weakened immunological resistance to disease and infection, and others are frail due to the onset of age. Nearly 70% of chronic care patients are aged 65 or older. Additionally, as nearly half of all adults in the US have at least one chronic illness (2005), chronic care is likely to become even more common in the future. This course provides a general overview of the issues and considerations relevant to managing chronic care patients. Topics discussed include the various kinds of medical devices that may be encountered, the specific complications most commonly found in such patients, and the unique assessment and management strategies involved in caring for chronic care patients.

Course Duration: 1 hour(s)

Audience: All EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS MANAGING MULTIPLE CASUALTY INCIDENTS

As an EMS provider, you will respond to emergencies that require the involvement and cooperation of a large number of EMS and other specialized personnel. Such incidents may involve hazardous materials or the challenge of multiple patients. In these situations, you must recognize the need for additional resources and make appropriate notifications to an emergency communication center while maintaining a focus on the protecting yourself at all times. Most communities have detailed plans for such emergencies. Your responsibility is to be familiar with those plans, the roles EMS providers, fire, law enforcement, and other agencies play, and your responsibilities when responding to this kind of emergency.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: None

Regulatory Reference: None

EMS MECHANICS OF BREATHING

Understanding how breathing works is critical to identifying and assessing respiratory pathologies. A proper understanding of the respiratory system and how O₂, CO₂, and other respiratory measurements should be assessed can help EMS personnel determine the point at which the respiratory cycle may be breaking down. Is the patient receiving enough oxygen? Is that oxygen being used efficiently by the body? These kinds of questions can help guide treatment to ensure that the interventions provided are the most effective and appropriate to the patient's condition.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS MEDICAL EXTRICATION & RESCUE

Rescue and extrication operations, especially those relating to traffic incidents, represent a large number of EMS calls. These calls are often not only time-consuming but can be extremely technical, stressful and time-sensitive. Rescuers must have the skills to remain calm while determining the best method of rescuing the patient and subsequently executing their plan. This course will discuss the phases of a rescue operation, the hazards involved with the types of rescue operations, and the strategies for a successful operation.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required to take this course.

Regulatory Reference: None

EMS MEDICAL, ETHICAL, AND LEGAL ISSUES

There are varieties of ethical and legal issues you will encounter on the job. Awareness of these issues is the first step in protecting yourself from both civil and criminal actions. One of your guiding principles as a provider of emergency medical care is to do no further harm. If you follow this principle, act in good faith, and according to appropriate standards of care, you should avoid legal exposure. This course provides an overview of the key legal and ethical issues you will encounter on the job, including scope of practice, standards of care, negligence, consent, and documentation. Because each state is different and protocols vary from county to county, seek competent legal advice if you have questions regarding these issues.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: None

Regulatory Reference: None

EMS MEDICATION ERRORS

A recent survey of paramedics found that over 9% had committed a medication error in the previous 12 months. Four percent of these medication errors were never reported. When a medication error occurs in the prehospital setting, the consequences can be serious. For the patient, the error can cause adverse health effects that could be life threatening. For the person that commits the medication error and the agency they work for, there can also be consequences, especially if the error was not reported. This course provides a general overview of medication errors in the prehospital setting. It discusses the various kinds of medication errors that can occur as well as strategies for preventing them. It also covers how to investigate the underlying causes of medication errors and why reporting errors is important.

Course Duration: 1 hour(s)

Audience: EMS personnel - All levels

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS METHAMPHETAMINE

Methamphetamine abuse is a serious problem. According to one national survey, approximately 10 million people in the U.S. have tried methamphetamine at least once. In addition, due to its highly addictive nature, the number of these who have become addicted is likely significant. The consequences of meth abuse are devastating and wide-ranging, affecting the medical, psychological, and social arenas. The societal burdens of the drug, such as addiction, premature death, and drug treatment, cost the U.S. an estimated \$23.4 billion (RAND, 2005). Not surprisingly, first responders often find themselves on the front lines, confronting the most severe symptoms and effects of the methamphetamine problem. This course aims to provide EMS personnel with an understanding of the methamphetamine problem, its impact on users, and its associated hazards for EMS workers.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS MRSA INFECTIONS

This course provides an overview of methicillin-resistant *Staphylococcus aureus* (MRSA) and discusses key topics of particular concern to emergency providers. Through this course, EMTs will gain a better understanding of the risks of MRSA, how it is transmitted, how to identify infection, how MRSA patients are managed, and how transmission can be prevented. Additionally, the course discusses the importance of cleaning and disinfection and post-exposure procedures.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS MUSCULOSKELETAL INJURIES ADVANCED

Musculoskeletal injuries are one of the most common types of injuries encountered by the EMS provider. These injuries are largely non-life threatening in nature; however, some may be life threatening. Prompt identification and treatment of musculoskeletal injuries is crucial in reducing pain, preventing further injury, and minimizing permanent damage. This course covers musculoskeletal injuries as they apply to fractures, strains, sprains, and dislocations, including types of injuries, patient treatment, and splinting procedures.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required

Regulatory Reference: None

EMS MUSCULOSKELETAL INJURIES BASIC

Musculoskeletal injuries are one of the most common types of injuries encountered by the EMT. These injuries are largely non-life threatening in nature; however, some may be life threatening. Prompt identification and treatment of musculoskeletal injuries is crucial in reducing pain, preventing further injury, and minimizing permanent damage. This course covers musculoskeletal injuries as they apply to fractures, strains, sprains, and dislocations, including types of injuries, patient treatment, and splinting procedures.

Course Duration: 1 hour(s)

Audience: EMT-Basic

Prerequisite: No prior knowledge is required

Regulatory Reference: None

EMS NEONATOLOGY ADVANCED

Neonatology is the study and care of the newborn, or neonate, patient. After a woman gives birth, you must care for two patients-the mother and her newborn child. The newborn has several special needs, the most important of which are protection of the airway and support of ventilations. This course reviews the techniques for assessing the newborn patient, the proper care of a distressed newborn, and the field management of complications common at birth.

Course Duration: 2 hour(s)

Audience: ALS personnel

Prerequisite: AEMT or Paramedic certification recommended.

Regulatory Reference: None

EMS NON-TRAUMATIC ABDOMINAL INJURIES

Abdominal pain is a common complaint and can result from a variety of conditions with similar symptoms, making it very difficult to diagnose. You do NOT need to diagnose the cause of non-traumatic abdominal pain in the field, but you must recognize that acute abdominal pain may be a symptom of a life-threatening condition. Always treat acute abdominal pain as a serious condition until proven otherwise. This course reviews the anatomy and physiology of the abdomen, the steps to assess a patient with acute abdominal pain, and the appropriate emergency medical care.

Course Duration: 1 hour(s)

Audience: ALS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS NON-TRAUMATIC CHEST PAIN

Chest pain is a symptom of potentially serious underlying complications. It can indicate the presence of life-threatening respiratory or myocardial dysfunctions requiring immediate medical care. Unfortunately, prehospital interventions are not always effective. More than half of deaths associated with STEMI (ST-elevation myocardial infarction) occur in the prehospital environment, and one third of STEMI patients die within 24 hours after ischemia begins. This course provides a review of assessment and care considerations unique to patients presenting with non-traumatic chest pain. Topics discussed include the prevalence and significance of chest pain and the underlying conditions that can cause it. Specific common conditions such as coronary artery disease, myocardial infarction, and congestive heart failure are also covered as well as general principles and procedures of ECG monitoring.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS OBSTETRICAL EMERGENCIES ADVANCED (2 HOURS)

You may encounter a number of pregnancy-related complications in the field. Some are minor, but some may be serious and life threatening. While childbirth normally occurs hospital, it does occur in the prehospital setting on rare occasions. Because of the infrequency, taking care of an anxious mother and newborn infant is a stressful emergency call for the EMT. Knowledge and practice can decrease stress and lead to better mother and childcare. The goal of this course is to provide you the information you need to understand and begin management of most common obstetrical and gynecological emergencies.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required.

Regulatory Reference: None

EMS OBSTETRICAL EMERGENCIES BASIC

Gynecology is the branch of medicine that deals with the health maintenance and the disease of women, particularly of the reproductive organs. Obstetrics is the branch of medicine that deals specifically with the care of women through pregnancy. While obstetrical and gynecological emergencies are not common, they require the most professional, safe and effective care by the EMS provider. You may encounter a number of pregnancy-related complications in the field. Some are minor, but some may be serious and life threatening. While childbirth normally occurs in a hospital, it does occur in the prehospital setting on rare occasions. Because of the infrequency, taking care of an anxious mother and newborn infant is a stressful emergency call for the EMS provider. Knowledge and practice can decrease stress and lead to better mother and childcare. Beyond labor and deliver, the most common emergency gynecological complaints are abdominal pain and vaginal bleeding. The goal of this course is to provide you the information you need to understand and begin management of most common obstetrical and gynecological emergencies.

Course Duration: 1 hour(s)

Audience: MT-B

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS OPERATING AN AED

More than 600,000 patients die each year from cardiovascular diseases. Half of these deaths occur before the patient reaches the hospital. Many times, collapse and sudden death is the first sign of cardiac disease. Research has shown that rapid defibrillation is the major determinant of survival in cardiac arrest caused by ventricular fibrillation. This course highlights the signs and symptoms of cardiac compromise, the steps to take to use an automated external defibrillator (AED) properly, special considerations and precautions involving the use of an AED.

Course Duration: 1 hour(s)

Audience: EMS Personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS OROTRACHEAL INTUBATION

Orotracheal intubation is the most common type of endotracheal intubation. In the prehospital environment, it can provide a vital means of ventilation for a patient whose airway is compromised. Despite its critical role in the field, however, intubation is not always implemented successfully. Up to 25% of endotracheal intubations are misplaced. This course provides a review of orotracheal intubation, including a discussion of indications and contraindications, intubation of trauma and non-trauma patients, intubation of pediatric patients, and methods of confirming successful tube placement. When it comes to orotracheal intubation, more training and greater familiarity with the practice are needed.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS PATIENT ABUSE AND ASSAULT

The prevalence of abuse and assault coupled with the deep physical and psychological impacts of such incidents on victims and their loved ones makes it imperative that emergency responders be familiar with the unique patient care considerations and characteristics inherent in these situations. Topics covered in the course include the cyclical nature of abuse, the legal aspects of sexual assault cases, and the community resources available for helping victims beyond the prehospital environment. This course aims to equip paramedics to respond professionally, caringly, and effectively to incidences of abuse and assault, including partner abuse, elder abuse, child abuse, and sexual assaults involving adults and/or children.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required

Regulatory Reference: Special Considerations: 6 Abuse and Assault: 4

EMS PATIENT ASSESSMENT ADVANCED

Patient assessment is a structured method of evaluating a patient's condition. An organized and well-developed patient assessment serves as a valuable tool for the provision of patient care. Patient assessment is the process of looking for, asking about, and recognizing the symptoms and signs of an abnormal condition. Because a patient's condition can change quickly, the assessment process continues throughout the time spent with a patient.

Course Duration: 1 hour(s)

Audience: ALS personnel

Prerequisite: AEMT or Paramedic certification recommended.

Regulatory Reference: None

EMS PATIENT ASSESSMENT BASIC

Patient assessment is a structured method of evaluating a patient's condition. An organized, well-developed patient assessment is a valuable tool for providing patient care. Patient assessment is the process of looking for, asking about, and recognizing the symptoms and signs of an abnormal condition. It is a process that continues throughout the time spent with a patient because a patient's condition can change quickly. Continual assessment allows the EMS provider to recognize critical situations early and to influence patient outcomes positively.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS PATIENTS WITH SPECIAL CHALLENGES

When called to the scene of an emergency, you may encounter patients with a variety of special challenges. From physical impairments to mental challenges to pathological conditions, these patients vary from the norm and may require special considerations for communications, care, and transport. Being aware of these challenges will ensure you treat these patients in a professional, courteous manner and provide the best possible care. The course highlights the special needs of patients with hearing impairments, visual impairments, speech impairments, obesity, paraplegia/quadruplegia, mental illness, developmental disabilities, arthritis, cancer, cerebral palsy, cystic fibrosis, multiple sclerosis, muscular dystrophy, myasthenia gravis, poliomyelitis, spina bifida, and patients with a previous head injury.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required

Regulatory Reference: None

EMS PEDIATRIC AIRWAY MANAGEMENT ADVANCED

Airway management is a critical skill for EMS personnel. A patient without a patent airway will suffer hypoxia, which can cause permanent brain damage after four minutes. After ten minutes, the patient has only a one percent chance of survival. Respiratory difficulties are among the most common types of pediatric emergencies in many EMS systems. Because of the frequency and severity of respiratory incidents with pediatric patients, EMS personnel need to keep their skills sharp and remain prepared to provide immediate and effective interventions.

Course Duration: 2 hour(s)

Audience: ALS Personnel

Prerequisite: ALS Training is recommended.

Regulatory Reference: None

EMS PEDIATRIC ASSESSMENT

More than 20,000 children die each year in the United States due to traumatic incidents and injuries. It is crucial that EMS providers understand how to assess the pediatric patient and determine if potential life threatening conditions exist. An organized and well-developed assessment of the pediatric patient serves as a valuable tool for the provision of care. Because a pediatric patient's condition can change quickly, the assessment process continues throughout the time spent with a patient.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS PEDIATRIC BURNS ADVANCED

Burns are the second-leading cause of death among children between 1 and 14. Since 2001, over 100,000 children are treated for burn injuries each year on average. Pediatric burn patients often have unique mechanisms of injury and have different physiological needs than adults, so a one-size-fits-all approach can do more harm than good. EMS providers must adapt their interventions to the unique needs of these particularly vulnerable patients. This course reviews pediatric patient burn assessment and management strategies, highlighting the differences between pediatric and adult patients. The course discusses the physiological effects of burn injuries on children and provides guidelines for making patient assessment, management, and transport decisions.

Course Duration: 1 hour(s)

Audience: AEMTs and Paramedics

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS PEDIATRIC CARDIAC ARREST ADVANCED

Pediatric cardiac arrest is one of the most serious and stressful incidents EMS providers face. Care for victims of cardiac arrest must be provided immediately because their window of survival is very limited. During cardiac arrest, the pumping action of the heart stops, and the body's cells begin to die within 4–6 minutes of onset. Bystanders trained in CPR and EMS providers must act quickly to improve a patient's chances of survival from cardiac arrest. Approximately 16,000 children go into cardiac arrest each year. More than 5,000 children experience a nontraumatic pediatric out-of-hospital cardiac arrest (OHCA) each year.

Course Duration: 2 hour(s)

Audience: EMS personnel (ALS)

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS PEDIATRIC EMERGENCIES ADVANCED

Infant and child patients can cause anxiety for the prehospital care provider due to lack of experience dealing with this special population as well as a fear of failure. Infants and children are not just small adults. Their body size, differing developmental changes, and differing ranges of vital signs require that the EMS provider modify his approach accordingly. In addition, the EMS provider must recognize that the child must be cared for in the presence of the family, which can cause additional challenges for the emergency medical care provider. A calm, professional, and reassuring EMS provider can help to minimize the psychological impact of the transport on the parent and the child.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS PEDIATRIC EMERGENCIES BASIC

Infant and child patients can cause anxiety for the prehospital care provider due to lack of experience dealing with this special population as well as a fear of failure. Infants and children are not just small adults. Their body size, differing developmental changes, and differing ranges of vital signs require that the EMS provider modify his approach accordingly. In addition, the EMS provider must recognize that the child must be cared for in the presence of the family, which can cause additional challenges for the emergency medical care provider. A calm, professional, and reassuring EMS provider can help to minimize the psychological impact of the transport on the parent and the child.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS PEDIATRIC SHOCK ADVANCED (2 HOURS)

Pediatric shock is a life-threatening condition. In fact, each year it accounts for about 20 million deaths of infants and children worldwide. Delays in recognizing the type of shock a child is suffering from and beginning the proper treatment will result in a rapid progression from compensated reversible shock to irreversible shock, which ends in organ failure and eventually death. The earlier shock is recognized and therapy is started, the better the child's chance of survival will be.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No previous knowledge required.

Regulatory Reference: None

EMS PEDIATRIC TRAUMA ADVANCED

Traumatic injury is the leading cause of death in young children and adolescents. Children have unique medical needs. Therefore, it is essential that responders have a thorough understanding of pediatric traumatic injuries and the knowledge to manage these incidents. This two-hour course discusses the types of pediatric trauma incidents and management methods of each.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prerequisites are required.

Regulatory Reference: NHTSA 6-2

EMS PELVIC FRACTURES ADVANCED

Pelvic fractures are serious injuries with potential for severe hemorrhage and exsanguination. Up to 4 liters of blood can be drained into the pelvic and retroperitoneal cavities in a pelvic fracture injury. Pelvic fracture patients also face a heightened risk of mortality from likely multisystem trauma due to the significant force required to cause such fractures and the likely significant mechanism of injury. In motor vehicle accidents, pelvic ring fractures are the third most frequent cause of mortality. This course provides a general overview of pelvic fractures and discusses assessment strategies and patient management considerations. The course also surveys the various types of pelvic fractures that may be encountered and the anatomical and physiological impacts such fractures may have.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS PHARMACOLOGY ADVANCED

Providing the proper medication in an emergency situation is critical to the well-being of the patient. As a paramedic, you are often responsible for administering medication to a patient. This responsibility must not be taken lightly. While administering the proper medications can improve a patient's well-being or even save his life, there are risks. Medications used or delivered inappropriately can cause harm or even death to the patient. The goal of this course is to provide comprehensive information regarding pharmacology and introduce the medications most commonly used in the prehospital environment. In addition to covering commonly used medications, the course will discuss legal considerations, medication rights administration, routes of administration, special considerations, and drug profiles.

Course Duration: 2 hour(s)

Audience: ALS personnel

Prerequisite: AEMT or Paramedic certification recommended

Regulatory Reference: None

EMS PHARMACOLOGY BASIC

Giving the proper medication in an emergency situation is critical to the well-being of the patient. As a prehospital care provider, you carry several medications that you may give a patient under specific conditions. In addition, you can assist a patient in self-administering certain prescribed medications with the approval of your medical director. This responsibility must not be taken lightly. While administering the proper medications can improve a patient's well-being, there are risks. Medications used inappropriately can cause harm or even death to the patient. This goal of this course is to give you a basic understanding of pharmacology and introduce you to the medications you will encounter in the field.

Course Duration: 1 hour(s)

Audience: BLS personnel

Prerequisite: EMR or EMT certification recommended

Regulatory Reference: None

EMS POISONING AND OVERDOSE

Thousands of children are poisoned every year as they explore their environments. Many adults also overdose on medication, either accidentally or deliberately. With early prehospital management, the vast majority of these patients have better outcomes. This course highlights how poisons enter the body, the emergency care of poisoning or overdose, and the administration of activated charcoal for patients with poisoning or overdose.

Course Duration: 1 hour(s)

Audience: EMS Personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS PREHOSPITAL PULMONARY EMBOLISM CARE

A pulmonary embolism is a blood clot in one of the pulmonary arteries. It is a fairly common disorder, affecting about 650,000 people in the United States a year. Urgent care of victims of a pulmonary embolism is essential as about 11% of victims of this artery blockage die within the first hour of onset, and approximately 38% succumb within the second hour. Like most emergency response incidents, a pulmonary embolism is a time-sensitive ailment; rapid transport is essential.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS PROTECTING YOURSELF FROM INFLUENZA

Influenza, commonly called "the flu," is a contagious respiratory illness caused by the influenza virus. It can cause mild to severe illness, and at times can lead to death. The best way to prevent this illness is by getting a flu vaccination each fall. Some people, such as older people, young children, and people with certain health conditions, are at high risk for serious flu complications. As an emergency medical provider you will likely be exposed to the influenza virus on the job. This course highlights the signs and symptoms of the flu, as well as the steps you can take to avoid the illness.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required

Regulatory Reference: None

EMS RAPID SECONDARY ASSESSMENT

Accidental injuries are the leading cause of death for children and adults under 44 years of age, and patients with severe trauma pose a significant challenge in the prehospital environment. Rapid secondary assessment plays a critical role in the care of such patients. For trauma patients with a significant mechanism of injury, it provides a more thorough means of assessing the patients' injuries and condition. When performed properly, rapid trauma assessment is both thorough and quick, and provides the EMS provider with a better understanding of the patient's injuries and their severity so that he or she can make better informed decision about patient care. This course provides an overview of rapid secondary assessment. It aims to give EMS providers a better understanding of the importance and method of performing a rapid secondary assessment over each major body section, from head to toe.

Course Duration: 1 hour(s)

Audience: EMS Personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS RENAL FAILURE ADVANCED

Over 20 million adults have physiological evidence of chronic kidney disease. Over a half million patients in the U.S. are undergoing treatment for end-stage renal disease, a generally irreversible state requiring renal replacement therapy, dialysis, or kidney transplantation to sustain life. As many patients die while being treated for uremia as from any cancer except lung cancer. This course aims to provide a general overview of renal failure, including causes, signs and symptoms, possible complications, and recommended patient management strategies. The course covers both acute and chronic types of renal failure as well as renal physiology and dialysis.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS RESPIRATORY EMERGENCIES ADVANCED

Respiratory complaints are a major aspect of EMS, resulting in 28% of all EMS chief complaints according to a US study of over 2.5 million EMS calls. Every year over 200,000 people die from respiratory emergencies. A patient in severe respiratory distress can deteriorate quickly to respiratory arrest. Rapid intervention is essential to increase the patient's chances of survival, and a clear working knowledge of common respiratory conditions is critical.

Course Duration: 1hour(s)

Audience: EMS personnel

Prerequisite: None

Regulatory Reference: None

EMS RESPIRATORY EMERGENCIES BASIC

Every year over 200,000 people die from respiratory emergencies. A patient in severe respiratory distress can deteriorate quickly to respiratory arrest. Rapid intervention is essential to increase the patients chances of survival, and a clear working knowledge of respiratory emergencies is critical. The goal of managing the patient with respiratory distress, no matter what the cause, is to re-establish the adequate gas exchange of the gasses to the tissues. Remember that with respiratory emergencies, a careful assessment will help you achieve your goal of helping the patient.

Course Duration: 1 hour(s)

Audience: EMT-B

Prerequisite: None Regulatory

Reference: None

EMS RESPIRATORY SYSTEM A&P REVIEW

The process of breathing and respiration is a primary bodily function required to sustain life. A thorough understanding of the anatomical and physiological function of the structures of the respiratory system will assist EMS personnel in providing adequate medical care to those in need. This course will describe the basic components and functions of the respiratory system and how to differentiate between adequate and inadequate respiration.

Course Duration: 1 hour(s)

Audience: EMS Personnel (all levels)

Prerequisite: None

Regulatory Reference: None

EMS SPECIAL CHALLENGES IN PATIENT ASSESSMENT

Assessment of a patient is extremely important and performing a thorough and accurate assessment can be the key to saving a patient's life. In some cases, however, the difficulty of providing an accurate assessment and taking a thorough patient history increases. For example, the emergency provider may face challenges such as language barriers, intoxication, refusal to talk, and mental illness. The emergency provider must learn the skills to effectively work around these situations to initiate and complete an appropriate patient assessment in order to ensure successful care and positive outcomes.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS SPINAL CORD INJURIES

On average, there are between 12,000 to 20,000 new spinal cord injuries every year in the U.S., and these are a leading cause of paralysis and many other short- and long-term effects. Some of these injuries, however, are incurred during patient care and could be prevented. In fact, it is estimated that a quarter of all spinal cord injuries are caused by improper handling. A greater understanding of the risks of spinal cord injuries and the need for proper immobilization and patient handling techniques is important for reducing the frequency of such injuries.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS SUCTIONING THE PATIENT AIRWAY

Airway management is one of the most critical skills of treating patients in the prehospital environment. Due to the unstable nature of prehospital patient care, maintaining a patient's airway is not an easy task, especially when it is blocked by a foreign object. Obstructed airways can quickly compromise a patient's survival. Therefore, it is necessary that EMS providers have an exceptional understanding of suctioning the airway. This course examines the skill of suctioning a patient's airway, including special considerations EMS providers must take into account when performing this action. Suctioning is an essential skill EMS providers must master in order to successfully maintain a patient's airway.

Course Duration: 1hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS SUDDEN INFANT DEATH SYNDROME (SIDS)

Sudden Infant Death Syndrome (SIDS) is the unexpected and sudden death of an apparently normal and seemingly healthy infant that occurs during sleep. It is considered one of the leading causes of death in the United States in infants under one year of age as it is responsible for more than 7000 deaths a year. Responding to a SIDS call can be both professionally and emotionally tolling on an EMS provider as not much can be done in terms of patient care and management. Providers will most likely be faced with consoling the parent or other caregiver as well as assessing and recording information about the death scene. Responding to a child who has succumbed to SIDS is emotionally and professionally difficult for the EMS provider.

Course Duration: 1 hour(s)

Audience: EMS responders

Prerequisite: No prior knowledge required.

Regulatory Reference: None

EMS SUPPLEMENTAL OXYGEN

Inspired air has an oxygen concentration of approximately 21%. However, when the available atmospheric oxygen is not sufficient or accessible to the patient, a supplemental source of oxygen is required. The supplemental oxygen functions to increase oxygen to the cells and increase the patient's ability to compensate with breathing difficulties. Several kinds of oxygen delivery devices are available and EMTs need to be familiar with their respective uses. This course provides an overview of supplemental oxygen delivery. Beginning with a brief look at how to recognize airway problems, this course discusses various topics associated with oxygen delivery, including cylinder safety, methods for calculating oxygen flow duration, types of regulators, as well as differences in the various kinds of delivery devices. Additionally, the course reviews conditions for using oxygen humidifiers, and special considerations and procedures for patients with stomas, for pediatric patients, and for patients with facial trauma or dental appliances. Click to Turn On Flash

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required

Regulatory Reference: None

EMS THERAPEUTIC COMMUNICATIONS

Communicating with patients can be difficult, especially when those patients are in crisis. In order to properly do their jobs, EMS providers must have a firm grasp of the communication process. They must know how to interview their patients in order to obtain the appropriate patient information. This course discusses therapeutic communication with patients and ways to effectively communicate with patients in special situations.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS THORACIC EMERGENCIES ADVANCED

The thorax, or chest, is the part of the human body between the neck and the diaphragm, partially encased by the ribs and containing the heart and lungs. Because the chest contains these vital organs, almost all chest traumas can be life threatening! Understanding the mechanism of injury and relevant signs and symptoms of thoracic injuries is of paramount importance when dealing with the traumatized patient. This course highlights the signs, symptoms, and emergency care of the most common traumatic injuries to the thorax.

Course Duration: 1hour(s)

Audience: ALS personnel

Prerequisite: AEMT or Paramedic certification recommended

Regulatory Reference: None

EMS THORACIC EMERGENCIES BASIC

The thorax, or chest, is the part of the human body between the neck and the diaphragm, partially encased by the ribs and containing the heart and lungs. Because the chest contains these vital organs, almost all chest traumas can be life threatening! Understanding the mechanism of injury and relevant signs and symptoms of thoracic injuries is of paramount importance when dealing with the traumatized patient. This course highlights the signs, symptoms, and emergency care of the most common traumatic injuries to the thorax.

Course Duration: 1 hour(s)

Audience: BLS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS TOXICOLOGY AND SUBSTANCE ABUSE ADVANCED

Toxicological emergencies, especially those related to substance abuse, are being encountered in the field with increasingly greater frequency. Unintentional poisoning death rates have been rising steadily since 1992; it is now second only to motor vehicle crashes as a cause of unintentional injury death (CDC 2008), and among people 35 to 54 years old, unintentional poisoning caused more deaths than motor vehicle crashes. These statistics clearly show that the misuse and abuse of potentially harmful substances pose a significant threat to the public and, as such, warrant the serious attention of emergency responders nationwide. This course reviews the toxin exposure problem and discusses the various kinds of toxicological emergencies that are commonly encountered along with assessment findings and patient management procedures unique to each type of toxin exposure. Special emphasis is placed on substance abuse and those substances that are most likely to be encountered in the field.

Course Duration: 2hour(s)

Audience: EMS personnel

Prerequisite: No prerequisites are required.

Regulatory Reference: None

EMS TRACHEOSTOMIES ADVANCED

A tracheostomy is a surgical procedure that creates a tracheal stoma to facilitate respiration. In hospital settings, it is among the most common surgical procedures performed on critically ill patients. This means paramedics need to be prepared to respond to assist patients with tracheostomies by understanding the unique features of tracheostomy care so that they can provide effective suctioning, tube replacement, and ventilation when needed.

Course Duration: 2 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS TRAUMATIC HEAD AND BRAIN INJURIES ADVANCED

A traumatic injury to the head and/or brain can pose a serious threat to the patient. Appropriate care for traumatic head injuries must be commenced immediately, as the progression of these injuries can be very rapid. The rate of permanent disability or mortality associated with these injuries is very high. According to the CDC, 50,000 people die of traumatic brain injury (TBI) each year and at least 5.3 million Americans currently have a long-term or lifelong need for help in performing daily functions as a result of TBI. Appropriate and fast care for these types of injuries, however, can reduce the likelihood of death or permanent disability in these patients. It is imperative that the EMS provider understand the basic anatomy of the head and brain, the pathophysiology of common head and brain injuries, and the steps to assess and care for these injuries in the prehospital environment. This course does not discuss injuries to the face and neck. For information regarding these injuries, please see the EMS Head and Facial Injuries Advanced course.

Course Duration: 2 hour(s)

Audience: ALS personnel

Prerequisite: No prerequisites are required.

Regulatory Reference: None

EMS TRAUMATIC INJURY DURING PREGNANCY

Trauma is always a serious matter for EMS responders; however, it is even more so when it comes to treating a pregnant patient. Anatomical and physiological changes of pregnancy greatly impact a pregnant woman's response to traumatic injury. When responding to a pregnant patient who has suffered trauma, EMTs must modify assessment, treatment considerations, and transportation strategies. This course discusses the different aspects of managing trauma injuries of pregnant patients.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

EMS UNDERSTANDING THE BASICS OF ECGS

The interpretation of arrhythmias on electrocardiograms (ECGs) is increasingly becoming one of the responsibilities of emergency medical technicians in the field. Many departments have even implemented 12 lead ECGs in the field. This course serves as an introduction to the basics of electrical conduction in the heart, including the fundamentals of using an ECG machine and ECG tools, the normal sinus rhythm, ECG leads, and concepts related to the recognition of arrhythmias on the ECG.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge required

Regulatory Reference: None

EMS WORKPLACE STRESS

Stress is a physical and psychological reaction to the increasing demands of life. When your brain perceives a threat, it signals your body to release a burst of hormones to fuel your response. This is called the “fight-or-flight” response. Once the threat is gone, your body should return to a relaxed state. However, the nonstop stress of modern life means your alarm system rarely shuts off. As an emergency medical care provider, you face a variety of stressful situations in the workplace, such as inconsiderate coworkers, abuse calls, dying kids, forced overtime and much more. In addition, you must deal compassionately with patients and victims who are experiencing stress. Stress is one of the leading causes of reduced productivity in the workplace. And stress-related illnesses lead to absenteeism. EMS employers need to be aware of the impact of stress on their providers so they can help employees manage their stress and minimize the impact of stress on the agency. This course highlights some typical sources of stress, as well as methods of dealing with and reducing stress in your daily life. It is impossible to completely avoid stress, so learning to deal with it is necessary to your health and well-being. This training course has nine learning modules with a 10-question exam.

Course Duration: 1 hour(s)

Audience: EMS personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.133

FIRE & EMS GRANT WRITING

Funding is critical to Fire and EMS operations. Equipment, staffing, training all require funding, and the level they require can increase from year to year. This can be challenging when city, state, and other parent organization budgets are already strapped for cash or cutting back in difficult economic times. Yet without maintaining adequate funding, operations are less effective, the community is under served, and lives are put at risk--both those of personnel and of members of the community.

For these reasons, grant writing is an important skill to master. Skills such as research, organization, attention to detail, clear communication, and persistence are all key factors in successfully applying for, winning, and using grant assistance. This course aims to educate Fire and EMS personnel on the skills and tasks necessary for successful grant writing, from the beginning stages of needs assessment and grant research to procuring resources with the allocated grant funds. Key emphasis is placed on federal grants and strategies are proposed for writing grants that successfully reach panel review.

Course Duration: 1 hour(s)

Audience: Fire and EMS personnel

Prerequisite: No previous knowledge required

Regulatory Reference: AFG, SAFER, FP&SG Grants



FIRE INDUSTRY DRIVER INTERSECTION SAFETY

Collisions involving emergency related vehicles are a constant and growing concern. Intersection collisions are the most serious of these incidents. Statistics from the United States Fire Administration, National Highway Transportation Safety Administration, National Safety Council, among others, depict a growing concern and need for awareness surrounding these incidents

In conjunction with VFIS, the Volunteer Combination Officer Section of the International Association of Fire Chiefs (IAFC), The National Volunteer Fire Council, and the National Fire Protection Association, TargetSolutions has developed this course to highlight the principles and practices emergency responders must consider with regard to all motor vehicles, while examining potential risks associated with the operation and presence of an emergency vehicle. The course incorporates long established VFIS intersection safety techniques and seat belt use protocols as best practices in emergency vehicle safe operations.

Course Duration: 1 hour(s)

Audience: Drivers of Emergency Vehicles

Prerequisite: None

Regulatory Reference: N/A

FIRE INDUSTRY DRIVER OPERATOR

Roadways are a dangerous place for emergency responders. According to the NFPA, in 2005 there were an estimated 15,885 collisions involving fire department emergency vehicles while departments were responding to or returning from incidents. And many more are injured annually from other emergency vehicle related accidents as well. Operating an emergency vehicle is a responsibility you should take seriously to minimize the risk of injury and death to yourself and others, as well as damage to expensive equipment. Since hands-on experience is a key element to operating an emergency vehicle safely, it is recommended that you attend an approved driving course for emergency responders if you are the driver of an emergency vehicle. This training course reviews the physical characteristics and features of large vehicles, the principles of safe driving, and highlights the risks you may encounter on the road as a driver and a passenger in an emergency vehicle. Understanding these concepts can help ensure you and your co-workers arrive safely on the scene.

Course Duration: 1 hour(s)

Audience: Firefighters

Prerequisite: n/a

Regulatory Reference: N/A



FIRE INDUSTRY INTRODUCTION TO WILDLAND FIRE BEHAVIOR

Wildfires are a crucial part of natural ecosystems, but also one of the most destructive forces known to man. Within these two extremes lie the responsibilities of the wildland firefighter, who must not only be able to use his skills to protect and preserve human life, but is also occasionally called upon to use those same skills for the positive benefit of the ecosystem. Firefighters use a technique called "controlled burn," in which they deliberately set and then manage a fire in order to properly maintain a fire dependent ecosystem.

This course will explore fire prevention, fire management, and the individual responsibilities of firefighters when fighting wildland fires.

Course Duration: 1 hour(s)

Audience: Fire Department Personnel

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

FIRST RESPONDER HYBRID VEHICLE INCIDENTS

This course explores the principals of hybrid technology as it relates to first responders. While not intended as a substitute to practical training, this course presents a basic overview of hybrid incident response: identifying, immobilizing, and disabling hybrid vehicles, and accessing occupants. Hybrid technology is ever evolving and rescuers will experience improvements in vehicle technologies and new hazards carried with them. Responders should take advantage of any opportunities to learn about emerging vehicle technologies and continue to familiarize themselves with field resource guides. Remember, there is no substitute for participation in field extrication training.

Course Duration: 1 hour(s)

Audience: First Responders and Firefighters I/II

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA recommendation papers



FIRST RESPONDER OPERATIONS LEVEL REFRESHER (MOD #1)

This is the first module of the four-part First Responder Operations Level Refresher course, intended for personnel who respond to a hazardous materials release (or potential release) and mitigate the incident in a defensive fashion. This course will describe the different types of hazardous materials and wastes you may encounter, how their hazardous properties are communicated, initial response steps, and common containers in which hazardous materials are stored. Understanding the nature of hazardous materials and the risks involved will help the first responder effectively, and safely, manage an incident. This course is based on the information and competencies outlined by Occupational Safety and Health Administration's (OSHA) HAZWOPER Standard (29 CFR 1910.120) and NFPA 472.

This training program consists of four modules. To maximize knowledge on the topic, it is recommended that you take all four modules.

Course Duration: 2 hour(s)

Audience: First responders

Prerequisite: None

Regulatory Reference: 29 CFR 1910.120(q), NFPA 472

FIRST RESPONDER OPERATIONS LEVEL REFRESHER (MOD #2)

Planning the Response is the second portion of the four-part First Responder Operations Level Refresher course. This module will cover the chemical and physical properties of materials and their impact on storage and transport containers; response objectives, including how to assess the risk to a responder for each hazard class; and how to determine the suitability of SCBA and personal protective equipment.

This training program consists of four modules. To maximize knowledge on the topic, it is recommended that you take all four modules.

Course Duration: 2 hour(s)

Audience: First responders

Prerequisite: Must have already completed First Responder Operations Level Module 1.

Regulatory Reference: 29 CFR 1910.120(q), NFPA 472; 23 CFR 634

FIRST RESPONDER OPERATIONS LEVEL REFRESHER (MOD #3)

Implementing a planned response is the third component of the four-part First Responder Operations Level Refresher course. This module will cover the principles of site management, methods to establish and enforce control zones, tactics for emergency decontamination, and ways to conduct defensive operations.

This course is written based off of the requirements for first responders at the operations level in NFPA 472 and 29 CFR 1910.120(q).

Course Duration: 2 hour(s)

Audience: First responders at the operations level

Prerequisite: Must have already completed First Responder Operations Level Module 1 and Module 2.

Regulatory Reference: 29 CFR 1910.120(q), NFPA 472

FIRST RESPONDER OPERATIONS LEVEL REFRESHER (MOD #4)

First responders at the operations level need to know how to handle hazardous material incidents, but they also must be prepared to respond to incidents involving terrorism and criminal activity. Hazardous materials and weapons of mass destruction are often used by terrorists to inflict harm on large numbers of people or a certain targeted group of individuals. This course will cover incident management systems, the operations level responder's role in the response plane, factors unique to terrorist attacks and intentional incidents, and common agents used by terrorists. This training program consists of four modules. To maximize knowledge on the topic, it is recommended that you take all four modules

Course Duration: 2 hour(s)

Audience: First responders at the operations level

Prerequisite: Must have already completed First Responder Operations Level Module 1, Module 2, and Module 3.

Regulatory Reference: 29 CFR 1910.120(q), NFPA 472

FLEET PROGRAM ACCIDENTS & EMERGENCIES FOR EMERGENCY VEHICLE OPERATORS

The number of vehicles on our nation's roadways continues to increase every year. As traffic congestion increases, the risk of becoming involved in an accident increases as well. On average in the U.S., a vehicle crash occurs every 5 seconds, a crash-related injury occurs every 12 seconds, and a person is killed in such crashes every 12 minutes. According to the U.S. Fire Administration (USFA), vehicle crashes are the second leading cause of death for on-duty firefighters in the United States, accounting for about 25% of all on-duty firefighter deaths.

Emergency vehicle drivers need to be prepared for such situations and understand what to do when they occur. An accident involving a department-owned vehicle can require the employee driver to respond in certain ways that are in keeping with organizational policies. Emergency vehicle operators should always remember that they will be seen as representing their organization in such situations and should do their best to maintain their integrity and character in all their interactions with the public. This course provides guidance for emergency vehicle operators, describing post-accident procedures such as who to call, what information to provide and collect, and what forms to complete. Information is also provided regarding what employee drivers can expect to be carried out by their organization during the accident investigation and which corrective actions could be recommended to prevent similar accidents in the future. Likewise, the course also discusses strategies for responding safely to unexpected vehicle emergencies, such as a mechanical failure. Equipping a vehicle with an accident kit and emergency supplies is also part of the recommended preparation strategies, as well as some tips on preventing the major causes of accidents and emergencies.

Course Duration: 1 hour(s)

Audience: Emergency vehicle operators

Prerequisite: None

Regulatory Reference: None

FLEET PROGRAM ADJUSTING TO CHANGING CONDITIONS FOR EMERGENCY VEHICLE OPERATORS

Every time they get behind the wheel, emergency personnel, whether driving a department-owned or personal vehicle, face various environmental factors that can have an effect on their ability to drive safely. The hazards involved result not only from the heightened risks imposed directly on the emergency operator but also on the heightened risks facing other drivers on the roadway.

In 2005, 848,000 crashes in the U.S. occurred under rain, sleet, or snow conditions, and although there are far fewer vehicles on roadways at nighttime, over half of all vehicle crashes involving fatalities occurred in dim or dark lighting (NHTSA). It is an obvious fact that environmental conditions play a significant role in vehicle crashes. The most unfortunate aspect of such collisions is that oftentimes they are entirely preventable. The main culprit in these crashes is often not the effect of the environment but the drivers who failed to recognize the hazardous conditions and drive appropriately.

Environmental conditions that can affect driving include weather, visibility, and road surface quality. All of these require drivers to be able to respond appropriately and adjust their driving to make sure the vehicle handles safely under the conditions present. This course reviews the risks posed by certain environmental conditions and explains the required driver responses to ensure safe vehicle operations in those conditions.

Course Duration: 1 hour(s)

Audience: Emergency Vehicle Operators

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

FLEET PROGRAM DANGERS OF SPEEDING FOR EMERGENCY VEHICLE OPERATORS

This course aims to make emergency vehicle drivers aware of the dangers involved in speeding, promote vehicle operations at safe speeds, and provide strategies for avoiding other speeding vehicles. Topics covered include what risks arise from excessive speed, how speed affects stopping distance, what economic costs stem from speeding, how to avoid becoming involved in a collision with a speeder, what factors to consider in choosing a safe speed for vehicle operation, and what factors influence drivers to speed.

Course Duration: 1 hour(s)

Audience: Emergency vehicle drivers

Prerequisite: No previous knowledge required

Regulatory Reference: None

FLEET PROGRAM DEFENSIVE DRIVING STRATEGIES FOR EMERGENCY VEHICLE OPERATORS

This course is aimed at preparing emergency vehicle operators for encountering potential hazards on the roadway. It follows a three-fold approach by encouraging drivers to anticipate, recognize, and respond to driving hazards. Within this framework, topics covered include principles of defensive driving, the need for driving defensively, practical instruction on how to drive defensively, instruction on maintaining a safety zone perimeter around the driver's vehicle, and effective braking distance.

Course Duration: 1 hour(s)

Audience: Drivers

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

FLEET PROGRAM DISTRACTED DRIVING FOR EMERGENCY VEHICLE OPERATORS

A brief gaze at a vehicle accident, a turn of the neck to look into the backseat, a routine cell phone conversation - these all have the potential to cause a deadly motor vehicle accident. According to the National Highway Traffic Safety Administration, six to 8.3 million drivers crashed in the past five years as a result of being distracted. Distracted driving is receiving increasing attention from both the media and legislators, but there is still a long way to go before drivers are fully aware of the hazards involved. On average, drivers require about 3/4 of a second to react. When a driver's attention is diverted from the roadway ahead of the vehicle, that reaction time can be drastically increased, and traumatic injury or fatality can be the tragic end result.

This course examines the problem of distracted driving and offers solutions and prevention measures for avoiding accidents due to distracted driving. Recent case studies are also presented along with a discussion of the lessons that can be learned from each.

Course Duration: 1 hour(s)

Audience: Emergency Vehicle Operators

Prerequisite: No prior knowledge is required.

Regulatory Reference: None



FLEET PROGRAM DRIVER SAFETY ORIENTATION FOR EMERGENCY VEHICLE OPERATORS

Roadways are a dangerous place for emergency responders. Since 1979 over 270 firefighters and emergency responders have died in accidents involving motor vehicles - this represents almost 25% of emergency responder deaths overall. Many more are injured annually from emergency vehicle related accidents. Preventing work-related roadway crashes requires strategies that combine traffic safety principles and sound safety management practices. Although fire departments cannot control roadway conditions, they can promote safe driving behavior by providing safety information to firefighters and by setting and enforcing driver safety policies. Crashes are not an unavoidable part of doing business.

Operating an emergency vehicle is a responsibility you should take seriously to minimize the risk of injury and death to yourself and others, as well as damage to expensive equipment. This course highlights the steps you can take to protect yourself and your fellow firefighters on the road.

Course Duration: 1 hour(s)

Audience: Emergency vehicle operators

Prerequisite: None

Regulatory Reference: None

FLEET PROGRAM EMERGENCY VEHICLE CHARACTERISTICS

Various kinds of vehicles are used by emergency responders. Each type has unique dimensions and mechanical components. Being familiar with these can help make vehicle operations safer.

This course reviews the various vehicle types used in the fire service and EMS industries, highlighting the unique features of these vehicles as well as the distinct handling requirements required for safe operation. An overview of safety enhancements, braking systems, and baffling systems is provided. The culmination of these discussions centers on applying the knowledge gained to reduce crash risks.

Course Duration: 1 hour(s)

Audience: Emergency Vehicle Operators

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

FLEET PROGRAM EMERGENCY VEHICLE OPERATIONS

This course aims to review the fundamentals of emergency vehicle driving. Using contemporary examples and statistics, the need for training on this subject is emphasized. Factors to consider in route planning are also reviewed. Special attention is given as well to proper start-up procedures, fundamentals of safe driving, defensive driving, and positioning safely at the emergency scene.

Course Duration: 1 hour(s)

Audience: Emergency vehicle operators

Prerequisite: No prior knowledge required.

Regulatory Reference: None

FLEET PROGRAM IMPAIRED DRIVING FOR EMERGENCY VEHICLE OPERATORS

The purpose of this course is to encourage safe driving practices among employees, reduce employers' costs due to incidents caused by impaired driving, and educate drivers on the factors that contribute to impaired driving. Driving is a common task required of many employees nationwide and even a small increase in safe driving practices can reduce the number of accidents and, most importantly, save lives. Due to the widespread nature of the alcohol-impaired driving problem in particular, special attention has been given to this problem.

Course Duration: 1 hour(s)

Audience: Drivers of Emergency Vehicles

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

FLEET PROGRAM INTERSECTION SAFETY FOR EMERGENCY VEHICLE OPERATORS

For emergency vehicle drivers, intersections are one of the most dangerous sections of the roadway. Numerous studies have shown that intersections are the most likely location for an emergency vehicle to be involved in a crash. The Federal Highway Administration (FHWA) lists intersection safety as one of its top priorities, and it recommends driver training as one of the keys to reducing motor vehicle crashes at intersections.

This course highlights the principles and practices emergency vehicle operators must consider for safely navigating through various types of intersections and examines the potential risks associated with the operation of vehicles at intersections. The course describes best practices for intersection safety, encourages the adoption of key safety practices to reduce vehicle-related crashes at intersections, and is divided into two sections: Lessons 1-10 review basic intersection safety and Lessons 11-13 discuss intersection safety when responding to an emergency. Vehicle crashes at intersections are preventable. Research indicates that driver error may account for approximately 90 percent of all crashes... don't become another statistic!

Course Duration: 1 hour(s)

Audience: Drivers.

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

FLEET PROGRAM LEGAL CONSIDERATIONS FOR EMERGENCY VEHICLE OPERATORS

This course reviews legal aspects of emergency vehicle operation, including appropriate vehicle procedures based upon federal, state, local, and organization regulations. It also reviews the need for compliance with traffic laws and appropriate conditions for exemption. Legal terms and principles discussed include due regard, true emergencies, negligence, and abandonment. Strategies for protection from liability are also covered.

Course Duration: 1 hour(s)

Audience: Emergency vehicle operators

Prerequisite: No prior knowledge is required.

Regulatory Reference: None.

FLEET PROGRAM SAFE BACKING FOR EMERGENCY VEHICLE OPERATORS

Most of a driver's time behind the wheel is spent while the vehicle is moving forward. The repetition and accumulation of experience can help drivers learn safe practices. But unfortunately this does not mean they will be equally good or safe when it comes to backing. Visibility is not as clear when backing, which poses a great risk. Statistics confirm that backing an emergency vehicle is one of the most dangerous driving activities. While they are seldom serious in terms of injury or death, they do account for a significant portion of overall damage costs. It is not hard to see why learning, reviewing, and practicing safe backing techniques is necessary to reduce emergency vehicle accidents.

This course focuses on the various safety precautions and techniques for backing safely in a number of situations. Topics such as safe backing procedures, using a spotter, blind spots, and adjusting mirrors are covered.

Course Duration: 1 hour(s)

Audience: Emergency Vehicle Operators

Prerequisite: None

Regulatory Reference: NFPA 1500

FLEET PROGRAM SEAT BELT & AIRBAG SAFETY FOR EMERGENCY VEHICLE OPERATORS

In 2006, it was estimated that 45% of people in the fire service industry did not wear their seat belts when riding in their fire engines. In 2007, it was reported that 50% of firefighters nationwide were still not using their seat belts. In fact, 12 firefighters died in the line of duty in 2007 in crashes in which they weren't wearing their seat belts. Even now, despite all the controversy surrounding the lack of seat belt usage in the fire industry, in some departments, over 90% don't use their seat belts when responding to a fire call.

Lack of seat belt use isn't just a problem in the fire industry. Alarmingly, over 42,000 people died nationwide in motor vehicle crashes in 2006, according to the National Highway Traffic Safety Administration (NHTSA). In over 50% of these fatal crashes, a significant cause of death was the driver or passenger's decision not to wear their seat belts. The point cannot be stated more clearly: Regular seat belt use is the single most effective way to protect people and reduce fatalities in vehicle collisions.

Course Duration: 1 hour(s)

Audience: Fleet

Prerequisite: No previous prerequisites required

Regulatory Reference: None



FLEET PROGRAM SECURING MATERIALS FOR TRANSPORTATION FOR EMERGENCY VEHICLE OPERATORS

This course covers the dangers of carrying materials in a vehicle, whether these are within the passenger compartment, in the trunk, in a storage compartment, or in a trailer. Drivers are instructed on the basic safety considerations for securing such materials properly so that the danger they pose is reduced. By remembering to check for loose materials before getting behind the wheel, and tying down or securing any loose materials that are identified, drivers can reduce the chance of causing serious injury to themselves or others.

Course Duration: 1 hour(s)

Audience: Emergency Vehicle Operators

Prerequisite: No previous knowledge required.

Regulatory Reference: None

FLEET PROGRAM VEHICLE INSPECTION AND MAINTENANCE FOR EMERGENCY VEHICLE OPERATORS

This course focuses on responsibility of emergency vehicle operators to inspect their vehicles and maintain them in good working condition. Critical and pertinent topics are covered such as what to inspect, how to document inspections, the cost-saving benefits of properly maintaining a vehicle, how to check tire pressure, and how to identify common vehicle problems before they contribute to costly major mechanical failures.

Course Duration: .5 hour(s)

Audience: Emergency vehicle operators

Prerequisite: No prior knowledge is required.

Regulatory Reference: None



FLEET PROGRAM VEHICLE SAFETY AND SECURITY FOR EMERGENCY VEHICLE OPERATORS

An unfortunate reality that every fire department has to deal with is the security and protection of its vehicles. According to the FBI, a vehicle is stolen in the U.S. every 26.4 seconds. In addition to vehicle theft, a surprising amount of other causes of damage and loss of property, as well as injury and fatality to personnel, is sustained every year by vehicle operators and the organizations they represent behind the wheel. Greater attention to security and safety measures of protection should be implemented to effectively curb this trend, contain the losses, and save lives. This course is dedicated to educating fire personnel and improving vehicle safety and security. Receiving particular emphasis in this course are the areas of preventing vehicle theft and enhancing the personal safety of vehicle occupants. Regarding vehicle security, topics covered include, among others, how to secure a vehicle safely when parking, what security devices can be installed to enhance protection, and how to follow a comprehensive "layered" approach to vehicle security. While theft of fire apparatus is not a huge concern for fire departments (though it does occur), the tips for vehicle security are relevant to all vehicles used by fire personnel, including personal automobiles. Vehicle safety is also featured prominently in this course, and topics such as safety tips for protecting vehicle occupants from injury in a collision and properly using vehicle-equipped safety devices are discussed.

Course Duration: 1 hour(s)

Audience: Emergency Vehicle Operators

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

NFPA 1001 BUILDING CONSTRUCTION

A solid knowledge of the fundamentals of building construction is crucial to the proper understanding of firefighting. An understanding of building construction will also serve to significantly reduce risks that may be incurred while fighting fires. A lack of consideration for the construction characteristics of a building can lead to deadly error during the course of fire suppression. Properly informed firefighters are less likely to perform actions, which endanger themselves, others, or the long-term stability of any building affected by a fire. This course will cover the basic elements of building construction and related hazards.

Course Duration: 1 hour(s)

Audience: Firefighter I/II

Prerequisite: None

Regulatory Reference: NFPA 1001

NFPA 1001 FIRE BEHAVIOR

To safely and effectively manage fire, firefighters must understand the science behind how fires start, how fires spread, and how fires can be extinguished. This information provides the basis for helping firefighters interpret what they encounter on the scene of a fire and select the proper tactics to safely fight a fire. This course reviews the fundamentals of fire behavior, including the fire tetrahedron, types of fuel, products of combustion, and the phases of fire development. Specifically, this course focuses on fire behavior in structure fires. This course has 11 learning modules and a 10 questions exam.

Course Duration: 1 hour(s)

Audience: Firefighter I and II

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001

NFPA 1001 FIRE CONTROL

Fire control is a task in which all of a firefighter's training, experience, and skills are put to the test. To a greater extent than any of a firefighter's many other job responsibilities, the task of fire control imposes extreme demands squarely on the shoulders of every responding firefighter, requiring each crewmember to contribute to the department's overall knockdown efforts with selflessness, professionalism, and efficiency. In this game, errors can be costly. Lives and property will be lost or saved depending on the success of the department's combined efforts in fire control. This course focuses on the tactical side of fire suppression. Topics include an introduction to fire control and the basics of fire extinguishment, treatment of general distinctions between fire types, general background information on fire control followed by specific application to structural fire scenarios including single and multistory buildings. Material is also provided on working with fire control devices pre-installed in buildings. Primary focus is devoted to structural fires, although non-structural fires are also covered in their own lesson.

Course Duration: 1 hour(s)

Audience: Firefighter I/II

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001

NFPA 1001 FIRE DEPARTMENT COMMUNICATIONS

This course focuses on the various tasks involving communication in the fire service. Beginning with a discussion of the importance of a communications plan and the functions of various communications hardware components, the course incorporates topics such as the communicative roles and responsibilities of personnel, especially dispatchers, and communications at fireground. Information about recordkeeping and interfacing with public agencies and media rounds out the discussion. The course aims to impress upon personnel the importance of effective communication and enhance their communicative ability.

Course Duration: 1 hour(s)

Audience: Firefighter I/II

Prerequisite: No previous knowledge required.

Regulatory Reference: NFPA 1001



NFPA 1001 FIRE DETECTION, ALARM & SUPPRESSION SYSTEMS

This course emphasizes the importance of fire protection systems as preliminary fire control agents. Firefighters are encouraged to see these systems as allies in their firefighting task. Course topics range from practical concerns such as how fire detection and alarm systems operate to technical discussion on what factors distinguish the different kinds of detection system devices. The course concludes by reinforcing the importance of pre-planning and suggesting strategies for taking full advantage of the capabilities of installed fire protection systems.

Course Duration: 1 hour(s)

Audience: Firefighter I/II

Prerequisite: None

Regulatory Reference: NFPA 1001

NFPA 1001 FIRE HOSE

The fire service is dependent upon the fire hose; without it, large-scale, modern firefighting would be impossible. Fire personnel must understand the standards that fire hose must meet and should ensure that fire hose is properly maintained to survive the rigors of firefighting. Fire personnel also need to possess a solid knowledge of the various types of fire hoses and hose couplings, basic hose lay procedures, the handling of hose lines, and service testing to ensure the integrity of the hose. This course will provide an introduction to all of these aspects of fire hose for fire personnel.

Course Duration: 1 hour(s)

Audience: Firefighters

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001

NFPA 1001 FIRE PREVENTION AND PUBLIC EDUCATION

Public education is a large part of fire service. As education and prevention is emphasized within a particular jurisdiction, the occurrence of fires generally decreases. Because the public is made more aware of dangerous practices and procedures, they are better equipped to work with the department to prevent fires. In areas with enough education, the public is also better equipped to respond appropriately to an incident.

Firefighters increase community awareness of fire safety in a number of ways. They conduct fire safety surveys, which serve to identify areas of particular risk and enable agencies to work with the public to mitigate the dangers. They may also create education materials for distribution in the community, teach classes, and give tours of the fire station. A fire department can maximize safety and prevention in its jurisdiction by taking an active role in public education and fire prevention and understanding the critical role played by its interaction with the public. This course will provide a basic overview of some of the most commonly encountered fire hazards and the methods fire departments can use to raise public awareness of fire safety and prevention.

Course Duration: 1 hour(s)

Audience: Firefighter I/II

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001

NFPA 1001 FIRE STREAMS

The majority of fires are extinguished using water or some other substance delivered under pressure. In fact, the vast majority of training and skills that a firefighter might be called upon to deliver depend upon the successful use and deployment of fire streams.

This course will examine the various types of fire stream and how they are deployed: Which hardware is used to produce effective fire streams? Which stream is appropriate for a particular type of fire or area? What concerns besides extinguishing the fire as quickly as possible must be considered? Although this course does not substitute for practical training, the concepts and ideas covered here can help you succeed in your fire organization career.

Course Duration: 1 hour(s)

Audience: Firefighter I and II

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001

NFPA 1001 FIREFIGHTER ORIENTATION AND SAFETY

Firefighting is an inherently hazardous occupation. Each year, firefighters are killed or injured in the line of duty. It is the responsibility of every firefighter to maintain the basic skills and knowledge required to perform safely as team members of a fire department during emergency operations. The purpose of this course is to provide an overview of the organizational structures in place to ensure a safe, organized emergency response, as well as general safety precautions for working on the fire apparatus, around the fire station, and on the scene of an emergency.

Course Duration: 1 hour(s)

Audience: Firefighter I and II

Prerequisite: None

Regulatory Reference: NFPA 1001; 23 CFR 634

NFPA 1001 FIREFIGHTER PERSONAL PROTECTIVE EQUIPMENT

Fire fighter clothing employs two strategies for protecting fire fighters from heat. First, it uses air to insulate the body. Air does not conduct heat as effectively as solid materials so it provides an extra buffer of protection between your body and the clothing. Second, clothing is made of heat-resistant materials. The material is specially selected and treated to be able to absorb a substantial amount of heat without burning. Wearing the right protective equipment can make the difference between life and death. For this reason it is imperative that fire fighters regularly receive refresher training on PPE.

This course reviews the various types of PPE available to fire department personnel as well as their uses, limitations, and regulatory compliance. The course is not intended to substitute for hands-on training with PPE. Such training must be offered by the department in order to fully comply with OSHA.

Course Duration: 1 hour(s)

Audience: Firefighter I and II

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1404, 1500, 1581, 1971, 1975, 1977, 1982, ANSI Z87.1; 23 CFR 634

NFPA 1001 FIREFIGHTING FOAMS

Foam is widely considered the best fire suppression/firefighting agent for class B fires, and is increasingly used with a high degree of effectiveness for fighting class A fires as well. Its ability to smother fuels and provide a protection barrier for firefighters are unmatched. A wide variety of foams is available commercially and technology continues to change and introduce new agents for departments to consider. While the effectiveness of foams has received increasing recognition, misunderstandings about foam persist and departments continue to highlight the need for training in this area.

This course provides an overview of the effectiveness of foams, reviews the various types of foams available, and describes how foams work. Discussion also focuses on distinguishing between class A and B foams, properly proportioning foam solutions, and matching foam types with the appropriate nozzle or generator. Tactical application strategies and troubleshooting tips are presented as well as the various potential hazards for personnel to keep in mind when using foam.

Course Duration: 1 hour(s)

Audience: Firefighters I/II

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA 1001

NFPA 1001 FORCIBLE ENTRY INTO A STRUCTURE

Forcible entry is the act of entering a structure using destructive means. During the course of a firefighter's duties, situations often arise that require forcible entry into a structure. Applying the techniques and strategies of forcible entry can help save lives, minimize damage to property, and result in better public relations.

This course covers the knowledge and skills necessary to perform forcible entry efficiently and safely. The content includes the definition of forcible entry and why it is used, how to select the appropriate location to enter, basic considerations for entry, and how to care for forcible entry tools.

Course Duration: 1 hour(s)

Audience: Firefighter I/II

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001



NFPA 1001 GROUND LADDERS

Fire department ladders are much like other ladders. However, they tend to be stronger than ladders used for commercial or residential uses because of the adverse conditions in which they are used. Fire department ladders may be wood, aluminum, fiberglass or a combination of these materials.

Fire department personnel must be knowledgeable in the design, characteristics, and proper use of fire department ladders. This course highlights the types of ladders used in fire operations, ladder maintenance, and how to safely carry and place ladders.

Course Duration: 1 hour(s)

Audience: Firefighters

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001

NFPA 1001 LOSS CONTROL

This course discusses loss control as a key element in all fire service operations. It explains the need for salvage operations planning and how to conduct salvage operations. The various methods of using storage covers are also discussed along with ways to contain smoke and water damage. In addition to salvage operations, overhaul is also discussed as a primary means of loss control. Finally, and of critical importance in this course, particular emphasis is devoted to meeting the needs of fire victims.

Course Duration: 1 hour(s)

Audience: Firefighters

Prerequisite: No previous knowledge required.

Regulatory Reference: None

NFPA 1001 PORTABLE EXTINGUISHERS

Portable fire extinguishers are an important early intervention tool for attacking small fires. When used effectively, they can prevent a fire from growing out of control, which limits the damages and risks involved. They can also be used in areas inaccessible to hoses, such as when attacking wildland fires. It is most important to know what kind of extinguisher to use and how to use it properly. This knowledge is not only vital for firefighters' own use, but for educating the general public as well.

Course Duration: 1 hour(s)

Audience: Firefighter I/II

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001



NFPA 1001 PROTECTION OF EVIDENCE OF FIRE ORIGIN & CAUSE

This course covers basic fire investigation concepts, highlighting the role of first responders in the fire investigation process, including the identification of the signs of fire origin and cause and the examination of the methods used during fire extinguishment to ensure safety and preservation of evidence. In addition, the course reviews the legal requirements of the chain of evidence and fire investigation safety.

Course Duration: 1 hour(s)

Audience: Firefighter I and II

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001

NFPA 1001 RESCUE AND EXTRICATION

Search and rescue in a structure is critical. The majority of structure fires are put out before significant damage is done, but when the structure burns while people are trapped inside, the firefighter must ensure that all areas are searched and all victims are located and removed. Searches must be conducted quickly and safely. Team integrity must be maintained, as well. Victims, and sometimes fellow firefighters, may have to be physically carried or dragged from the structure, often under adverse conditions. There is a wide array of tools and equipment available to facilitate search and rescue, but ultimately it is the firefighter's training and experience that get the job done.

This course describes the best methods for conducting safe, effective, and efficient searches, use of the PASS system, and ways to identify and use key rescue and extrication tools and equipment.

Course Duration: 1 hour(s)

Audience: Firefighters

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001

NFPA 1001 SELF-CONTAINED BREATHING APPARATUS

This course focuses on enforcing proper SCBA use and understanding the conditions requiring such use. Federal and NFPA regulations are discussed as well as the importance of fit testing and safe usage. The course also describes various types of SCBA and how they can limit firefighter performance, SCBA malfunctions and emergencies, and reviews proper maintenance and inspection procedures.

Course Duration: 1 hour(s)

Audience: Firefighter I and II

Prerequisite: No previous knowledge required.

Regulatory Reference: NFPA 1001

NFPA 1001 VEHICLE EXTRICATION

One of the most common situations encountered by today's firefighters is automobile accidents. Automobile accidents are more commonly encountered than structure fires and have a much stronger tendency to put people at risk. Often, in the case of severe vehicle crashes, drivers or passengers may become entrapped in their cars, requiring fire personnel to perform vehicle extrication. In order to safely and efficiently free patients from their vehicles, firefighters must develop the skills necessary to coordinate with the police and EMS personnel. This coordination will help to minimize risks to both patients and rescuers.

Upon completion of this course, the student should better understand the firefighter's role at special rescue operations, the hazards associated with these operations, and the types and uses of rescue tools involved with vehicle extrication. This course, like our other fire instruction courses, does not serve to substitute for practical, hands-on training. However, this course can provide a more comprehensive overview of vehicle extrication safety principles than certain practical courses, and the student is urged to pay particular attention to the lessons covering safety. Safety areas covered in this course include safety at the scene and the means to ensure safety when dealing with vehicle systems which present known hazards.

Course Duration: 1 hour(s)

Audience: Firefighter I and II

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001; 23 CFR 634

NFPA 1001 VENTILATION

Ventilation is the practice of opening parts of a structure in order to remove heat, smoke, and toxic gases, replacing these combustion products with cooler air. Proper ventilation leads to better visibility, lower temperatures, the reduced possibility of flashover, and reduces smoke damage to the affected property. Additional advantages of ventilation include the easier rescue of victims and increased ability to attack the fire. Ventilation requires full personal protective equipment and should not be attempted without qualified training. There are several different types of ventilation, and this course will examine each of those briefly.

Course Duration: 1 hour(s)

Audience: Firefighter I and II

Prerequisite: None

Regulatory Reference: NFPA 1001



NFPA 1001 WATER SUPPLY

Knowledge of water supply systems is an integral part of fire operations. Water is the primary extinguishing agent for fires, and for that reason firefighters must possess a solid knowledge of water supply. If water were to run out during an incident, firefighters could become trapped, injured, or killed. Firefighters must understand the principal aspects of water supply systems, how and where to access water, and what to do to prevent running out of water in an emergency. This course provides fire personnel with a basic overview of water supply systems, fire hydrants, and rural water supply operations.

Course Duration: 1 hour(s)

Audience: Firefighters

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1001

NFPA 1021 ACTION PLAN IMPLEMENTATION

An incident action plan sets the strategy that guides efforts in a response. Whether it is formulated mentally by the first-arriving officer or written down and revised as events unfold, the action plan is what transforms strategic goals into tactical objectives, which are used to assign tasks and resources to all units involved.

This course equips fire officers with the knowledge and ability to devise and implement an action plan for emergency responses. Various topics are discussed, including how to determine incident priorities and tactical objectives, how to break down an emergency scene into manageable parts, and how to allocate resources and assign tasks.

Course Duration: 1 hour(s)

Audience: Fire officers

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA 1021

NFPA 1021 ASSUMING THE ROLE OF COMPANY OFFICER

After having served as a member of a fire company for some years, you have become highly skilled at using the tools of your trade. You may feel that your skills and abilities should allow you the opportunity to become a company officer, and this course will help explore the differences between being a firefighter or driver/operator and being a company officer. The job requirements are very different, as are the skills required. This course discusses the transition from firefighter to company officer and the knowledge and abilities that a fire officer must possess to be successful in the company officer role. This course has 10 lessons with a 10 question exam.

Course Duration: 1 hour(s)

Audience: Fire Officer Prerequisite: None

Regulatory Reference: NFPA 1021

NFPA 1021 BUDGETING

Budgeting is a fundamental administrative task in the fire service, and company officers are becoming increasingly more involved in the budgeting process. For this reason, it is important that company officers understand the process and the tasks they may be expected to perform. NFPA 1021, Standard for Fire Officer Professional Qualifications, requires that company officers be able to prepare a budget request to obtain the items needed to operate their stations and companies. As company officers become more familiar with the budgeting process, they will be better prepared for the more significant budget responsibilities that come with higher rank.

This course provides an overview of the budgeting process. Various related topics are discussed including the budget cycle, the various kinds of budgets, and understanding revenues in the fire service. Additionally, the course covers strategies for coping with budgeting difficulties in times of economic hardship.

Course Duration: 1 hour(s)

Audience: Fire Officers

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA 1021

NFPA 1021 COMMUNITY AWARENESS

Educating the public on fire safety issues is one of the most important tasks in the fire service. It helps minimize risks and prevent fire-related emergencies. Consider the issue of smoke alarms, for example. The main reason smoke alarms fail to operate during home fires is or disconnected batteries. In house fires during 2003 to 2006, smoke alarms functioned less than 50% of the time. Additionally, among all home fires that resulted in at least one fatality, 40% of the homes had no smoke alarm present. These issues could easily be addressed in a community fire safety education program.

Community awareness is a prerequisite for effective fire safety education. Knowing the needs and risks in the community can call attention to issues that should be addressed. Similarly, public relations are also a means of educating the public, informing them on the department's activities, and calling attention to safety issues. This course focuses on providing proactive strategies of community engagement while balancing that with the need to remain always prepared to respond to opportunities to call attention to safety issues through community outreach programs, through the media, and on an individual basis. It also discusses skills and strategies for press releases and methods of responding to citizen's concerns and complaints.

Course Duration: 1 hour(s)

Audience: Fire Officers

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA 1021



NFPA 1021 COMPANY-LEVEL TRAINING

Training is an essential part of every fire company. It is what keeps a fire company ready for an effective and safe response. Behind every truly successful emergency response lies a commitment to learning and improvement. A lapse in training or an attitude of indifference in this area can have direct results on how well fire fighters perform their duties. The company officer plays a key role not only in offering training opportunities but also in creating and fostering an environment where training is valued.

This course aims to equip company officers with the knowledge required to conduct training successfully at the company level. The course reviews topics such as the benefits of company-level training, the company officer's responsibilities in training, and how to assess a company's training needs. Particular attention is devoted to developing a company-level training program. Additionally, safety aspects of live-fire training and physical training are also discussed. By learning how to implement and conduct company-level training, officers will be empowered with the ability to make sure their company is prepared for whatever emergency challenge they may face.

Course Duration: 1 hour(s)

Audience: Fire officers

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA 1021, NFPA 1021 Elements of Supervision and Management

NFPA 1021 ELEMENTS OF SUPERVISION AND MANAGEMENT

Being a company officer, means shouldering leadership responsibilities both at the station house and at the fireground. Too often, officers may have strong managerial abilities at the station house and weak supervisory skills at the fireground, or vice versa. The challenge for the officer is to strive to demonstrate excellent leadership in every situation. This course focuses on equipping officers with both the knowledge and the know how to effectively carryout their leadership in the two areas of supervision and management. To do this, the course reviews a broad range of topics, ranging from the theoretical--such as a brief historical overview of management theories up to the present--to the practical, such as basic principles of budgeting and administrative duties.

Course Duration: 1 hour(s)

Audience: Fire officers

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA



NFPA 1021 FIRE AND LIFE SAFETY INSPECTIONS

Safety inspections are among the most critical duties performed by fire personnel in the course of their careers. Properly performed, these inspections help identify risks before any incident occurs. They also help business owners and property managers prioritize any work needed to bring a building up to code or to reduce or eliminate evident risks. Fire personnel must be familiar with a set of general inspection techniques; they may also require specialized training depending on the local industrial base.

Fire inspections are performed in concert with property owners and managers. Inspectors should remember that some facilities possess security concerns outside their normal experience. In this case, they should defer to facility management as to the risks, which might be present. In the absence of proper safety procedures, the investigator must use the full force of law available to force compliance. At first, some issues may not seem relevant enough to force compliance. For example, the mislabeling of a chemical may seem like a small issue; however, it has the potential to cause harm or even death. Because fire and life safety inspections are so effective at preventing major damage, injury, and death, they are the mainstay of a jurisdiction's comprehensive safety management program.

Course Duration: 1 hour(s)

Audience: Fire Officers

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1021

NFPA 1021 FIRE DEPARTMENT COMMUNICATIONS

Communication is critical to the achievement of a fire department's objectives. It is also a fundamental function of leadership. Fire officers are vital links in the chain of communication stretching from the fire chief to new recruits. If communication is ineffective then important information is lost, leading to misunderstandings and even mission failure. This course provides an overview of the communications process with an emphasis on enhancing officers' communicative abilities and recognizing and avoiding barriers to effective communication. The course is primarily concerned with oral communication and includes discussion on topics such as understanding the various elements of the communication process, improving speaking and listening skills, and understanding the role of nonverbal cues.

Course Duration: 1 hour(s)

Audience: Fire Officers

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA 1021

NFPA 1021 FIRE DEPARTMENT STRUCTURE

It is important that all firefighters understand the structure of their departments or fire protection agencies. A lack of knowledge in this vital area can lead to misunderstanding, inefficiency, and worst of all, can complicate emergency operations. Firefighters must also have a solid understanding of the various kinds of fire protection agencies that exist and how their own departments may interact with other organizations under the Incident Command System. This course reviews the various organizational structures of a fire department, both at the macro and micro levels. It also provides an overview of the unique mission, roles, and organizational principles of fire departments and identifies the distinctions between public and private fire protection agencies, career and volunteer firefighters, and line and staff personnel.

Course Duration: 1 hour(s)

Audience: Fire Officer

Prerequisite: None

Regulatory Reference: NFPA 1021

NFPA 1021 FIRE INVESTIGATION

In addition to their other duties at fires, company officers are responsible for securing the scene of a fire and protecting possible evidence until the cause of the fire has been determined. In some departments, fire company officers are responsible for making the preliminary cause determination. These requirements dictate that company officers have a deep understanding of fire behavior, investigation techniques, and the importance of proper documentation. This course discusses the company officer's responsibilities regarding fire cause determination, scene security, and evidence preservation. Also covered are the investigations of accidental, natural, and incendiary fires, as well as proper documentation procedures for the investigation. This course has 10 lessons with a 10 question exam.

Course Duration: 1 hour(s)

Audience: Fire Officers

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1021



NFPA 1021 FIREFIGHTER SAFETY AND HEALTH

Firefighting is an inherently hazardous occupation, but that does not imply that some of these hazards cannot be prevented or at least minimized. Countless injuries occur yearly that could have been prevented if greater attention had been paid beforehand to the risks involved. By taking responsibility for the safety and health of department members, fire officers can play an important role in reducing these risks.

This course provides a general overview of health and safety issues that confront members of the fire service. The course introduces current local, state, and federal laws pertaining to occupational safety and health that apply to fire officers. It emphasizes the importance of identifying occupational hazards that exist--both actual and potential. Factors related to physical and mental fitness and basic health, such as basic knowledge of exercise physiology, good nutrition, and stress management, are also reviewed.

Course Duration: 1 hour(s)

Audience: Fire Officer

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1021, 1500; 23 CFR 634

NFPA 1021 GOVERNMENT STRUCTURE

Most fire departments are units of the local government, and as members of a government entity, fire officers need to recognize how their department fits into the broader structures of local, state, and federal governments. This enables officers to work together with the community and to see their individual concerns from the perspective of the best overall interest of the city, the state, and the nation.

This course provides an overview of federal, state, and local government structures, agencies, and functions with a focus on their relevance to the fire department. Of these, particular attention has been given to local governments and the importance of recognizing the fire department's place within them. The course also provides an overview of the different types of local governments a department may encounter and the ways laws are made.

Course Duration: 1 hour(s)

Audience: Firefighters and Company Officers

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA



NFPA 1021 INCIDENT RESPONSE SAFETY

Firefighting has been described as one of the nation's most hazardous occupations, and fire officers play an important role in helping themselves and other personnel minimize those hazards. On average, there are nearly 100 deaths per year in the fire service, and there are countless more injuries, both reported and unreported. While the number of deaths has been declining in recent years, there is still room for improvement, and many preventable risk factors need to be addressed. This course provides a general overview of health and safety issues that confront members of the fire service when responding to various emergency incidents. The course surveys the types of general hazards that can be encountered due to environmental conditions or dangers present at the scene and provides an analysis of the hazards present in each type of emergency response. Safety precautions for each kind of response are proposed. The course also discusses the importance and function of a Rehabilitation Area.

Course Duration: 1 hour(s)

Audience: Fire officer

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1021, 1500; 23 CFR 634

NFPA 1021 INCIDENT SCENE COMMUNICATIONS

The importance of clear and effective communication at the scene of an incident cannot be overstated. A miscommunication or lack of communication at either end of the communicative process, transmitting or receiving, can lead to costly setback or even failure in incident operations. In the high stakes environment of the fireground there is no room for communication breakdown.

This course focuses on conveying to firefighters the importance of clear and effective communication in incident responses. The various kinds of communication, the components that comprise a department's communications system and the intrinsic relationship between ICS and communication are highlighted. In addition, six critical junctures of communication during incident operations are reviewed.

Course Duration: 1 hour(s)

Audience: Fire Officers

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1021



NFPA 1021 INCIDENT SCENE MANAGEMENT

How an incident scene is managed can determine the overall effectiveness of a department's response. Proper scene management can minimize firefighters' exposure to risk and maximize the efficiency of their interventions, whether they are aimed at life safety, incident stabilization, or property conservation.

This course provides an overview of the responsibilities and tasks associated with incident scene management. It discusses topics such as scene safety, performing size-up, and managing the various components of an incident.

Course Duration: 1 hour(s)

Audience: Fire officers

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA 1021

NFPA 1021 INFORMATION MANAGEMENT

Information is a commodity intrinsic to nearly every activity in the fire service. Information is transmitted from instructor to students during training exercises. It is relayed from dispatch to officers in emergency incidents. Pre-incident plans, another type of information, are retrieved by the Incident Commander (IC) at the scene. Letters and press releases contain information that is often made available to the public through local government officials or the news media. Activities like these all require effective information management.

This course provides an overview of information management in the fire service. It reinforces the importance of effective information management and covers a range of topics, including principles of good writing, types of written communication, reporting, and recordkeeping. Discussion is also devoted to the use of technology in the task of information management.

Course Duration: 1 hour(s)

Audience: Fire Officers

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA 1021

NFPA 1021 LABOR RELATIONS

Firefighters today enjoy much better working conditions than their early predecessors. While many of the improvements can be attributed to general societal progress, or to better equipment, more training, or increased attention to health and safety, organized labor has also played a significant role in many of the improvements. As firefighters recognize the valuable roles of both organized labor and management in the fire service, labor-management relations can improve and progress can be made in cooperating to serve the community well.

This course provides an overview of labor relations with an emphasis on practical solutions for maintaining positive relations between labor and management. Topics discussed include legislation on labor issues, types of labor actions, grievance procedures, and conflict resolution, including mediation and arbitration.

Course Duration: 1 hour(s)

Audience: Fire Officers

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1021

NFPA 1021 LEADERSHIP AS A GROUP INFLUENCE

With elements such as chain of command, rankings, and standard operating procedures, the fire service has a lot of "built-in" hierarchy and protocol that is conducive to fostering a leader-follower type of environment. However, having such elements does not automatically make every officer an effective leader. Leadership is a skill to be developed and passed on. It is especially critical in the fire service, as it applies to nearly every aspect of operations, whether at the firehouse, the emergency scene, or in the community. Since solid leadership is so important to being an effective fire officer, every officer bears responsibility for learning and developing this skill.

This course focuses on equipping fire officers with the knowledge to become effective leaders. Specific attention is given to aspects of leadership that pertain to leading a group. Topics include the various kinds of power in leadership and their respective advantages and disadvantages, theories on leadership and their pertinence to the fire service, styles of leadership and methods of applying these styles to the role of the fire officer, and the importance of recognizing group dynamics and diversity.

Course Duration: 1 hour(s)

Audience: Fire Officer

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA 1021

NFPA 1021 LEGAL RESPONSIBILITIES AND LIABILITIES

A number of recent tragic incidents have served as a wake-up call to the need for focusing greater attention on legal issues in the fire service. Departments can be cited and fined by OSHA or other agencies for lack of training, documentation, or compliance with specific sections of the law.

This course focuses on the legislation and standards that affect firefighters and the ongoing mitigation efforts that should be in place in a fire department. Regulatory and standards compliance, thorough documentation, and ongoing training are emphasized in this course as forming the basis for protecting the fire department from liability.

The course provides general information on legal issues mainly concerned with Federal law. In many areas, State law may also be applicable. Departments should also provide training on applicable laws in their own States. If legal advice or other expert assistance is required for implementing liability reduction strategies in your department, seek the services of a competent legal professional who is aware of the unique issues faced by emergency fire and rescue personnel.

Course Duration: 1 hour(s)

Audience: Fire Officer

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1021

NFPA 1021 PRE-INCIDENT PLANNING

Protecting a community from fires and other emergency incidents requires more than merely responding to the alarm. In fact, by then, sometimes it may be too late; much of the damage may already have been done. A more comprehensive solution is needed to provide adequate emergency management, one that can identify and address hazards so that in the event a response is needed, personnel will be fully prepared, being already familiar and trained to meet the unique needs of the property at hand. For these reasons, pre-incident planning is just as critical a task for the fire department as firefighting. It is the frontline attack in the firefighting arsenal, a proactive way of fighting fires as opposed to the reactive way of responding to alarms.

This course reviews the concept of pre-incident planning and reiterates the importance of conducting such planning in a thorough and effective manner. The primary elements of pre-incident planning are discussed, including gathering information (i.e., performing the property survey), recording that information, and using that information effectively, both in training and during a response. Importance is also placed on the need for keeping pre-incident plans up to date and revisiting properties regularly to identify any new hazards or factors that may require revision of the plan.

Course Duration: 1 hour(s)

Audience: Fire Officers

Prerequisite: No prior knowledge is required.

Regulatory Reference: NFPA 1021



NFPA 1021 PROFESSIONAL ETHICS

From the moment a fresh recruit first dons the uniform, he or she takes on the mantle of responsibility as a public servant. Both volunteer and career fire fighters are relied upon to provide a number of valuable services and to maintain a high level of efficiency, effectiveness, and diligence in performing those services, whether they involve direct interaction with the public, such as responding to a roaring house fire, or are more "behind the scenes," such as hazmat readiness training.

While on duty, every member of the fire service is accountable to those that entrust their lives and properties to their care. As leaders, officers play an invaluable role in maintaining these standards of behavior and service and ensuring that their crew members honor their commitment to the public, to each other, and to the department.

This course reinforces the foundational role of ethics in the fire service and highlights the practical value of ethics in deciding on the proper course of action. After defining ethics and providing examples of ethical violations, the course discusses the central role of ethics in public service, the ethical principles required in the fire service, and practical ways of leading ethically and instilling ethical values in others.

Course Duration: 1 hour(s)

Audience: Fire officers

Prerequisite: No prior knowledge required

Regulatory Reference: NFPA 1021

NFPA 1021 PUBLIC EDUCATION PROGRAMS

Providing fire and injury prevention programs is one of the most important services a department can provide to the community. This course prepares fire officers to develop, implement, and evaluate effective public education programs that have lasting impact in the community. The course closely follows the five steps in public fire education planning outlined by the U.S. Fire Administration. In addition, it includes tips and strategies for understanding audiences and giving presentations.

Course Duration: 1 hour(s)

Audience: Fire officers

Prerequisite: No prior knowledge is required.

Regulatory Reference: None

NFPA 1403 LIVE FIRE TRAINING EVOLUTIONS

Although the number of on-duty firefighter fatalities has been declining, the proportion of deaths related to training has been increasing, according to NFPA data. In the last decade, over 100 firefighters have died during training activities, and live-fire training is typically a leading cause of training-related fatalities.

This course reviews live-burn evolutions and emphasizes the importance of safety and compliance with state regulations, NFPA standards, and local policies, and procedures established to maintain training effectiveness without compromising safety.

Course Duration: 1 hour(s)

Audience: Fire Instructors

Prerequisite: None

Regulatory Reference: NFPA 1403

NFPA 1500 ADVANCED HAZWOPER AWARENESS (MOD #1)

A hazardous materials incident is defined as the release, or suspected release, of a hazardous material into the environment. Even with the best prevention methods in place, hazardous materials incidents are bound to happen. Understanding the nature of the hazardous materials you work with, and how to respond to an incident or potential incident will help you quickly manage a dangerous situation and minimize damage done to persons, the environment, and facilities. Being able to recognize and quickly request the appropriate aid is the main responsibility of first responders at the awareness level. First responders at the awareness level are typically workers likely to witness or discover a hazardous materials release within the course of their normal duties. This course is specifically designed to review the basics of hazardous materials that awareness level first responders must know.

NOTE: This course must be supplemented by an assessment of hands-on performance of work tasks. These are services that TargetSolutions does not provide and should be procured through your management or training coordinator.

Course Duration: 2 hour(s)

Audience: All employees who are exposed to hazardous substances, health hazards, or safety hazards and their supervisors and management responsible for the site shall receive training to meet the requirements of the annual HAZWOPER 8-hour refresher course.

Prerequisite: Must have already completed the initial awareness training prior to taking Module I.

Regulatory Reference: OSHA 29 CFR1910.120 (q) (8)



NFPA 1500 ADVANCED HAZWOPER AWARENESS (MOD #2)

Identifying hazardous substances is an important part of HAZWOPER awareness. It is essential to recognize how hazardous substances are labeled and identified. This course discusses the different methods of hazard identification, the use of safety data sheets, and what materials are available to you for understanding the properties and hazards of certain chemicals. This training program consists of four modules. To maximize knowledge on the topic, it is recommended that you take all four modules.

NOTE: This course must be supplemented by an assessment of hands-on performance of work tasks. These are services that TargetSolutions does not provide and should be procured through your management or training coordinator.

Course Duration: 2 hour(s)

Audience: All employees who are exposed to hazardous substances, health hazards, or safety hazards and their supervisors and management responsible for the site shall receive training to meet the requirements of the annual HAZWOPER 8-hour refresher course.

Prerequisite: Must have completed the initial training as well as Advanced HAZWOPER Awareness Module 1.

Regulatory Reference: OSHA 29 CFR1910.120 (q) (8)

NFPA 1500 ADVANCED HAZWOPER AWARENESS (MOD #3)

When working with hazardous chemicals, understanding its effects on the body, the possible routes of entry and basic toxicology will help you prevent and minimize toxic exposures. In addition to these topics, this course discusses ways to protect against hazardous exposure through the use of safety controls. It also discusses the different types of personal protective equipment (PPE), how to properly test safety equipment, and the limitations of personal protective equipment.

This training program consists of four modules. To maximize knowledge on the topic, it is recommended that you take all four modules.

NOTE: This course must be supplemented by an assessment of hands-on performance of work tasks. These are services that TargetSolutions does not provide and should be procured through your management or training coordinator.

Course Duration: 2 hour(s)

Audience: All employees who are exposed to hazardous substances, health hazards, or safety hazards and their supervisors and management responsible for the site shall receive training to meet the requirements of the annual HAZWOPER 8-hour refresher course.

Prerequisite: Must have completed the annual training as well as Advanced HAZWOPER Awareness Module 1 and Module 2.

Regulatory Reference: OSHA 29 CFR1910.120 (q) (8)



NFPA 1500 ADVANCED HAZWOPER AWARENESS (MOD #4)

Understanding your role in the event of a hazardous materials incident will help streamline operations and minimize damage to life, the environment, and property. This course will outline steps to take to avoid hazardous materials emergencies, and the role of first responders with a special emphasis on the awareness level first responder. The incident command system and decontamination procedures will also be addressed. This training program consists of four modules. To maximize knowledge on the topic, it is recommended that you take all four modules.

NOTE: This course must be supplemented by an assessment of hands-on performance of work tasks. These are services that TargetSolutions does not provide and should be procured through your management or training coordinator.

Course Duration: 2 hour(s)

Audience: All employees who are exposed to hazardous substances, health hazards, or safety hazards and their supervisors and management responsible for the site shall receive training to meet the requirements of the annual HAZWOPER 8-hour refresher course.

Prerequisite: Must have completed the initial training as well as Advanced HAZWOPER Awareness Modules 1, 2 and 3.

Regulatory Reference: OSHA 29 CFR 1910.120 (q) (8)

NFPA 1500 BLOODBORNE PATHOGENS SAFETY

Blood and other potentially infectious materials pose a serious threat to employees who are exposed to these materials. Injuries from contaminated needles and other sharps have been associated with an increased risk of disease from more than 20 infectious agents. The primary agents of concern in current occupational settings are the Human Immunodeficiency virus (HIV), Hepatitis B virus (HBV), and Hepatitis C virus (HCV).

To reduce the health risk to workers whose duties involve exposure to blood or other potentially infectious materials, OSHA issued the Bloodborne Pathogens Standard (29 CFR 1910.1030) on December 6, 1991 (56 FR 64004). The provisions of the standard were based on the agency's determination that a combination of engineering and work practice controls, personal protective equipment, training, medical surveillance, Hepatitis B vaccinations, signs and labels, and other requirements would minimize the risk of disease transmission.

This course explains the requirements for complying with this standard and provides practical information on the various diseases and protection strategies associated with bloodborne pathogens. The course incorporates the 2001 OSHA revisions to the standard that were made in compliance with the Needlestick Safety and Prevention Act. This training course has 19 learning modules with a 10-question exam.

Course Duration: 1 hour(s)

Audience: This training program is mandatory for all employees initially and on an annual basis thereafter.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.1030



NFPA 1500 COMBUSTIBLE & FLAMMABLE LIQUIDS

This course covers the two primary hazards associated with flammable and combustible liquids: explosion and fire. In order to prevent these hazards, this course and the standard upon which it is based (29 CFR 1910.106); address the primary concerns of design and construction, ventilation, ignition sources, and storage. This training course has eight learning modules with a 10-question exam.

Course Duration: 1 hour(s)

Audience: This training program is mandatory awareness level training for all employees.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.106

NFPA 1500 COMPRESSED GAS SAFETY

Many hazards are involved in the handling, storage, and use of compressed gas. Compressed gases store tremendous amounts of potential energy, which can be hazardous to employees unless they understand the general requirements and safety measures for working with these substances. This course discusses the aspects of compressed gas safety by exploring the characteristics of specific gases, the proper equipment needed for safety precautions, and the general requirements of working with compressed gases that have been determined by the Department of Transportation. This course provides the information employees need to handle and transport these potentially volatile storage containers. This training course has nine learning modules with a 10-question exam.

Course Duration: 1 hour(s)

Audience: This training program is non-mandatory, however most companies who utilize compressed gas should implement this training on an annual basis to minimize injury and legal liability.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.101

NFPA 1500 CONFINED SPACE ENTRY

During the course of employment, you may be exposed to the hazards associated with confined space operations. This course provides awareness level training for activities related to confined space entry. Lessons cover the purpose of a confined space entry permit and the information typically contained within. Also covered are the characteristics and sources of common toxic gases, such as hydrogen sulfide and carbon monoxide. Additional training at your job site is recommended in order to gain a better understanding of the confined spaces at your place of employment. This training course has 14 learning modules with a 10-question exam.

Course Duration: 1 hour(s)

Audience: This training program is deemed mandatory for all confined space entrants and attendants.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.146

NFPA 1500 CPR ACADEMIC

Each year approximately 250,000 people die of sudden cardiac arrest in the United States. Cardiopulmonary resuscitation (CPR) is a combination of rescue breathing and chest compressions delivered to victims thought to be in cardiac arrest. During cardiac arrest, the heart stops pumping blood, blood pressure falls to zero, and the pulse stops. Within 10 seconds, a victim may lose consciousness and become unresponsive. CPR helps circulate blood that contains oxygen to the brain and other vital organs and can help "buy time" until help arrives. This course highlights how to recognize the signs of cardiac arrest, how and when to perform CPR, and how to use an AED to help a person in cardiac arrest.

This course is meant to supplement CPR training conducted by the American Heart Association. It is not to be used as the primary guide for patient care. Please contact the American Heart Association for the hands-on class information.

Course Duration: 1 hour(s)

Audience: This training program is May or may not be mandatory, although if implemented, employees should be retrained on an annual basis.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.151

NFPA 1500 DRIVING SAFETY

Every year over 42,000 preventable deaths are attributed to vehicle incidents. Traffic accidents are a leading cause of incidental deaths among US workers. This training course presents information to aid employees in operating vehicles safely. This training program has 13 learning modules with a 10-question exam.

Course Duration: 1 hour(s)

Audience: This training program is non-mandatory.

Prerequisite: No prior knowledge is required.

Regulatory Reference: Non-Mandatory



NFPA 1500 HAZARD COMMUNICATION

Exposure to hazardous chemicals can present numerous dangers to workers. More than 30 million workers are exposed to one or more chemical hazards across various industrial sectors. And with hundreds of new hazardous chemicals being introduced annually in addition to the estimated 650,000 already existing hazardous chemical products, the risk is increasing every year. This poses a serious problem for many workers and their employers.

OSHA's Hazard Communication Standard (HCS), sometimes referred to as the Right-to-Know regulation, and is designed to ensure that information about these dangers is shared with those who need to know. Chemical manufacturers, distributors, and importers must convey hazard information to downstream employers by means of labels on containers and safety data sheets (SDSs). In addition, all covered employers must have a hazard communication program to get this information to their employees through labels on containers, SDSs, and training. This course covers the HCS with an emphasis on what it is and how to comply, and incorporates recent changes made to the standard in accordance with the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. HCS provides guidelines to help prevent chemical hazard incidents and the adverse health effects that may result. This training course has nine learning modules with a 10-question exam.

Course Duration: 1 hour(s)

Audience: Under the Hazard Communication Standard, all facilities must establish a training and information program for every employee exposed to hazardous chemicals in the work place. This training must be provided at the time of initial assignment and whenever a new hazard is introduced into the work place.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.1200

NFPA 1500 HAZMAT SPILL PREVENTION & CONTROL

Hazardous materials can be used effectively and safely, if care is taken in their handling, storage, and disposal. However, a hazardous materials spill can be a threat to the safety of the company, the environment, and employees. In order to protect themselves, employees should understand and be aware of hazardous materials handling, storage, and disposal requirements. This course discusses several aspects of hazardous materials by examining the responsibilities of a hazardous materials program; storage requirements; and strategies for cleaning up spills. This training course has seven learning modules with a 10-question exam.

Course Duration: 1 hour(s)

Audience: This training course is intended to provide training in basic techniques of HAZMAT spill prevention and control.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.120(e)

NFPA 1500 HAZMAT TRANSPORTATION

Preventing spills, fires, and explosions of hazardous materials during transportation is a major goal of the U.S. Department of Transportation. In order to protect the environment, the public, and employees from such incidents, they have developed and adopted rigorous standards for packaging and identifying hazardous materials that are shipped by any mode of transportation.

This course will discuss general Department of Transportation classifications, and requirements for packaging and shipping hazardous materials. Hazardous materials must be properly prepared for shipment. This training course has 14 learning modules with a 10-question exam.

Course Duration: 1 hour(s)

Audience: This training program is suggested for all employees who manage HAZMAT storage facilities or who may encounter HAZMAT spill emergencies.

Prerequisite: No prior knowledge is required.

Regulatory Reference: 49 CFR Parts 171-180

NFPA 1500 LABORATORY SAFETY

The Occupational Safety and Health Administration (OSHA), recognizing the unique characteristics of the laboratory workplace, tailored a standard for occupational exposure to hazardous chemicals in laboratories to include approximately 934,000 employees in 34,214 industrial, clinical, and academic laboratories. This course describes the requirements of the Occupational Exposure to Hazardous Chemicals in Laboratories, including the written chemical hygiene plan to ensure employees are protected from all potentially hazardous chemicals in use in their work area(s). This training course has 14 learning modules with a ten-question exam.

Course Duration: 1 hour(s)

Audience: This training program is mandatory for all employees prior to work assignment and annually thereafter.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.1450

NFPA 1500 MATERIALS HANDLING, STORAGE, USE & DISPOSAL

More employees are injured in industry occupations while moving materials than while performing any other single function. This course discusses strategies employees can practice to remain safe while performing work functions that require the handling, storage, use, or disposal of materials. In addition to basic warehouse safety, this course also explores chemical safety concepts, guidelines for forklift and man lift operations, requirements for vehicle and machinery use, and precautions for working with hazardous materials. More employees are injured moving materials than while performing any other single function. This training course has 11 learning modules and a 10-question exam.

Course Duration: 1 hour(s)

Audience: This training program is non-mandatory; however, many materials handling employers may receive an insurance premium discount from their Worker's Compensation carrier if they implement this safety-training program.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.176, Subpart N

NFPA 1500 PERSONAL PROTECTIVE EQUIPMENT

The purpose of PPE is to shield or isolate individuals from the chemical, physical, and biological hazards that may be encountered. This course describes the different types of PPE, as well as how to select and maintain PPE. This training course has 11 learning modules with a 10-question exam.

Course Duration: 1 hour(s)

Audience: This training program is mandatory for all employees who may use personal protective equipment on the job.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.132 - 138; 23 CFR 634

NFPA 1500 RESPIRATORY PROTECTION

The objective of this training course is to provide basic information on the selection, use, and maintenance of respiratory protective devices so that they may be used in a safe and effective manner.

This training course has nine learning modules with a ten-question exam.

Course Duration: 1 hour(s)

Audience: This training program is mandatory for all employees who may use respiratory protection equipment on the job.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.134

NFPA 1500 WELDING SAFETY

Welding, cutting and brazing are hazardous activities that pose a unique combination of both safety and health risks to more than 500,000 workers in a wide variety of industries. The risk from fatal injuries alone is more than four deaths per thousand workers over a working lifetime. Even with advances in control technology, welders continue to be exposed to hazardous welding fumes and gases.

This course introduces basic techniques for keeping workers safe. This training course has 13 learning modules with a 10-question exam.

Course Duration: 1 hour(s)

Audience: This training program is mandatory for all employees who perform welding activities. The training should be done initially and annually thereafter.

Prerequisite: No prior knowledge is required.

Regulatory Reference: OSHA 29 CFR 1910.251

NFPA 1584 FIREFIGHTER REHABILITATION (MOD #1)

Firefighting is a labor-intensive occupation. The heavy physical and mental demands placed on firefighters in an emergency can push the human body to its limits—and sometimes beyond it. Over half of all fatalities in the fire service are caused by stress, overexertion, and related medical issues, and these also contribute to a large proportion of injuries and illnesses among fire personnel. To protect themselves from overworking and allow them to continue operations in a safe and effective manner, firefighters need to make sure they rest, rehydrate, and reenergize at regular intervals during operations and training exercises.

This course reviews the requirements and guidelines for rehab operations. The course discusses topics contained in the NFPA 1584 Standard, and is divided into two modules. The first module discusses aspects related to the regulations and standards pertinent to rehab and their requirements, such as rehab staff roles and responsibilities, pre-incident preparation, and setting up rehab operations at the scene. The second module discusses the practical aspects of rehab related to evaluation and treatment for personnel entering rehab.

Course Duration: 2 hour(s)

Audience: Fire department members

Prerequisite: None

Regulatory Reference: NFPA 1584

NFPA 1584 FIREFIGHTER REHABILITATION (MOD #2)

Heat is the number one weather-related killer in the United States, according to the National Weather Service. On average, each year more people die of heat-related conditions than floods, lightning, tornadoes, and hurricanes combined. While heat is a danger to the general population, the risks are compounded for firefighters, who often must wear heavy turnout gear and operate in environments where flames add to environmental heat, raising core body temperatures to dangerous levels. In addition to heat, firefighters can face increased risks from cold weather, fatigue, and dehydration. In the most recent year of data compiled by the US Fire Administration, the greatest cause of death among firefighters was overexertion, stress, and related medical issues. To protect themselves from these risks, firefighters need to make sure they rest, re-hydrate, and re-energize at regular intervals during operations and training exercises.

This course reviews the requirements and guidelines for rehab operations. The course discusses topics contained in the NFPA 1584 Standard, and is divided into two modules. The first module discusses aspects related to the regulations and standards pertinent to rehab and their requirements, such as rehab staff roles and responsibilities, pre-incident preparation, and setting up rehab operations at the scene. The second module discusses the practical aspects of rehab related to evaluation and treatment for personnel entering rehab.

Course Duration: 2 hour(s)

Audience: Fire department members

Prerequisite: None

Regulatory Reference: NFPA 1584

RT-130: ANNUAL WILDLAND FIRE SAFETY REFRESHER (MOD #1)

This Wildland Fire Safety Refresher course provides firefighters the opportunity to review both the fundamentals of wildland firefighting and critical hazards and safety strategies in wildland operations. Wildland fires pose a risk both to communities and to the firefighters who work to protect them. Increasing urban sprawl has only heightened that risk, bringing urban and wildland areas into ever-closer proximity. As a result, fires in this wildland/urban interface have become more common, costing more than \$20 billion since 1970.

This module provides an overview of recent issues and incidents in wildland firefighting and reviews the fundamentals of safety in wildland firefighting operations.

Course Duration: 2 hour(s)

Audience: Wildland Firefighters

Prerequisite: None

Regulatory Reference: NWCG/NIFC

RT-130: ANNUAL WILDLAND FIRE SAFETY REFRESHER (MOD #2)

This Wildland Fire Safety Refresher course provides firefighters the opportunity to review both the fundamentals of wildland fire firefighting and critical hazards and safety strategies in wildland operations. The number of fireline fatalities that occur in wildland fires is a tragic reminder of the dangers that can arise from unanticipated changes in fire behavior. Sudden changes in the rate of spread can quickly turn a situation that appeared to be relatively under control into one in which shelter deployment and escape are necessary. This module provides an overview of wildland fire behavior and strategies for predicting changes in behavior that could lead to hazardous conditions. Included in the modules are discussions of topics recommended for the US National Interagency Fire Center (NIFC) Annual Refresher.

Course Duration: 2 hour(s)

Audience: Wildland firefighters

Prerequisite: None

Regulatory Reference: NWCG/NIFC



RT-130: ANNUAL WILDLAND FIRE SAFETY REFRESHER (MOD #3)

This Wildland Fire Safety Refresher course provides firefighters the opportunity to review both the fundamentals of wildland fire firefighting and critical hazards and safety strategies in wildland operations. Situational awareness is a key survival strategy in wildland firefighting. Knowing what is around you and making quick decisions can make the difference between life and death. The most significant hazard, entrapment, can be avoided by staying alert and monitoring for changes that could portend extreme fire behavior. This module provides an overview of situational awareness and injury prevention in wildland fire operations.

Included in the module are discussions of topics recommended for the US National Interagency Fire Center (NIFC) Annual Refresher.

Course Duration: 2 hour(s)

Audience: Wildland firefighters

Prerequisite: None

Regulatory Reference: NWCG/NIFC

RT-130: ANNUAL WILDLAND FIRE SAFETY REFRESHER (MOD #4)

This Wildland Fire Safety Refresher course provides firefighters the opportunity to review both the fundamentals of wildland fire firefighting and critical hazards and safety strategies in wildland operations. During wildland fire operations, firefighters encounter numerous hazards. Between 2008 and 2013 over 100 firefighters have died while participating in wildland fire suppression activities. The dangers are real and sometimes the difference between injury and non-injury, between life and death, is one quick decision in the heat of the moment. Whether you will make the right decision in that moment will depend in great measure on your level of training and awareness.

This module provides an overview of safety strategies particular to wildland fire operations. Included in the module are discussions of topics recommended for the US National Interagency Fire Center (NIFC) Annual Refresher.

Course Duration: 2 hour(s)

Audience: Wildland firefighters

Prerequisite: None

Regulatory Reference: NWCG/NIFC



S-190 INTRODUCTION TO WILDLAND FIRE BEHAVIOR (MOD #1)

This module is the first of four in the Introduction to Wildland Fire Behavior (S-190) course. This module covers important wildland fire terminology that every wildland firefighter should be familiar with, the terms that describe how a fire is spread, the elements of the fire triangle, heat transfer methods, and how to break the fire triangle.

NOTE: This training program consists of four modules. To maximize retention of the course material, all four modules must be completed within 365 days of starting the course to receive a certificate of completion.

Course Duration: 2 hour(s)

Audience: Wildland firefighters

Prerequisite: No prior knowledge required

Regulatory Reference: None

S-190 INTRODUCTION TO WILDLAND FIRE BEHAVIOR (MOD #2)

This module is the second of four in the Introduction to Wildland Fire Behavior (S-190) course. It describes various potential wildland fire fuels and their relation to the rate of spread (ROS) and how topography can affect fires. As your experience on the fireline grows, you'll realize that it doesn't take much for a wildland fire to grow out of control, especially if factors influencing the fire go undetected. Like links in a chain, individual factors influencing fire behavior acquire strength when "working" together. As you'll discover, topography, fuel, and weather are the main culprits to watch.

Your grasp of environmental factors will help you manage the fire and reduce potential property loss and--more importantly--maintain the safety of you and the crew.

NOTE: This training program consists of four modules. To maximize retention of the course material, all four modules must be completed within 365 days of starting the course to receive a certificate of completion.

Course Duration: 2 hour(s)

Audience: Wildland firefighters

Prerequisite: No prior knowledge required

Regulatory Reference: None



S-190 INTRODUCTION TO WILDLAND FIRE BEHAVIOR (MOD #3)

This module is the third of four in the Introduction to Wildland Fire Behavior (S-190) course. It covers the many ways that weather can impact wildland fires and affect wildland firefighting operations. Having an understanding of weather and the various elements associated with different weather types and patterns will help you to identify and assess problems and be better equipped to respond to extreme fire behavior. Essentially, understanding the local weather forecast allows you to predict changes in the fire before they happen.

NOTE: This training program consists of four modules. To maximize retention of the course material, all four modules must be completed within 365 days of starting the course to receive a certificate of completion.

Course Duration: 2 hour(s)

Audience: Wildland Firefighters

Prerequisite: No prior knowledge required

Regulatory Reference: None

S-190 INTRODUCTION TO WILDLAND FIRE BEHAVIOR (MOD #4)

This final module in the Introduction to Wildland Fire Behavior (S-190) course discusses the differences between problem and extreme fire behavior and emphasizes the must-follow rules described in the Incident Response Pocket Guide (IRPG).

If you've gone through the modules of this course in order, you'll recognize some concepts already discussed, but the fundamentals of wildland firefighting are lessons reflected on over and over throughout the course of a firefighter's career. Even if you're a seasoned veteran of wildland firefighting, you'll find information in this module you should review and consider carefully.

NOTE: This training program consists of four modules. To maximize retention of the course material, all four modules must be completed within 365 days of starting the course to receive a certificate of completion.

Course Duration: 2 hour(s)

Audience: Wildland Firefighters

Prerequisite: No prior knowledge is required

Regulatory Reference: None

SCHOOL FIRE AND LIFE SAFETY INSPECTION

Each day children and adults gather in schools for learning, sports events, and other community events. The prevention of fire and rapid evacuation of those children and adults is an important and necessary concern for fire inspectors. This course discusses the inspector's role in conducting a fire and life safety inspection at a school.

Course Duration: 1 hour(s)

Audience: Firefighters

Prerequisite: None

Regulatory Reference: None

Here is a list of the current Fire clients that TargetSolutions currently has within NV.

Boulder City Fire Department (NV)
Carson City Fire Department (NV)
Central Lyon County Fire District (NV)
City of Elko Fire Department
Clark County Fire Department (NV)
Ely Fire Department (NV)
Nevada Urban Search & Rescue Task Force 1 (NV)
North Lake Tahoe Fire Protection District (NV)
North Las Vegas Fire Department (NV)
North Lyon County Fire Protection District (NV)
Reno Fire Department (NV)
Sparks Fire Department (NV)
Tahoe Douglas Fire District (NV)
Las Vegas Fire & Rescue (NV)
Henderson Fire Department (NV)

END OF ITEM 7

2014-17 LOSS CONTROL EXCELLENCE AWARDS

Battle Mountain General Hospital

2007	LCEP	\$1500.00
2008	-----	-----
2009	-----	-----
2010	-----	-----
2011	LCEP	\$1500.00
2012	-----	-----
2013	-----	-----
2014	-----	-----
2015	-----	-----
2016	-----	-----
2017	-----	-----

Boulder City

5/5/00	LCEP	\$750.00
2001	-----	-----
5/21/02	LCEP	\$3000.00
6/4/03	Continuation	\$750.00
2004	-----	-----
2005	-----	-----
5/15/06	Continuation	\$750.00
5/29/07	LCEP	\$3000.00
2008	-----	-----
2009	-----	-----
2010	-----	-----
2011	LCEP	3000.00
2012	-----	-----
2013	-----	-----
2014	-----	-----
2015	-----	-----
2016	-----	-----
2017	-----	-----

City of Carlin

09/29/03	LCEP	\$3000.00
5/04/04	-----	-----
5/10/05	Continuation	\$750.00
2006	-----	-----
2007	Expired	-----
6/05/08	LCEP	\$3000.00
2009	-----	-----

2010	-----	-----
2011	-----	-----
2012	REQUALIFICATION YEAR – did not meet stds	
2013	-----	-----
2014	-----	-----
2015	-----	-----
2016	-----	-----
2017	-----	-----

Churchill County

6/2/97	LCEP	\$750.00
6/26/98	Continuation	\$750.00
6/2/99	Continuation	\$750.00
5/5/00	Continuation	\$750.00
6/08/01	Continuation	\$750.00
6/21/02	LCEP	\$750.00
6/4/2003	Continuation	\$750.00
5/4/2004	LCEP	\$3000.00
2005	-----	-----
2006	-----	-----
2007	-----	-----
6/5/08	LCEP	\$3,000.00
2009	-----	-----
2010	-----	-----
2011	-----	-----
2012	-----	-----
2013	-----	-----
7/14/14	LCEP Re-Cert	\$3,500.00
2015	-----	-----
2016	-----	-----
2017	-----	-----

Douglas County

6/2/97	LCEP	\$750.00
1998	-----	-----
6/2/99	Continuation	\$750.00
2000	-----	-----
6/08/01	Continuation	\$750.00
5/21/02	LCEP	\$3000.00
6/4/03	Continuation	\$750.00
5/4/04	Continuation	\$750.00
5/10/05	Continuation	\$750.00
5/16/06	Continuation	\$750.00
5/29/07	LCEP	3,000.00
2008	-----	-----

2009	-----	-----
2010	-----	-----
7/8/11	LCEP RE-CERT	\$3,500.00
2012	-----	-----
2013	-----	-----
7/14/14	LCEP RE-CERT	\$3,500.00
2015	-----	-----
2016	-----	-----
2017	-----	-----

City of Elko

6/4/03	LCEP/ Gold	\$3,000.00
2004	-----	-----
7/7/05	LCEP	\$3000.00
2006	-----	-----
2007	-----	-----
1/17/08	2007 LCEP Cont.	\$750.00
2009	-----	-----
2/9/10	LCEP	\$3500.00
2011	-----	-----
2012	-----	-----
2013	REQUALIFICATION YEAR	
2014	-----	-----
8/28/15	LCEP	\$3,500.00
2016	-----	-----
2017	-----	-----

Elko County School District

5/29/07	LCEP	\$3000.00
2008	-----	-----
2009	-----	-----
2010	-----	-----
2011	-----	-----
2012	-----	-----
2013	-----	-----
2014	-----	-----
2015	-----	-----
2016	-----	-----
2017	-----	-----

Elko County

10/25/99	LCEP/Gold	\$1500.00
2000	-----	-----
2001	-----	-----

2002	-----	-----
6/4/03	Continuation	\$750.00
10/26/05	LCEP	\$3000.00
2006	-----	-----
2007	-----	-----
2008	-----	-----
2009	-----	-----
2/9/10	LCEP	\$3500.00
2011	-----	-----
2012	-----	-----
2013	REQUALIFICATION YEAR	
2014	-----	-----
8/28/15	LCEP	\$3500.00
2016	-----	-----
2017	-----	-----

Eureka County

10/14/98	LCEP/Silver	\$1000.00
1999	-----	-----
2000	-----	-----
2001	-----	-----
2002	-----	-----
2003	-----	-----
2004	-----	-----
10/26/05	LCEP	\$3000.00
2006	-----	-----
2007	-----	-----
2008	-----	-----
2009	-----	-----
2/9/10	LCEP	\$3500.00
2011	-----	-----
2012	-----	-----
2013	REQUALIFICATION YEAR	
2014	-----	-----
2015	-----	-----
3/11/16	LCEP	\$3500.00
2017	-----	-----

Garnerville Ranchos GID

10/26/05	LCEP	\$1500.00
2006	-----	-----
2007	-----	-----
2008	-----	-----
2009	-----	-----
2/9/10	LCEP	\$1500.00

5/7/10	LCEP	\$750.00
7/5/11	LCEP Continuation	\$750.00
2012	-----	-----
2013	completed requalification early; award presented 7/2014	
7/14/14	LCEP	\$3500.00
2015	-----	-----
2016	-----	-----
2017	-----	-----

Humboldt County

6/2/97	LCEP	\$750.00
11/2/98	Continuation	\$750.00
10/25/99	Continuation	\$750.00
2000	-----	-----
6/08/01	Continuation	\$750.00
6/21/02	LCEP	\$750.00
6/4/03	Continuation	\$750.00
5/4/04	LCEP	\$3000.00
5/10/05	Continuation	\$750.00
5/16/06	Continuation	\$750.00
5/29/07	Continuation	\$750.00
6/5/08	LCEP	\$3,000.00
2009	-----	-----
2010	-----	-----

Humboldt County (continued)

2011	-----	-----
2012	REQUALIFICATION YEAR – didn't complete	
2013	ELIGIBLE TO REQUALIFY	
2014	-----	-----
8/28/15	LCEP	\$3500.00
2016	-----	-----
2017	-----	-----

Incline Village GID

6/2/97	LCEP	\$750.00
6/26/98	Continuation	\$750.00
6/2/99	Continuation	\$750.00
5/5/00	Continuation	\$750.00
6/08/01	Continuation	\$750.00
7/10/02	LCEP	\$3,000.00
7/2/03	Continuation	\$750.00
5/4/04	Continuation	\$750.00
5/10/05	LCEP	\$3,000.00
5/16/06	Continuation	\$750.00

5/29/07	Continuation	\$750.00
6/5/08	LCEP	\$3,000
6/5/09	Continuation	\$750.00
5/7/10	Continuation	\$750.00
7/8/11	Continuation	\$750.00
2012	-----	-----
2013	-----	-----
7/14/14	LCEP	\$3500.00
2015	-----	-----
2016	-----	-----
2017	-----	-----

Lyon County

6/2/97	LCEP	\$750.00
10/14/98	Continuation	\$750.00
6/2/99	Continuation	\$750.00
5/5/00	Continuation	\$750.00
6/08/01	Continuation	\$750.00
6/21/02	LCEP	\$750.00
5/14/03	LCEP	\$3000.00
2004	-----	-----
2005	-----	-----
2006	-----	-----
6/08/07	LCEP	\$3000.00
2008	-----	-----
2009	-----	-----
2010	-----	-----
7/8/11	LCEP	\$3500.00
2012	-----	-----

Lyon County (CONT'D.)

2013	-----	-----
2014	-----	-----
2015	-----	-----
2016	-----	-----
2017	-----	-----

City of Mesquite

10/25/99	LCEP/Gold	\$1500.00
2000	-----	-----
6/8/01	Continuation	\$750.00

2002	-----	-----
2003	-----	-----
5/4/04	Continuation	\$750.00
5/10/05	LCEP	\$3000.00
10/26/05	Continuation	\$750.00
2006	-----	-----
2007	-----	-----
6/5/08	LCEP	\$3000.00
2009	-----	-----
2010	-----	-----
2011	-----	-----
2012	-----	-----
2013	-----	-----
7/14/14	LCEP	\$3500.00
2015	-----	-----
2016	-----	-----
2017	-----	-----

Town of Pahrump

12/03/02	LCEP	\$3000.00
2003	-----	-----
2004	-----	-----
2005	-----	-----
2006	Expired	-----
5/29/07	LCEP	\$3000.00
2008	-----	-----
2009	-----	-----
2010	-----	-----
2011	-----	-----
2012	-----	-----
2013	-----	-----
2014	-----	-----
2015	-----	-----
2016	-----	-----
2017	-----	-----

Nevada Rural Housing Authority

5/10/05	LCEP	\$1125.00
5/16/06	Continuation	\$750.00
5/29/07	Continuation	\$750.00
6/5/08	LCEP	\$3000.00
6/05/09	Continuation	\$750.00
2010	-----	-----
2011	-----	-----

2012	-----	-----
2013	REQUALIFICATION YEAR	

Nevada Rural Housing Authority Cont'd

2014	-----	-----
8/28/15	LCEP	\$3500.00
2016	-----	-----
2017	-----	-----

Pershing County

11/21/00	LCEP	\$3000.00
2001	-----	-----
6/21/02	Continuation	\$750.00
2003	-----	-----
2004	-----	-----
10/26/05	LCEP	\$3000.00
2006	-----	-----
5/29/07	Continuation	\$750.00
6/5/08	Continuation	\$750.00
2009	-----	-----
2/9/10	LCEP	\$3500.00
2011	-----	-----
2012	-----	-----
2013	QUALIFIED 1 YR EARLY; AWARD PRESENTED 7/2014 (Qualified 4/10/14 and never received award) -zh	
2014	-----	-----
2015	-----	-----
3/11/2016	LCEP	\$3500.00
2017	-----	-----

Pershing County School District

10/26/05	LCEP	\$1500.00
2006	-----	-----
2007	-----	-----
2008	-----	-----
2009	-----	-----
2/9/10	LCEP	\$3500.00
2011	-----	-----
2012	-----	-----
2013	QUALIFIED 1 YR EARLY; AWARD PRESENTED 7/2014	
7/14/14	LCEP	\$3500.00
2015	-----	-----

2016	-----	-----
2017	-----	-----

Storey County

6/2/97	LCEP	\$750.00
1998	-----	-----
1999	-----	-----
5/5/00	Continuation	\$750.00
2001	-----	-----
2002	-----	-----
2003	-----	-----
2004	-----	-----
2005	-----	-----
2006	-----	-----
2006	-----	-----
2007	-----	-----
6/5/08	LCEP	\$3000.00
2009	-----	-----
2010	-----	-----
2011	-----	-----
2012	REQUALIFICATION YEAR – DIDN'T COMPLETE	
2013	ELIGIBLE TO REQUALIFY	
2014	-----	-----
8/28/15	LCEP	\$3500.00
2016	-----	-----
2017	-----	-----

City of Winnemucca

06/20/03	LCEP	\$750.00
2004	-----	-----
5/10/05	LCEP	\$3000.00
2006	-----	-----
2007	-----	-----
6/5/08	LCEP	\$3000.00
2009	-----	-----
2010	-----	-----
2011	-----	-----
2012	-----	-----
2013	-----	-----
7/14/14	LCEP	\$3500.00
2015	-----	-----
2016	-----	-----

2017 ----- -----

City of Yerington

5/21/02	LCEP	\$3000.00
06/04/03	LCEP	\$750.00
5/04/04	Continuation	\$750.00
5/10/05	LCEP	\$3000.00
5/16/06	Continuation	\$750.00
5/29/07	Continuation	\$750.00
6/05/08	LCEP	\$3000.00
6/05/09	Continuation	\$750.00
5/7/10	Continuation	\$750.00
2011		
9/7/12	Continuation (2011)	\$750.00
2013	-----	-----
2014	-----	-----
2015	-----	-----
2016	-----	-----
2017	-----	-----

White Pine County School District

3/11/16	LCEP	\$3500.00
2017	-----	-----
2018	-----	-----
2019	-----	-----
2020	-----	-----

END OF ITEM 8

MSDSONLINE INC. MASTER SUBSCRIPTION AGREEMENT

BY CHECKING THE "I ACCEPT" BOX DISPLAYED AS PART OF THE ONLINE ORDERING PROCESS OR INITIAL LOGIN, YOU AGREE TO THE FOLLOWING TERMS AND CONDITIONS ("THE AGREEMENT") GOVERNING YOUR USE OF THE SELECTED MSDSONLINE INC. ("MSDSONLINE", WE OR US) ONLINE MSDS MANAGEMENT SERVICE, ONLINE TRAINING CLASSES, ONLINE SAFETY TOOLKIT, ONLINE ENVIRO TOOLKIT INCLUDING ANY OFFLINE COMPONENTS (COLLECTIVELY "THE SERVICE") AND VARIOUS PROFESSIONAL SERVICES (COLLECTIVELY "THE COMPLIANCE SERVICES"). IF YOU ARE ENTERING INTO THIS AGREEMENT ON BEHALF OF A COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT THAT YOU HAVE THE AUTHORITY TO BIND SUCH ENTITY TO THESE TERMS AND CONDITIONS, IN WHICH CASE THE TERMS "YOU" OR "YOUR" SHALL REFER TO SUCH ENTITY. IF YOU DO NOT HAVE SUCH AUTHORITY, OR IF YOU DO NOT AGREE WITH THESE TERMS AND CONDITIONS, YOU MUST NOT CHECK THE "I ACCEPT" BOX AND MAY NOT USE THE SERVICE. IN THIS AGREEMENT, MSDSONLINE AND YOU, THE CUSTOMER, ARE EACH REFERRED TO AS A "PARTY" AND ARE COLLECTIVELY REFERRED TO AS THE "PARTIES."

1. SCOPE

The terms and conditions of this Agreement apply to and govern: (i) the Service and the Compliance Services specified on an MSDSonline "Customer Order" that references the Agreement and that has been executed by MSDSonline and by you, the Customer; and (ii) the Service and the Compliance Services that you purchase or license from MSDSonline by registering, subscribing, or completing another applicable process (collectively, "Registration") on the MSDSonline Web site, www.msdsonline.com (the "Site"). The Agreement, together with the applicable Customer Order or the applicable Registration, is a binding contract between MSDSonline and you, the Customer. By signing the applicable Customer Order or by completing the applicable Registration, you acknowledge that you have read and understand the Agreement and you agree to be bound by its terms. All access to and use of the Site is subject to the [Terms of Use](#) and the [Privacy Policy](#) posted on the Site, which you should also read carefully.

2. LICENSE GRANT AND RESTRICTIONS

2.1 License Grant. MSDSonline hereby grants Customer a limited, non-exclusive license to use the Service indicated in the applicable Customer Order or Registration, subject to the restrictions and limitations specified in such Customer Order or Registration and the terms of the Agreement, solely for Customer's legitimate internal business purposes during the Term (as defined in Section 7.1).

2.2 Permitted Use. Customer may permit no more than the maximum number of users, viewers, accounts, desktops, seats, logins, or IDs specified in the applicable Customer Order or Registration with respect to a given Service to use or access such Service during any given month. Customer may reallocate logins, IDs, accounts, desktops, or seats, as applicable to the specific Service, to different individual users or viewers, as reasonable and appropriate, from time to time. You may not access the Service if you are a direct competitor of MSDSonline, except with MSDSonline's prior written consent. In addition, you may not access the Service for purposes of monitoring its availability, performance or functionality, or for any other benchmarking or competitive purposes. Customer may

use the Service only for their internal business purposes and shall not: (i) send spam or otherwise duplicative or unsolicited messages in violation of applicable laws; (ii) send or store infringing, obscene, threatening, libelous, or otherwise unlawful or tortuous material, including material harmful to children or violates third party rights; (iii) send or store material contain software viruses, worms, Trojan horses or other harmful computer code, files, scripts, agents or programs; (iv) interfere with or disrupt the integrity or performance of the Service or the data contained therein; (v) attempt to gain unauthorized access to the Service or its related systems or networks; or (vi) allow its customers or unauthorized users access the Service unless expressly acknowledged and agreed to by MSDSonline in the Customer Order Form. Customer acknowledges that the Service is designed to function in the hardware and software operating environments specified in the applicable documentation. MSDSonline shall not be responsible or liable for the use, operation, or functionality of the Service, and the limited warranty set forth in Section 8.2 hereof shall be null and void with respect to such Service, if operated in a hardware or software operating environment other than those specified in the applicable documentation. MSDSonline agrees it will not directly solicit, or attempt to solicit business or patronage of any public entity in Nevada which is a member of NPAIP the purpose of provision of additional or substantially similar services as referenced herein without first contacting Customer.

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2.3 Access. With respect to any Service to be installed at Customer's location, subject to Section 2.2, and in accordance with the applicable documentation and specifications, Customer may install ("Customer Hosted") any such Service on a networked server for purposes of: (i) installing it onto individual workstations on such network; or (ii) using it in a multi-user configuration over such network. Nevertheless, no such Service shall be installed on any computer that is accessible via the Internet, or via other open or unsecured networks, to parties other than Customer and its authorized employees, and subcontractors. Customer may not provide access to the Service to its customers or unauthorized users unless specifically acknowledged and agreed to by MSDSonline in the MSDSonline Customer Order Form. Customer may make a reasonable number of copies of such Service or documentation solely for backup or archival purposes. Customer shall maintain the confidentiality of any logons or IDs assigned to it by MSDSonline (and any associated passwords) for use of the Service and Customer shall be responsible and liable for all transactions, activities, and other consequences resulting from the use or disclosure of such logons, IDs, and passwords.

2.4 Service Maintenance & Upgrades. During the Term, MSDSonline shall make available to Customer at no additional cost such new releases, upgrades, updates, patches, and bug fixes with respect to the Service as may, from time to time, be developed and made generally available by MSDSonline at no cost to other licensees of such Service under similar circumstances. All such new releases, upgrades, updates, patches, and fixes shall be deemed to constitute part of the applicable Service and shall be subject to the terms of this Agreement.

2.5 Prohibited Conduct. Except as expressly permitted by this Agreement, Customer shall not, directly or indirectly, without the express, prior written consent of MSDSonline: (i) use or permit the use of, reproduce or otherwise duplicate, disclose, distribute, modify, encumber, time-share, license, sublicense, rent, lease, or transfer any part of the Service, any portion thereof, or any of Customer's rights thereto (as granted by this Agreement); (ii) merge any Service or any portion thereof with any other program or materials, without prior written consent of MSDSonline; (iii) reverse engineer, decompile, disassemble, extract, or otherwise derive or attempt to derive the source code of any Service or any other compiled software provided or made available by MSDSonline hereunder; (iv) adapt, translate, localize, port, or otherwise modify any Service or any other compiled software provided or made available by MSDSonline hereunder; (v) remove, obliterate, or cancel from view any copyright, trademark, or other proprietary or confidentiality notice or legend appearing on or in the Service or any other materials provided or made available by MSDSonline hereunder; (vi) allow access to the Service to its customers or unauthorized users unless specifically acknowledged and agreed to by MSDSonline in the

and (vi) knowingly permit any other person or entity to engage in any of the foregoing conduct.

3. COMPLIANCE SERVICES

3.1 Description. MSDSonline will provide or cause to be provided to Customer the specific Compliance Services indicated in the applicable Customer Order or Registration, in accordance with the specific instructions and descriptions set forth in such Customer Order or Registration, which may include (but may not necessarily be limited to): (i) MSDSonline building an electronic library of Material Safety Data Sheet ("MSDS") documents by processing copies of MSDSs supplied by Customer; (ii) "MSDS Requests" in which MSDSonline requests copies of MSDSs from Customer's suppliers or manufacturers for inclusion in Customer's electronic library; (iii) "Binder Valet," where MSDSonline obtains MSDSs for Customer from a pre-approved Customer inventory list; (iv) "Fax Back Services" where Customer may request MSDS documents and receive them via fax back service 24x7; and (v) MSDSonline on-going updating of Customer's existing electronic library of MSDSs.

3.2 Acceptance. The Compliance Services shall be deemed to have been accepted by Customer upon their completion by MSDSonline unless Customer provides MSDSonline with written notice, in accordance with Section 8.1, within thirty (30) days after such completion. In cases where the Services include, or Customer has separately contracted for, MSDS Requests or Binder Valet (i.e., respectively, MSDSonline contacting suppliers on Customer's behalf, or MSDSonline searching its database, for MSDSs based on Customer's product inventory or other list), Customer is responsible for ensuring, and Customer's acceptance shall be deemed to acknowledge and confirm, that MSDSonline has made the appropriate selection, inclusion, or provision of MSDSs.

3.3 Deliverables. Customer is solely responsible for installing and configuring at its location, or on its workstations or servers, any deliverables or other materials delivered by MSDSonline to Customer in connection with the Compliance Services that require such installation or configuration.

4. FEES AND PAYMENT

4.1 Fees. Customer shall pay MSDSonline the fees specified in the applicable Customer Order or Registration (the "Fees"). MSDSonline shall invoice Customer, or automatically charge the credit card specified by Customer, for such Fees in accordance with the payment schedule indicated in such Customer Order or Registration. Fees are due and payable within thirty (30) days after the date of the applicable invoice or the due date otherwise indicated in the applicable Customer Order or Registration. Customer must report any errors or discrepancies in any MSDSonline invoice within thirty (30) days after the date of such invoice or such invoice will be deemed correct and payable by Customer in accordance herewith. Except as expressly provided herein, all Fees are nonrefundable.

4.2 Taxes. Fees do not include, and Customer shall pay, all applicable sales, use, and other taxes imposed in connection with this Agreement, the Service, or the Compliance Services. Where applicable and upon request, the Customer will supply to MSDSonline the applicable exemption certificate.

4.3 Out of Scope Services. Customer shall pay for any services performed, at Customer's request, beyond the scope of the Compliance Services described in the applicable Customer Order or Registration at MSDSonline's then-prevailing rates.


5. PROPRIETARY RIGHTS

5.1 Ownership. The Service, and other materials (except for the MSDSs) provided to Customer by MSDSonline hereunder (including, but not limited to, the technology (whether in source code, object code, or other form), databases, indexing, search, and retrieval methods and routines, hypertext markup language ("HTML") code, active server pages ("ASP"), intranet pages, and similar materials) constitute the valuable intellectual property and proprietary material of MSDSonline and its licensors and are protected by applicable intellectual property laws of the United States and other countries. Except for the rights expressly granted to Customer in this Agreement, all MSDSonline Technology, the Service, and other materials that are provided, and all work product that is developed, under this Agreement, all modifications, compilations, and derivative works thereof, and all intellectual property and proprietary rights pertaining thereto, are and shall remain the property of MSDSonline and its respective licensors. MSDSonline hereby grants Customer a limited, non-exclusive, non-transferable license and right to use and reproduce such materials during the Term, solely for the internal business purposes of Customer, consistent with the other terms of this Agreement. Customer shall reproduce and include any copyright and other proprietary notices included in the Technology, the Services, or any such other materials on all copies, in whole or in part, made thereof. Notwithstanding anything to the contrary in this Agreement, all MSDSs are created and owned by their respective authors and all rights pertaining thereto shall remain the property of such authors. MSDSonline neither claims nor grants any ownership rights in any MSDS.

5.2 Customer Materials. Customer may upload to or distribute on MSDSonline.com MSDS content that is not subject to any copyright or other proprietary rights protection, content in which MSDSonline has given express authorization for distribution on the World Wide Web or content that Customer specifically earmarks for "private use" during the MSDSonline upload process or Binder Valet process. Customer may not use the batch upload process to upload "private use" documents. The unauthorized submission or distribution of copyrighted or other proprietary content is illegal and could subject the Customer to criminal prosecution as well as liability for damages in a civil suit. Customer shall at its sole expense, defend, indemnify and hold harmless MSDSonline and its employees with respect to any claim and all costs, expenses (including reasonable attorney's fees), fines, penalties, deficiencies, losses, liabilities (including settlements and judgments) from any infringement of copyrights or proprietary rights, or from any other harm arising from such Customer upload of content, **to the extent limited by NRS Chapter 41**. In compliance with the Digital Millennium Copyright Act, Customer and other persons can report infringement claims to CustomerHelp@msdsonline.com. Customer hereby grants MSDSonline a royalty-free, perpetual, irrevocable, non-exclusive, worldwide right and license to use, reproduce, modify, adapt, publish, translate, and distribute, in any form, media, or technology now known or hereafter developed, all MSDS content that Customer posts to MSDSonline's database for public use (or otherwise acquired by MSDSonline for or on behalf of Customer) hereunder and to incorporate such MSDS content in other works, in any form, media, or technology now known or hereafter developed. When making use of such information and materials, MSDSonline shall use commercially reasonable efforts to prevent disclosure of Customer's identity as the party from or for whom MSDSonline obtained such MSDS content or materials, except that MSDSonline will not disclose or make such MSDS content available to MSDSonline's other customers if Customer specifically earmarks the MSDS content for private use or requests in writing when such materials and information are provided to, or otherwise obtained by, MSDSonline.

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6. CONFIDENTIALITY

The Service and the other materials that are provided or disclosed by MSDSonline in connection with this Agreement contain confidential and proprietary information of MSDSonline and its licensors that is not in the public domain, that is of commercial value to MSDSonline and others because of it not being generally known, and which is the subject of efforts reasonable under the circumstances to maintain its secrecy or confidentiality (collectively, "Confidential Information," and including, but not limited to, technical and non-technical data, marketing and promotional information, software programs and code (regardless of form or language), methods, techniques, strategies, processes, customer and supplier lists, trade secrets, distribution methods, and pricing and financial data relating to MSDSonline, the Service, or the Compliance Services). Customer may use Confidential Information only as necessary and appropriate to perform its obligations hereunder and to receive the benefit of the Service or the Compliance Services, in accordance with this Agreement. Customer shall hold all such information in strict confidence and shall at all times use at least a reasonable standard of care to maintain the confidentiality thereof. Customer's obligations with respect to Confidential Information, as set forth in this Section 6, shall continue in force and effect for a period of five (5) years after termination or expiration of this Agreement or, with respect to such portions of such Confidential Information that constitute trade secrets under applicable law, for so long as such trade secret status is maintained. 

7. TERM AND TERMINATION

7.1 Term. The term of this Agreement (the "Term") shall commence, as applicable, on the date that the applicable Customer Order is executed by both Customer and MSDSonline or on the date that the applicable Registration is completed by Customer. The Term shall continue for the period specified in the applicable Customer Order or Registration, and shall thereafter be renewed and extended in accordance with Section 7.2, unless terminated earlier by either Party in accordance with Section 7.3 hereof or another provision of this Agreement.

7.2 Automatic Renewal. UNLESS AND UNTIL TERMINATED BY EITHER PARTY PURSUANT TO SECTION 7.3, OR EITHER PARTY PROVIDES WRITTEN NOTICE OF NON-RENEWAL TO THE OTHER PARTY AT LEAST SIXTY (60) DAYS PRIOR TO THE SCHEDULED EXPIRATION OF THE THEN-CURRENT TERM, THE TERM SHALL AUTOMATICALLY RENEW AND BE EXTENDED UPON ITS EXPIRATION (REGARDLESS OF WHETHER PREVIOUSLY RENEWED OR EXTENDED) FOR ANOTHER TERM OF THE SAME DURATION AS SPECIFIED IN THE APPLICABLE CUSTOMER ORDER OR ONLINE ORDERING PROCESS. THE TERMS APPLICABLE TO ANY SUCH RENEWAL OR EXTENSION SHALL BE THE SAME AS THOSE SET FORTH HEREIN, EXCEPT THAT, UNLESS EXPRESSLY PROVIDED OTHERWISE IN THE APPLICABLE CUSTOMER ORDER OR ONLINE ORDERING PROCESS, THE FEES APPLICABLE TO SUCH RENEWAL OR EXTENSION SHALL BE AT THE RATES THEN MADE GENERALLY AVAILABLE BY MSDSONLINE.

7.3 Termination. Either Party may terminate this Agreement immediately and without penalty by sending written notice to the other Party, describing in reasonable detail the reason for such termination, in the event that the other Party: (i) breaches any material term or condition hereof and, if such breach is curable, fails to cure such breach within thirty (30) days after being provided written notice thereof by the other Party (except with regard to a breach by Customer with regard to its payment obligations hereunder, in which case the applicable cure period shall be only five (5) days). All rights and

licenses granted herein to Customer to access and use the Service shall automatically terminate and be revoked, and Customer shall promptly return or destroy all proprietary information, results of the Compliance Services, and related materials in Customer's possession or control, upon any expiration or termination of this Agreement.

8. WARRANTIES

8.1 Service. MSDSonline warrants that the Service will perform substantially in accordance with the applicable specifications and documentation generally made available by MSDSonline, provided that Customer shall have properly accessed, installed, operated, and used the Service in accordance with this Agreement and such specifications and documentation. MSDSonline does not represent, warrant, or covenant that the Service, or that the operation and use of the Service, will meet Customer's requirements, that use of the Service shall be entirely without interruption or totally error-free, or that all defects (including, but not limited to, minor or cosmetic defects that do not significantly and adversely affect functionality or features) will be corrected. **MSDSonline does warrant that all services, deliverables, and/or work product under this Agreement shall be completed in a workmanlike manner consistent with standards in its trade, profession, or industry; and conform to the specifications set forth in the Customer Order Form.** Customer must provide MSDSonline with written notice reasonably describing any failure of the Service to satisfy the limited warranty set forth above in this Section 8.1, and repair or replacement of the applicable Product shall be Customer's sole and exclusive remedy for any such failure. Nevertheless, if, after receiving such a written notice from Customer, MSDSonline determines that it is unable through the exercise of commercially reasonable efforts to repair or replace the Service in a manner that satisfies such warranty, then upon Customer's return of any material (if applicable) and access to the Service, MSDSonline will refund any fees that Customer has paid for the Service hereunder during the immediately preceding twelve (12) months.

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8.2 Compliance Services. MSDSonline warrants the Compliance Services will be performed in a competent and workmanlike manner, in accordance with standards common and prevalent in the industry. As Customer's sole and exclusive remedy for a claimed breach of this limited warranty: (i) if Customer notifies MSDSonline, in writing and in reasonable detail, of the nature and extent of such failure within thirty (30) days after the completion of the applicable Compliance Services, MSDSonline shall re-perform or cure any portion of such Compliance Services that fail to satisfy the foregoing limited warranty; or (ii) if, after being provided with notice as described in the foregoing clause (i), MSDSonline determines, in its sole discretion, that it is unable to re-perform or cure the Compliance Services in a manner that complies with such warranty through the exercise of commercially reasonable efforts, MSDSonline will refund to Customer the fees paid for such portion of the Compliance Services during the immediately preceding twelve (12) months.

8.3 Power and Authority. Customer represents that it is financially solvent and that it has the requisite legal and corporate power, right, and authority to enter into this Agreement, to grant the rights it purports to grant hereunder, and to perform its duties and fulfill its obligations hereunder.

8.4 Accuracy of Information. Customer represents that all information provided to MSDSonline in connection with this Agreement is, and warrants that all information provided to MSDSonline hereunder shall be, true, complete, and correct in all material respects, to the best of Customer's ability, knowledge, and belief.

9. DISCLAIMERS

9.1 DISCLAIMER OF WARRANTIES. EXCEPT AS EXPRESSLY PROVIDED IN SECTIONS 8.1 AND 8.2: (I) MSDSONLINE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, IN CONNECTION WITH THIS AGREEMENT; (II) THE SERVICE AND THE COMPLIANCE SERVICES ARE PROVIDED BY MSDSONLINE ON AN "AS-IS" BASIS, WITHOUT ANY FURTHER WARRANTIES OF ANY KIND; AND (III) MSDSONLINE DOES NOT REPRESENT, WARRANT, OR COVENANT THAT THE SERVICE, THE COMPLIANCE SERVICES, AND THE OTHER MATERIALS (INCLUDING, BUT NOT LIMITED TO, MSDS DOCUMENTS, REPORTS, ADVICE, AND RECOMMENDATIONS, IN ANY FORM) PROVIDED BY MSDSONLINE OR ITS CONTRACTORS OR AGENTS IN CONNECTION WITH THIS AGREEMENT, ARE OR WILL NECESSARILY ALWAYS BE COMPLETELY ACCURATE, CURRENT, OR COMPLETE, CONTINUOUSLY AVAILABLE, OR APPROPRIATE FOR ANY PARTICULAR USE TO WHICH CUSTOMER OR ANY THIRD PARTY MAY CHOOSE TO PUT THEM. MSDSONLINE EXPRESSLY DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, OTHER THAN THOSE SET FORTH IN SECTIONS 8.1 AND 8.2, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTIES THAT MIGHT ARISE THROUGH USAGE OF TRADE OR CUSTOM, COURSE OF DEALING, AND COURSE OF PERFORMANCE.

9.2 MSDS DISCLAIMER. IN NO EVENT SHALL MSDSONLINE BE LIABLE TO CUSTOMER OR TO ANY THIRD PARTY FOR ANY LOSS, DAMAGE, OR EXPENSE RELATING TO THE APPROPRIATENESS, SELECTION, CONTENT, MAINTENANCE, RETENTION, AVAILABILITY, USE, OR NON-USE OF MSDS DOCUMENTS OR REPORTS, ADVICE, AND RECOMMENDATIONS PROVIDED IN CONNECTION THEREWITH IN ANY FORM. CUSTOMER IS SOLELY RESPONSIBLE FOR CONFIRMING THAT ANY MSDS THAT IT PROVIDES TO MSDSONLINE, OR THAT IT APPROVES, ACCEPTS, SELECTS, USES, OR OTHERWISE OBTAINS FROM OR THROUGH MSDSONLINE, THE SERVICE, OR THE COMPLIANCE SERVICES, IN CONNECTION WITH THIS AGREEMENT, IS APPLICABLE TO AND APPROPRIATE FOR THE SERVICE OR PURPOSE FOR WHICH CUSTOMER MAY NEED AN MSDS. CUSTOMER ACKNOWLEDGES THAT MSDSONLINE DOES NOT AUTHOR, EDIT, OR CHANGE ANY INFORMATION CONTAINED IN ANY MSDS AND THAT MSDSONLINE ASSUMES NO RESPONSIBILITY OR LIABILITY WITH RESPECT TO THE ACCURACY, USEFULNESS, COMPLETENESS, OR CURRENCY OF ANY SUCH INFORMATION. MSDSONLINE SHALL BE ENTITLED, AT ALL TIMES AND WITHOUT INCURRING LIABILITY: (I) TO RELY ON INFORMATION PROVIDED BY CUSTOMER, ON WRITTEN AND ORAL COMMUNICATIONS WITH CUSTOMER'S PERSONNEL, AND ON INFORMATION AND MATERIALS APPROVED OR ACCEPTED BY CUSTOMER, WITH RESPECT TO SPECIFIC SERVICE FOR WHICH AN MSDS IS SOUGHT OR REQUESTED; AND (II) TO MAKE REASONABLE ASSUMPTIONS AND SUBSTITUTIONS IF INFORMATION PROVIDED BY CUSTOMER IS INCOMPLETE, INACCURATE, OR NON-SPECIFIC OR IF AN MSDS FOR A PARTICULAR SUPPLIER'S PRODUCT, PRODUCT ID, OR SKU NUMBER IS NOT AVAILABLE THROUGH THE EXERCISE OF COMMERCIALY REASONABLE EFFORTS.

9.3 FAXBACK DISCLAIMER. THE FAX BACK SERVICE CONSISTS OF CUSTOMER RECEIVING REQUESTED COPIES OF MSDS DOCUMENTS VIA FAX. CUSTOMER ACKNOWLEDGES THAT THE FAXBACK SERVICE IS PROVIDED THROUGH THIRD PARTY CONTRACTORS RETAINED BY MSDSONLINE AND THAT SUCH CONTRACTORS MAY PROVIDE OR OFFER TO PROVIDE ADDITIONAL SERVICES, ADVICE, REPORTS OR RECOMMENDATIONS TO CUSTOMER, INCLUDING BUT NOT LIMITED TO MEDICAL, HEALTH CARE OR EMERGENCY INFORMATION ABOUT OR PERTAINING TO EXPOSURE TO OR TREATMENT FOR EXPOSURE TO CHEMICALS, THAT ARE NOT PART OF THE FAX BACK SERVICE ("OTHER SERVICES OR ADVICE"). IN NO EVENT SHALL MSDSONLINE BE LIABLE TO CUSTOMER OR TO ANY THIRD PARTY FOR ANY LOSS, DAMAGE, OR EXPENSE RELATING TO SUCH OTHER

SERVICES OR ADVICE OR CUSTOMER'S RELIANCE THEREON, AND CUSTOMER AGREES TO HOLD MSDSONLINE HARMLESS FROM SAME.

10. LIMITATIONS OF LIABILITY

10.1 EXCLUSIONS. NEITHER MSDSONLINE, ITS SUBSIDIARIES, CONTRACTORS, SUPPLIERS, CO-BRANDERS, AND OTHER SIMILAR ENTITIES, NOR THE OFFICERS, DIRECTORS, EMPLOYEES, REPRESENTATIVES, AND AGENTS OF ANY OF THE FOREGOING (ALL SUCH PERSONS AND ENTITIES AS LISTED HERETOFORE IN THIS SENTENCE, COLLECTIVELY, THE "MSDSONLINE ASSOCIATES"), SHALL BE LIABLE TO CUSTOMER OR TO ANY THIRD PARTY FOR ANY LOSS, COST, DAMAGE, OR OTHER INJURY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, ARISING OUT OF OR IN CONNECTION WITH: (I) CUSTOMER'S USE OR NON-USE, OR CUSTOMER'S RELIANCE ON OR FAILURE TO RELY ON, THE SERVICE, THE COMPLIANCE SERVICES, OR ANY OTHER MATERIALS (INCLUDING, BUT NOT LIMITED TO, ANY MSDS DOCUMENTS AND ANY REPORTS, ADVICE, AND RECOMMENDATIONS, IN ANY FORM) PROVIDED OR MADE AVAILABLE BY MSDSONLINE OR ITS CONTRACTORS IN CONNECTION WITH THIS AGREEMENT (COLLECTIVELY, THE "MSDSONLINE MATERIALS"); OR (II) ANY DECISIONS MADE OR NOT MADE, OR ACTIONS TAKEN OR NOT TAKEN, BY CUSTOMER OR ANY THIRD PARTY WITH REGARD TO, IN RELIANCE ON, OR AS A RESULT OF, USE OF ANY MSDSONLINE MATERIALS. IN ADDITION, UNDER NO CIRCUMSTANCES SHALL THE MSDSONLINE ASSOCIATES BE LIABLE TO CUSTOMER OR ANY THIRD PARTY FOR ANY INDIRECT, CONSEQUENTIAL, INCIDENTAL, PUNITIVE, SPECIAL, OR SIMILAR DAMAGES OR COSTS (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS OR DATA, LOSS OF GOODWILL, LOSS OF OR DAMAGE TO PROPERTY, LOSS OF USE OR DOWNTIME OF FACILITIES, EQUIPMENT, OR SERVICES, COSTS OF COVER, BUSINESS INTERRUPTION, AND CLAIMS OF THIRD PARTIES) ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT OR ANY MSDSONLINE MATERIALS, EVEN IF MSDSONLINE WAS ADVISED, KNEW OR SHOULD HAVE KNOWN OF THE POSSIBILITY OF SUCH DAMAGES OR COSTS.

10.2 MAXIMUM LIABILITY. IN A JURISDICTION THAT DOES NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CERTAIN DAMAGES, THE LIABILITY OF THE MSDSONLINE ASSOCIATES SHALL BE LIMITED IN ACCORDANCE WITH THIS AGREEMENT TO THE FULLEST EXTENT PERMITTED BY LAW. WITHOUT LIMITING ANY OF THE FOREGOING PROVISIONS OF THIS SECTION 10, AND NOTWITHSTANDING ANY FAILURE OF THE ESSENTIAL PURPOSE OF ANY REMEDY OR OTHER PROVISION OF THIS AGREEMENT, IF ANY OF THE MSDSONLINE ASSOCIATES ARE FOUND LIABLE TO CUSTOMER OR TO ANY THIRD PARTY AS A RESULT OF ANY CLAIMS OR OTHER MATTERS ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT, THE CUMULATIVE, AGGREGATE, AND MAXIMUM LIABILITY OF THE MSDSONLINE ASSOCIATES, COLLECTIVELY, FOR ALL SUCH CLAIMS AND OTHER MATTERS SHALL BE LIMITED TO THREE (3) TIMES THE FEES ACTUALLY PAID BY CUSTOMER TO MSDSONLINE HEREUNDER DURING THE TWELVE (12) MONTH PERIOD IMMEDIATELY PRECEDING THE EVENT MOST PREDOMINANTLY GIVING RISE TO SUCH LIABILITY.

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10.3 INTERNET DELAYS. MSDSONLINE'S SERVICE MAY BE SUBJECT TO LIMITATIONS, DELAYS, AND OTHER PROBLEMS INHERENT IN THE USE OF THE INTERNET AND ELECTRONIC COMMUNICATIONS. MSDSONLINE IS NOT RESPONSIBLE FOR ANY DELAYS, DELIVERY FAILURES, OR OTHER DAMAGES RESULTING FROM SUCH PROBLEMS.

10.4 BASIS OF THE BARGAIN. THE PROVISIONS OF SECTIONS 9, 10, AND 11 OF THIS AGREEMENT ARE ALL FUNDAMENTAL AND SPECIFIC REQUIREMENTS OF THE BASIS OF THE BARGAIN BETWEEN CUSTOMER AND MSDSONLINE, AND MSDSONLINE WOULD NOT BE ABLE TO PROVIDE THE SERVICE AND THE COMPLIANCE SERVICES ON THE OTHER TERMS SET FORTH HEREIN WITHOUT EACH SUCH PROVISION.

11. INDEMNIFICATION

11.1 Infringement. MSDSonline shall defend, indemnify, and hold Customer harmless from and against any claims, actions, and other proceedings ("Claims"), and shall pay all losses, damages, liabilities, settlements, judgments, awards, interest, civil penalties, and expenses (collectively, "Losses," and including reasonable attorneys' fees and court costs), to the extent arising out of any claims by any third party that the Service or the Compliance Services (excluding any material provided or furnished by, or included at the direction of, Customer) infringe upon United States' copyright or any United States' patent issued as of the date of the applicable Customer Order or Registration. In the event of such a claim, MSDSonline may, in its discretion, either procure a license to enable Customer to continue to use the allegedly infringing item or develop or obtain a non-infringing substitute of substantially equivalent functionality and performance. If MSDSonline determines that neither of the foregoing options is commercially reasonable or practicable, then, notwithstanding anything to the contrary elsewhere in this Agreement, MSDSonline may immediately terminate Agreement and refund to Customer, upon Customer's return of the Service, the results of the Compliance Services, and all related materials, any prepaid fees for the then-remaining or unexpired portion of the Term. Notwithstanding the foregoing, MSDSonline shall have no obligation to indemnify, defend, or hold Customer harmless from any Claim to the extent that it is based upon: (i) a modification by Customer (or by anyone under Customer's direction or control) to the Service or the Compliance Services; (ii) a modification made by MSDSonline pursuant to Customer's order or specification or in reliance on materials or information provided by Customer; or (iii) the use by Customer (or by anyone under Customer's direction or control) of the Service other than in accordance with this Agreement. This Section 11.1 sets forth Customer's sole and exclusive remedy, and MSDSonline's entire liability, for any claim that any MSDSonline Materials violate or infringe upon the rights of any third party.

11.2 Third Party Claims. Except as provided in Section 11.1, and to the extent limited by **NRS Chapter 41**, Customer shall defend, indemnify, and hold MSDSonline harmless from and against all Claims, and shall pay all Losses, arising out of or related to third-party claims based upon: (i) Customer's (or that of anyone authorized by Customer) use, non-use, or modification of any MSDSonline Materials; (ii) an MSDS or other content posted by Customer or by MSDSonline at Customer's direction which infringes upon a United States' copyright or any United States' patent or (iii) the violation of any rights of any third party in connection with Customer's (or that of anyone authorized by Customer) use, non-use, or modification of any MSDSonline Materials.

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11.3 Defense. With regard to any Claim subject to indemnification pursuant to this Section 11, the indemnified Party shall grant the indemnifying Party the right to assume full defense and control of such Claim and shall reasonably cooperate with the indemnifying Party regarding such Claim. Nevertheless, the indemnified Party may reasonably participate in such defense, at its sole expense.

12. GENERAL

12.1 Changes to the Service. MSDSonline expressly reserves the exclusive right to, without prior notice, at any time and from time to time, (i) offer new, additional, or substitute products and services; (ii) modify, amend, or discontinue offering all or any particular products or services; and (iii) post a revised version of this Agreement on the Site. Nevertheless, during the Term MSDSonline shall not, except as expressly provided elsewhere in this Agreement: (a) materially and significantly reduce or decrease the functionality and features of the Service; or (b) cease offering any of the Service without offering a substitute of comparable functionality and features. Further, despite the posting at any time of a new version of this Agreement on the Site, any previously executed Customer Orders and previously completed Registrations shall continue to be governed by the version of this Agreement in effect as of the date of such Customer Order or Registration. You agree to accept as the true and accurate copy of this Agreement the version hereof maintained with respect to the date of the applicable Customer Order or Registration by MSDSonline in the course of its normal backup and archival process.

12.2 Entire Agreement. This Agreement, together with the applicable Customer Order or Registration, constitutes the entire agreement and understanding between the Parties regarding the subject matter hereof and supersedes any prior representations, advertisements, statements, proposals, negotiations, discussions, understandings, or agreements regarding the same subject matter. This Agreement may not be modified or amended except by a writing signed by an authorized representative of each of the Parties. In the event and to the extent of any conflict between this Agreement and the applicable Customer Order or Registration, the terms of this Agreement shall prevail and control.

12.3 Governing Law. This Agreement shall be governed by and construed under the substantive laws of the State of Nevada, without regard to choice of law provisions thereof. The application of the United Nations Convention of Contracts for the International Sale of Goods and the provisions of any state law adopting, in whole or in part, or in any modified form, the provisions of the Uniform Computer Information Transactions Act are expressly excluded here from.

12.4 Forum. The exclusive forum and venue for any legal or equitable claim or action brought in connection with this Agreement shall be the state and federal courts situated in First Judicial District Court, Carson City, State of Nevada. The Parties hereby irrevocably submit and consent to the personal and subject matter jurisdiction of such courts and irrevocably waive any objection or claim that venue is improper for any reason in such courts.

12.5 Arbitration. Except for any claims or actions seeking injunctive relief for a breach or alleged breach of Section 5 or Section 6, any dispute, claim, or controversy arising out of, or relating to, this Agreement (a "Dispute") shall be addressed in accordance with this Section 12.5. Each Party agrees to notify the other in writing as soon as reasonably practicable after becoming aware of the basis of a Dispute and to use commercially reasonable efforts to informally resolve or settle the Dispute after providing or receiving such a notice. Nevertheless, if the Parties fail to resolve such a Dispute within thirty (30) days after the date that such notice was received; either Party may submit the Dispute to binding arbitration in accordance with the Commercial Arbitration Rules of the

American Arbitration Association then in effect. Any such arbitration shall be conducted

INCLUDED IN FINAL

in Carson City, Nevada before an arbitrator having at least five (5) years experience in the information technology industry. Judgment on the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. Notwithstanding the foregoing, where the dispute is monetary in nature and the amount involved does not exceed \$30,000.00, either party may waive arbitration and prosecute the claim in a court having jurisdiction consistent with Section 12.4 above.

12.6 Attorneys' Fees. In any arbitration, suit, action, or proceeding relating to this Agreement, to the extent limited by NRS Chapter 41, the prevailing Party will have the right to recover from the other its costs and reasonable fees and expenses of attorneys, accountants, and other professionals incurred in connection therewith. MSDSonline shall also be entitled to reimbursement for any and all of its collection costs in the event of late payment or nonpayment by Customer.

INCLUDED IN FINAL

12.7 Severability. Every provision of this Agreement shall be construed, to the extent possible, so as to be valid and enforceable. If any provision of this Agreement so construed is held by a court of competent jurisdiction to be invalid, illegal, or otherwise unenforceable, such provision shall be deemed severed from this Agreement and all other provisions shall remain in full force and effect.

12.8 Survival. The provisions of this Agreement, and the rights, duties, and obligations of the Parties hereunder, which by their nature may be reasonably inferred to have been intended to survive termination, cancellation, completion, or expiration of this Agreement (including, but not limited to, the rights, duties, and obligations set forth in Sections 0, 2, 3, 4, 5, 6, 8, 9, 10, 11, and 12 hereof) shall survive and continue as valid and enforceable rights, duties, and obligations.

12.9 Waiver. The failure by either Party at any time to enforce any of the provisions of this Agreement or any right or remedy available hereunder or at law or in equity, or to exercise any option herein provided, shall not constitute a waiver of such provision, right, remedy, or option or in any way affect the validity of this Agreement. The waiver of any default by either Party shall not be deemed a continuing waiver, but shall apply solely to the instance to which such waiver is directed.


12.10 Assignment; Change in Control. All rights granted to Customer herein are personal to Customer and Customer may not assign, delegate, or otherwise transfer this Agreement or any of Customer's rights or obligations hereunder, either voluntarily or by operation of law, without the prior written consent of MSDSonline, which consent shall be in MSDSonline's sole discretion. MSDSonline may assign this agreement with the prior written consent of Customer to (i) a parent or subsidiary, (ii) an acquirer of assets, or (iii) a successor by merger. Any actual or proposed change in control of Customer that results in a direct competitor of MSDSonline directly or indirectly owning or controlling 50% or more of Customer shall entitle MSDSonline to terminate this Agreement for cause immediately upon written notice. This Agreement shall be binding upon and inure to the benefit of the Parties and their respective successors and permitted assigns.

INCLUDED IN FINAL

12.11 Force Majeure. Except for payment obligations hereunder, neither Party shall be liable or deemed to be in default for any delay or failure in performance hereunder to the extent resulting, directly or indirectly, from acts of God, terrorism, or civil insurrection, strikes or other organized labor interruption, telecommunications or utility interruptions or failures, fire, explosions, floods, or other natural disasters, any similar

cause or any third party beyond the reasonable control of such Party, and any delay or failure of the other Party to fulfill its obligations hereunder.

12.12 Compliance with Law. Customer is solely responsible for compliance with all federal, state, and local laws, regulations, rules, ordinances, and policies regarding possession and maintenance of MSDSs (including, but not limited to, federal environmental and OSHA requirements, and, to the extent applicable, the specific requirement that access to certain MSDSs be maintained on Customer's premises). Further, Customer is solely responsible for compliance with export and import laws and regulations as they relate to the Service provided hereunder.

12.13 Cooperation. At all times during the Term, Customer shall promptly and fully cooperate with MSDSonline, and shall promptly make competent, appropriately trained, and qualified personnel available to assist and answer questions of MSDSonline, as necessary and appropriate and as reasonably requested by MSDSonline. 

12.14 No Third Party Benefit. The provisions of this Agreement are for the sole benefit of the Parties hereto. Except as expressly provided herein, this Agreement neither confers any rights, benefits, or claims upon any person or entity not a Party hereto nor precludes any actions against, or rights of recovery from, any persons or entities not Parties hereto.

12.15 Notice. All notices required hereunder shall be in writing or in electronic format and shall be deemed to have been given when mailed by first class mail to the respective address, when sent via email to the respective email address, or when sent via receipted facsimile to the respective facsimile number, specified in the applicable Customer Order or in the applicable Registration and as updated in accordance herewith.

Customer Order Form

222 Merchandise Mart Plaza, Suite 1750
Chicago, IL 60654
Ph: 312.881.2000
Fax: 866.320.1021
Tax ID #: 04-3626476

Contract Number: 070573
Contract Date: 4/17/2017
Sales Rep: Mallori Kleeman
Offer Valid Through: 5/30/2017

Customer Information

Bill to:
Customer: POOLPACT
Attn: Marshall Smith
Address: 201 S. Roop ST. Suite 102
Carson City, NV 89701

Ship to:
Customer: City of Elko
Attn: Adeline Thibault
Address: 1751 College Ave
Elko, NV 89801

Terms and Conditions

Related Contract: Not Applicable
Contract Start Date: Fourteen (14) calendar days after execution
Contract End Date: Determined upon execution
Term: 3 Years
Coverage: 12 Location(s)

PO Number:
Payment Terms: Net 30
Billing Frequency: Annually
Initial Invoice Due: 30 Days from Execution

MSDS Management	Qty	Year 1	Year 2	Year 3
HQ Account	1	\$2,199.00	\$2,199.00	\$2,199.00
Management Licenses - HQ	2	\$0.00	\$0.00	\$0.00
Total:		\$2,449.00	\$2,199.00	\$2,199.00

Services	Qty	Year 1	Year 2	Year 3
Implementation Services	1	\$250.00		

This Customer Order is governed by the terms and conditions of the attached MSDSonline Master Subscription Agreement (MSA). By signing below, Customer agrees to be bound by such terms and conditions. Note: Customer will be required to acknowledge MSDSonline's standard MSA during their first login to the system. MSDSonline acknowledges the MSA attached takes precedence. MSDSonline may deem this Customer Order null and void if executed agreement is not received by MSDSonline by the "Offer Valid Through" date listed above, or if the document is returned with handwritten changes.

POOLPACT

Signature: _____
Name: _____
Title: _____
Date: _____

MSDSonline

Signature: _____
Name: _____
Title: _____
Date: _____

Base subscription pricing includes:

- 1 annual HQ subscription(s) for the Customer and its employees included within the Coverage of this agreement
- A Primary Account Administrator and 1 Additional Administrator(s). Additional Administrators may be purchased for \$100 USD per Administrator.
- Unlimited MSDS database searches, views and additions to the eBinder.
- Annual allotment of 50 MSDS Requests and 100 MSDS Uploads. Additional MSDS Requests may be purchased in bundles of fifty (50) for \$200 USD; additional MSDS Uploads may be purchased in bundles of (100) for \$200 USD.
- Implementation Services and Customer/Technical Support.

Implementation Service: MSDSonline will provide implementation assistance that includes the following:

- An assigned contact who will escort you through the implementation process.
- Assistance with the configuration of the system in a manner most suitable to your environment.
- Training (phone or Web conference) to any named system administrator (Primary or Additional).
- Help facilitating the deployment of your system across your organization.
- Unlimited access to the Customer Care and Technical Support resources to answer any questions you may have (between the hours of 7am and 7pm CST).

Unless otherwise noted, all fees are in USD, and Year One (1) fees become due within 30 calendar days of the execution of this Customer Order Form. The Base Subscription period will commence on the Contract Start Date, as noted on page one (1) of this agreement; the Contract Start Date will become the subscription "anniversary date". Subsequent yearly fees will be invoiced between 45 and 60 days before each anniversary date, with payments due prior to each anniversary date. Customer may at its discretion pre-pay the full term of the agreement. Sales tax associated to this Order will appear on the invoice, where applicable.

Customer Order Form

222 Merchandise Mart Plaza, Suite 1750
Chicago, IL 60654
Ph: 312.881.2000
Fax: 866.320.1021
Tax ID #: 04-3626476

Contract Number: 070572
Contract Date: 4/17/2017
Sales Rep: Mallori Kleeman
Offer Valid Through: 5/30/2017

Customer Information

Bill to:

Customer: City of Elko
Attn: Adeline Thibault
Address: 1751 College Ave
Elko, NV 89801

Ship to:

Customer: City of Elko
Attn: Adeline Thibault
Address: 1751 College Ave
Elko, NV 89801

Terms and Conditions

Related Contract: Not Applicable
Contract Start Date: Upon Execution
Contract End Date: Determined upon execution
Term: 3 Years
Coverage: 12 Location(s)

PO Number:
Payment Terms: Net 30
Billing Frequency: Annually
Initial Invoice Due: 30 days from execution

Services	Qty	Year 1
eBinder Valet	500	\$2,500.00
GHS Classification & Labelling	500	\$250.00
On-Site Chemical Inventory Audit	1	\$4,511.00
Total:		\$7,261.00

This Customer Order is governed by the terms and conditions of the MSDSonline Master Subscription Agreement, as posted on www.MSDSonline.com. By signing below, Customer agrees to be bound by such terms and conditions. MSDSonline may deem this Customer Order null and void if executed agreement is not received by MSDSonline by the "Offer Valid Through" date listed above, or if the document is returned with handwritten changes.

City of Elko

Signature: _____

Name: _____

Title: _____

Date: _____

MSDSonline

Signature: _____

Name: _____

Title: _____

Date: _____

Compliance Services Project – eBinder Valet: MSDSonline will build the Customer's electronic MSDS library (eBinder) by sourcing the MSDSs that corresponds to each line item on a Customer-supplied inventory list for a flat fee of \$2500 USD based on there being up to 500 line items.

- Customer-supplied inventory list must be pre-approved.
- Standard Indexing package will be applied. Includes the following fields: Product Name, Product Synonyms, Product Code, Manufacturer Name, Supplier Name, MSDS Revision Date, Regulatory Format and Primary CAS Number.
- Additional fields may be indexed upon request (additional charges may apply).
- If the total number of inventory line items submitted falls below 500, MSDSonline will grant additional MSDS Requests and MSDS Uploads as credit.
- An additional charge of \$5.00 USD per line item will be assessed if the number of inventory line items exceeds 500.
- MSDSonline will obtain approval prior to proceeding on any work that will result in additional charges.

On-Site Chemical Inventory Audit: MSDSonline will provide a health and safety professional to conduct chemical product inventorying activities. MSDSonline will contact the facility and schedule the on-site work to coincide with facility personnel availability; work will be initiated promptly upon receiving written authorization to proceed.

- Professional will work closely with the facility representatives to identify products located on-site, recording the product name, product manufacturer, and storage location for each product requiring an MSDS.
- Estimated Service fees are based upon there being approximately 500 chemicals to inventory at 16 distinct locations.
- Work will be performed on a "time and materials" basis, at a professional rate of \$100 USD per hour plus travel expenses not to exceed \$2111 USD; MSDSonline will not exceed a total of 24 hours without prior written authorization.
- Customer will be billed for the actual hours and expenses incurred.

Unless otherwise noted, all fees are in USD, and Year One (1) fees become due within 30 calendar days of the execution of this Customer Order Form. The Base Subscription period will commence on the Contract Start Date, as noted on page one (1) of this agreement; the Contract Start Date will become the subscription "anniversary date". Subsequent yearly fees will be invoiced between 45 and 60 days before each anniversary date, with payments due prior to each anniversary date. Customer may at its discretion pre-pay the full term of the agreement. Sales tax associated to this Order will appear on the invoice, where applicable.

Customer Order Form

222 Merchandise Mart Plaza, Suite 1750
 Chicago, IL 60654
 Ph: 312.881.2000
 Fax: 866.590.4961
 Tax ID #: 04-3626476

Contract Number: RS-057346
Contract Date: 4/13/2017
Sales Rep: Mike Bruffey
Offer Valid Through: 5/19/2017

Customer Information

Bill to:
Customer:
Attn:
Address:
 PoolPact - Nevada Public Agency Insurance Pool - Public Agency
 Compensation
 Marshall Smith
 201 S. Roop ST. Suite 102
 Carson City, NV 89701

Ship to:
Customer:
Attn:
Address:
 PoolPact - Nevada Public Agency Insurance Pool - Public
 Agency Compensation
 Marshall Smith
 201 S. Roop ST. Suite 102
 Carson City, NV 89701

Terms and Conditions

Related Contract: Not Applicable
Contract Start Date: 9/27/2017
Contract End Date: 9/26/2020
Term: 3 Years
Coverage: 100 Location(s)

PO Number:
Payment Terms: Net 30
Billing Frequency: Annually
Initial Invoice Due: 9/27/2017

MSDS Management	Qty	Year 1	Year 2	Year 3
Private Partner Interface	1	\$14,500.00	\$14,500.00	\$14,500.00
Total:		\$14,500.00	\$14,500.00	\$14,500.00

This Customer Order is governed by the terms and conditions of the attached MSDSonline Master Subscription Agreement (MSA). By signing below, Customer agrees to be bound by such terms and conditions. Note: Customer will be required to acknowledge MSDSonline's standard MSA during their first login to the system. MSDSonline acknowledges the MSA attached takes precedence. MSDSonline may deem this Customer Order null and void if executed agreement is not received by MSDSonline by the "Offer Valid Through" date listed above, or if the document is returned with handwritten changes.

PoolPact - Nevada Public Agency Insurance Pool - Public Agency Compensation

Signature: _____
 Name: _____
 Title: _____
 Date: _____

MSDSonline

Signature: _____
 Name: _____
 Title: _____
 Date: _____

Base Subscription Licensing Includes:

- Annual subscription to MSDS Management account for up to 100 Public Agency Compensation Trust Online Safety Manager (PPOSM) users for an annual fee of \$14,500.
- Subscription includes unlimited MSDS database searches, views and additions to the eBinder and 25 MSDS requests per account per year.
- Should the number of PPOSM users exceed 100, additional licenses may be purchased in blocks of 5 users for \$725.00/year/block.

Customer may add HQ account licenses at any time during the term of this agreement for their members. These HQ accounts will be priced per member based on the pricing matrix below, which represents a special discount only available for POOL PACT. These prices are annual licensing that will be added with separate customer order forms to this agreement and can be done one (1) at a time. Details of each HQ account will be outlined on the corresponding order form.

Special Member Pricing	1-50 Employees	51-100 Employees	101-200 Employees	201-500 Employees	501-1000 Employees	Over 1001 Employees
HQ for POOL PACT	\$ 1,749	\$ 1,999	\$ 2,199	\$ 3,179	\$ 4,649	Call for pricing
Implementation	\$ 250	\$ 250	\$ 250	\$ 250	\$ 250	

* Pricing is an annual licensing cost for a 3 year term. Implementation is one time only
 For the HQ REGXR account please add 15% to the annual HQ Pricing listed above

Unless otherwise noted, all fees are in USD, and Year One (1) fees become due on the Contract Start Date, as noted on page one (1) of this agreement. The Contract Start Date reflects the subscription "anniversary date"; subsequent yearly fees will be invoiced between 45 and 60 days before each anniversary date, with payments due prior to each anniversary date. Customer may at its discretion pre-pay the full term of the agreement. Sales tax associated to this Order will appear on the invoice, where applicable.



HQ Account

Our HQ Account is a powerful solution for tracking, managing and reporting on hazardous chemicals and providing employees with immediate right-to-know access to safety data sheets.

Centralize Hazard Communication Across Your Organization

"The versatility and ease of use makes this a very strong product."

Dave Chapman, Brooks Health System

More than 5 million facilities in North America handle chemical materials. In the United States, OSHA reports that roughly 43 million American workers are exposed to hazardous chemicals on the job each year. To better protect workers, OSHA aligned its Hazard Communication Standard (HazCom) with the United Nations' Globally Harmonized System (GHS), which aims to synchronize hazard communication internationally. To date, more than 65 countries have adopted or are in the process of adopting GHS, including Canada.

Our HQ Account, which thousands of companies rely on in industries ranging from healthcare to manufacturing to construction to education — is designed to make your life easier and your workplace safer. As the name suggests, the HQ Account centralizes compliance across your organization. It's ideal for single- or multi-facility businesses that are looking for a more efficient, cost-effective way to manage chemical hazards and simplify compliance.

Safety Data Sheet Compliance

To prepare for the document churn resulting from GHS adoption, it's imperative that employers get their chemical libraries in order. Our cloud-based HQ Account can help. It combines unlimited access to our industry-leading database of manufacturer-original safety data sheets with easy-to-use obtainment, management and companywide deployment tools to help you manage your company's chemical inventory and ensure compliance.

Chemical Inventory Management

With our HQ Account, you can assign and manage chemical products to a customizable, multi-level location structure and utilize on-demand container-level chemical management, tracking,



Contact Mike or Marshall to learn how PACT members can receive a discount on MSDSonline's popular HQ Account.

mapping, and reporting tools to help you maintain a complete and accurate picture of the chemical hazards in your work environment. You can easily share this information with emergency responders, using our free Plan1 First Responder Share Service. Plus, advanced chemical approval and notification workflow tools let you control what chemicals to accept or ban from your work environment.

Right-to-Know Compliance

The HQ Account works seamlessly across multiple PC, laptop and mobile device platforms, so your entire workforce always has access to critical safety information. The user-friendly Web interface gives employees immediate right-to-know access to vital safety information, such as your company-specific SDSs and secondary container labels, now available in a variety of formats, including GHS, and compatible with Brady Label Printers BBP31 & 33.

Discover for yourself why thousands of employers trust their chemical inventory to MSDSonline — A VelocityEHS solution.

Call us toll-free at 1.888.362.2007 (U.S. & Canada Only). Outside the United States, call 1.312.881.2000.



Features

	HQ	HQ RegXR
Service Term	Up to 3 Years	Up to 3 Years
Primary Administrators	2	2
Additional Site Administrators	Optional (\$)	Optional (\$)
Multi-Site Compatibility	•	•
Mobile-Enabled Functionality	•	•

MSDS Management

Search MSDSonline Database	Unlimited	Unlimited
Open, View, Print MSDSs	Unlimited	Unlimited
Save MSDSs to Secure eBinder	Unlimited	Unlimited
Upload Local MSDS Files to eBinder	Max.300*	Max.300*
Request Missing MSDSs	Max. 150*	Max. 150*
Auto-Update New Versions	•	•
Assign & Manage Products to Multi-Level Locations	•	•
Assign Products to Custom Groups	•	•
Access MSDSonline Master Chemical List (for Indexing)	•	•
MSDS Indexing Modules (e.g., PPE, Health Hazards, etc.)	•	•
Generate Product Summary Sheets	•	•
Generate Workplace Labels (NEW - Brady BBP31 & 33 compatibility)	•	•
Generate Exportable Reports	•	•
Batch Print MSDSs	•	•
MSDS Library Backup (PC, CD, DVD, Flash Drive, etc.)	•	•
Multi-Language Right-to-Know MSDS Search Interface	•	•
Employee Access to MSDSonline Database	•	•

Chemical Inventory Management

Multi-Level Location Tracking & Mapping (NEW)	•	•
Plan1 First Responder Share Service (NEW)	•	•
Detailed Container Tracking & Reconciliation Reporting	•	•
Barcode Generation & Printing	•	•
Chemical Inventory Scanner Application	•	•
Banned Chemical Flagging & Management	•	•
Advanced Material Approval Routing	•	•
Configurable Email Notifications	•	•
Unit of Measure Conversion & Chemical Quantity Calculation	•	•

Environmental & Regulatory Reporting

DHS List Flagging & Threshold Reporting	•	•
EPCRA Section 302 EHS List Flagging & Threshold Reporting	•	•
EPCRA Section 313 Form R Chemical Release Reporting	•	•
Exportable Product Cross-Reference Reports	•	•
Regulatory List Cross-Reference (Summary Sheet) Module	•	•
Federal, State & Global List Cross-Referencing	-	•

Special Member Pricing	1-50 Employees	51-100 Employees	101-200 Employees	201-500 Employees	501-1000 Employees	Over 1001 Employees
HQ List Price	\$ 2,749	\$ 2,749	\$ 2,749	\$ 3,949	\$ 5,799	Call for pricing
HQ for POOL PACT	\$ 1,749	\$ 1,999	\$ 2,199	\$ 3,179	\$ 4,649	
Implementation	\$ 250	\$ 250	\$ 250	\$ 250	\$ 250	
* Pricing is an annual licensing cost for a 3 year term. Implementation is one time only						
For the HQ REGXR account please add 15% to the annual HQ Pricing listed above						

Benefits

Millions of MSDSs at Your Fingertips

24/7 access to the industry's leading database of safety data sheets ensures your company's library is up-to-date and in compliance.

Simplify Compliance

Easy-to-use tools help you meet hazard communication requirements (OSHA / WHMIS / GHS), including hazard determination, right-to-know access, labeling, safe chemical handling, PPE, and more.

Improve Chemical Management

Robust chemical management tools provide greater container-level control over the location, status and risk associated with the chemicals you use. Our free mobile Chemical Inventory Scanner App lets you scan barcode/QR code labels for in-the-field container management.

Mobile-Enabled Functionality

Intelligent UI design delivers remote access to your chemical inventory information whenever and wherever you need it, via your mobile device.

Regulatory Compliant

Multiple back-up options mean your system meets OSHA, WHMIS and other regulatory requirements for electronic safety data sheet /chemical management.

Quick ROI & Low Cost of Ownership

The HQ Account pays for itself by eliminating time-consuming, manual administrative tasks. Plus, there's no software to install or maintain, and you get immediate access to new features.



Functionality	HQ Account	PPI
Search MSDSonline Database	Yes	Yes
Open, View, Print MSDSs	Yes	Yes
Save MSDSs to Secure eBinder	Yes	Yes
Auto-Update New Versions	Yes	Yes
1 Account Administrator & 1 Additional MSDS Management License	Included	1 Admin only
Access via ANY Desktop, Laptop, Smartphone, Tablet	Yes	No
Multi-Site Compatibility	Yes	No
Mobile-Enabled Functionality	Yes	No
Access to Mobile Applications	Yes	No
Upload Local MSDS Files to eBinder	Yes	No
Request Missing MSDSs	Yes	No
Assign & Manage Products to Multi-Level Locations	Yes	No
Access MSDSonline Master Chemical List (for Indexing)	Yes	No
MSDS Indexing Modules (e.g., PPE, Health Hazards, etc.)	Yes	No
Generate Product Summary Sheets	Yes	No
Generate Workplace Labels - GHS/Secondary Containers	Yes	No
Generate Exportable Reports	Yes	No
Batch Print MSDSs	Yes	No
MSDS Library Backup (PC, CD, DVD, Flash Drive, etc.)	Yes	No
Multi-Language Right-to-Know MSDS Search Interface	Yes	No
Employee Access to MSDSonline Database	Yes	No
Multi-Level Location Tracking & Mapping	Yes	No
Plan1 First Responder Share Service	Yes	No
Detailed Container Tracking & Reconciliation Reporting	Yes	No
Barcode Generation & Printing	Yes	No
Configurable Email Notifications	Yes	No
Additional MSDS Management Licenses	Yes	Not available

END OF ITEM 10

Greetings:

Attached to this email, please find the Inspection Report for the Pahrump Community Swimming Pool, which was conducted by Aquatic Safety Research Group on June 13, 2017. We appreciate the cooperation and hospitality which you showed Tom and Rachel during their visit.

With reference to the items listed in the "Priority" section of the report, please develop a plan to address each of the items in their relative priority rating. It is very important that the high priority items be addressed as soon as reasonably possible. We recognize that your entity may have budgetary limitations. However, high priority matters relating to personal safety must be addressed as soon as possible. If a high priority item cannot be addressed immediately, it should be removed or rendered inaccessible to your employees and/or members of the public until it can be addressed, repaired, or replaced. I want you to know that Pool/Pact is here to assist in helping you address these items.

Below are the various means which may be available to assist with all the items:

1. Risk Management Grants. Please use the following link to find more information as well as the grant application. Please call me should you have any questions about the program.
 - a. General information: <http://www.poolpact.com/risk-grant.asp>
 - b. Grant Application: <http://www.poolpact.com/risk-management-grant-app1.asp>
2. Rick Hudson from Loss Control is also available to meet with you on-site to address those items which require immediate attention and may be able to provide ideas regarding temporary repair, denial of access, or removal.
 - a. Rick Hudson (775) 223-9770 rick.hudson@willistowerswatson.com
3. Tom and Rachel Griffiths are also available to assist with any questions or clarification of anything in the Report you may have.
 - a. Tom Griffiths Aquatic Safety Research Group (814) 883-0058
www.AquaticSafetyGroup.com

I will be contacting you within the next two weeks to discuss the Report and your plan to address those items which require attention.

In the meantime, please do not hesitate to call me should you have any questions or need additional information.

Thank-you.

END OF ITEM 11

safe² tell Nevada

tip report flowchart

S2T uses P3 cloud-based software with autofill and dropdown boxes. Tips come through hotline, text, mobile app, or website. The reports display dialog between reporter and DPS, type of incident, and location. Reports are shared with all team members.

S2T Report received by DPS, live 24/7

Active threat of school violence or suicide to local (& district) law enforcement 24/7

Active suicide risk to Crisis Call Hotline 24/7- (possibly active mental health crisis to Mobile Crisis Outreach Team)

District response protocol

School Multi-Disciplinary Team receives report and responds timely during school hours

Resource Officer

- school violence
- drugs and other illegal activity

Administrator

- leadership
- bullying
- discipline
- parent communication

Social Worker &/or Counselor

- connect with student
- screen, assess, refer as necessary
- connect to school and community resources
- warm hand off & follow up

Counselor &/or Social Worker

- connect with student
- screen, assess, refer as necessary
- academic, behavioral, and social support
- connect to resources

Exact member roles will be decision of team

Communication – parents, guardians, teachers, other school and team members

Action: Team member closes report in S2T (P3) system, three clicks in drop down boxes

Action: Team member enters information in Infinite Campus per school protocol, continues follow-up

Reason: These data will be used to evaluate the success of S2T. P3 allows users to quickly and accurately pull data, statewide and by district and school upon request, on types of student concerns and threats to school safety, without districts having to pull reports for NDE.

Reason: Many districts have connected their school forms, such as bullying investigation and parent letters, to Infinite Campus; also, IC is being enhanced to allow documentation of student referrals to supports (PBIS/MTSS) and community services. IC data will help demonstrate the success of S2T as well as show the need for and benefit of resource officers, counselors, social workers; IC will also collect data necessary to compete for and participate in federal and state grants. The MDT begins the process of connecting students with specific needs to the system of Integrated Student Supports (AB275).

Questions? Contact S2T NV Co-coordinator Sarah Adler at sarahmadler@gmail.com or 775.742.3222

Coming
January
2018 –
a robust
opportunity
to help
students in
need

safe² tell Nevada

Show you care. Use safe²tell



WHAT is **Safe2Tell Nevada**? – A student and school safety program of the Nevada Department of Education (NDOE) in cooperation with the Nevada Department of Public Safety (NDPS). It will create an **anonymous report line with live response 24/7/365** by NDPS. It will be accessed by toll-free phone, website, or mobile app. Tips are delivered to the school, and to law enforcement and crisis responders when necessary.

WHY create a new tool? Safe2Tell **includes and goes beyond bullying** to create an anonymous way to also report threats of school violence and friends at risk of suicide, self-harm, drugs and more.

HOW are we paying for this? The NDOE Office for a Safe and Respectful Learning (OSRLE) and its partner, Pacific Institute for Research and Evaluation, **received a grant to fund the tip line technology for four years**. Because it is a research grant, S2T will roll out to **Cohort 1 in January 2018 and Cohort 2 in September 2018**. Cohorts have been identified and district communication is underway.

WHO will respond to the tips? **It's a team approach**, with the team membership and process to be developed by each principal and key members of his/her staff. It is anticipated that the team will include **a school administrator, a school resource officer/law enforcement (or a shared one), and a therapeutic element – a counselor, social worker, or both**.

HOW will this actually work? See the flowchart. Also, **OSRLE is working closely with district leadership to integrate** the technology with existing processes and to plan and deliver training for School Team members. We will also collaborate on how best to engage students and parents with Safe2Tell.

Districts and schools all over Nevada are making strides in PBIS, youth mental health, Multi-Tier System of Supports, positive school climate and more. **Safe2Tell creates a simple way for students to report when their friends (or they themselves) are in need of support, so the way is cleared for academic focus**. It is not about tattling, gossip, or crying wolf – it is a 24/7 mechanism for connecting students-in-need to responsive adults.

Questions? Contact S2T NV Co-coordinator Sarah Adler at sarahmadler@gmail.com or 775.742.3222

END OF ITEM 12

POOL/PACT'S RISK MANAGEMENT TOOLS AND PROGRAMS

PREVENTION OF INJURY AND LOSS THROUGH RISK MANAGEMENT

POOL/PACT provides its members with a substantial array of risk management tools, policies, procedures, training, and information. The following information is designed to inform all members in general, and safety directors specifically, about the risk management programs which are designed to reduce and/or eliminate risks to the public, members, and their employees.

POOL/PACT Loss Control Committee

The Loss Control Committee is responsible identifying risks and developing, administering, and supervising risk management policy, procedure, and planning as well as developing and administering risk control techniques to reduce the frequency and severity of losses. The Committee also administers the Risk Management Grant Program.

Risk Management Grants

POOL/PACT provides funding for various risk reduction/mitigation programs.

1. Risk Management Educational Grants: The Educational Grant program may be applied for any time of the year. Funds may be used to attend a risk management seminar or conference such as AGRIP, PRIMA, PARMA, SHRM, or ASSE. These funds may also be used to host risk management-centered training at the member's location or attending web-based trainings.
2. Risk Management Grants are available for general risk management/reduction projects such as purchasing equipment that promotes employee or premises safety, purchase of equipment or materials that facilitate OSHA or other regulatory compliance.
3. Applications and further information may be found at <http://www.poolpact.com/risk-grant.asp>.

On-Line E-Learning Safety Courses

OSHA Rights and Responsibilities * Slips, Trips, and Falls * Office Ergonomics * MRSA Awareness in Hospitals/Corrections * Strip Search Training * The Complex Quadriplex of Lifeguard Blindness * Cyber Security Awareness * Bloodborne Pathogens * Back Safety in the Workplace * Asbestos Training * Heat-Related Illnesses * GHS Hazard Communication * Defensive Driving * OSHA Ladder Safety * Infectious Diseases in Schools * Contracting Fundamentals * Swimming Pool Safety for Employees * OSHA 30 and OSHA 10 Certifications

Site Safety Inspections, Training, and Audits

Playground & Parks Safety Surveys

Identification of hazards on public playgrounds using ASTM standards, establish a system of repair, retrofit, and/or removal of hazardous equipment.

Workstation Ergonomic Evaluations

Evaluations and education provided to decrease the risk of repetitive strain injuries caused by improper workplace set-up and/or ill-fitted workstation equipment.

Confined Space Risk Assessments

Surveys provided to support the identification and classification of confined spaces. Risk assessments conducted to determine acceptable policies, procedures, and training in compliance with OSHA's Confined Space Standards.

Facility Surveys

Surveys can be conducted to identify hazards in an effort to reduce or eliminate hazards and prevent potential loss or injury including fire and life safety, earthquake remediation, slip, trip, and fall hazards, electrical hazards, machine guarding.

Fire Extinguisher Education

The use of a fire extinguisher in the hands of a trained person can be a life and property saving tool. However, most people have not had fire extinguisher training and don't know how and when to properly use fire extinguishers. Fire extinguisher use requires a sound decision-making process and training on proper use and maintenance.

Respirator Fit Testing and Education

Respirators protect workers against insufficient oxygen environments, harmful dusts, fogs, smoke, mist, gas, vapor, and spray, which may cause cancer, lung impairment, other diseases and death. Compliance with Respiratory Protection Standards could avert hundreds of deaths and thousands of illnesses annually.

CPR/First Aid/AED Education and Training

First Aid, CPR, and Automated External Defibrillator (AED) training and certification meets the needs of workplace responders, emergency responders, and professional rescuers, school staff, and healthcare providers as well as the general public.

Accident Investigation Training

Incident and accident investigation should be an integral part of any loss control program. The unexpected actions of people, equipment, supplies, or surroundings cause most accidents. Accident investigations determine how and why these unexpected actions occur and are used to help prevent future accidents.

Back Safety and Lifting

According to the Bureau of Labor Statistics, more than one million workers suffer back injuries each year, and back injuries account for one of every five workplace injuries or illnesses. Learning proper lifting techniques and the basics of back safety can assist in prevention or reoccurrence.

Defensive and Distracted Driver Education

Defensive Driver Education ensures that participants receive the training they need to drive defensively; knowledge, skills, and perspective that will help them continue to prevent injuries and save lives. Distracted Driver Education provides training on recognizing and

avoiding unsafe driving habits. This awareness is a step in addressing and stopping deadly practices.

Workplace Violence

Workplace Violence awareness and prevention involves understanding and recognizing indicators and appropriate subsequent action plan de-escalate potentially violent situation from essential components of workplace violence prevention.

Personal Protective Equipment

Occupational Safety and Health Administration (OSHA) requires the use of Personal Protective Equipment (PPE) to reduce employee exposure to hazards when engineering and administrative controls are not feasible or effective in reducing these exposures to acceptable levels. If PPE is to be used, a PPE program should be implemented. Such a program should address the hazards present; the selection, maintenance, and use of PPE; the training of employees; and monitoring of the program to ensure its ongoing effectiveness.

Emergency Preparedness

Emergency preparedness is designed to provide a source of information and resources for preparing for and responding to public emergencies.

OSHA Compliance Training

Hazard Communications: Chemicals pose a wide range of health and physical hazards. Hazard Communications is training designed to ensure that information about these hazards and associated protective measures are known. POOL/PACT provides members with a subscription service to *EHS/Velocity – MSDS Online*, which is an on-line service to identify, control, and monitor all on-site hazardous materials.

Blood Borne Pathogens: Participants learn how bloodborne pathogens are spread and how to prevent exposure incidents by following work practice controls. Topics include engineering controls, PPE, personal hygiene, cleaning/disinfecting equipment and supplies; and recognizing, reporting, and following up on employee exposures to infectious materials. POOL/PACT can assist a member with establishing an Exposure Safety Plan.

Lockout/Tagout Training: Lockout/Tagout training covers the servicing and maintenance of machines and equipment in which the unexpected energization or startup of the machines or equipment, or release of stored energy, could harm employees. This standard/training establishes minimum performance requirements for the control of hazardous energy.

Electrical Safety: Working with electricity can be dangerous. Electricity can be a serious workplace hazard. Electrical Safety training is necessary to educate and protect employees exposed to dangers such as electric shock, electrocution, fires, and exposures. POOL/PACT can also provide infrared heat inspections to discover failing electrical systems.

Safety Program and Committee Training: Generally, Nevada employers with 10 or more employees are required to have a Written Workplace Safety Program. Employers with 25 or more employees are required to have a Safety Committee. POOL/PACT can assist with review, updating, or implementing a Safety Program for any of its members.

Loss Control Excellence Program: Each member is served by a dedicated loss control representative who is available to meet with the member and explore various loss control strategies appropriate for their given operations. The Loss Control Excellence Program (LCEP) involves a rigorous review of the member's policies and procedures geared towards the reduction of loss. Members who complete the program receive a cash award and a plaque representing their commitment to implementing effective loss control measures. Additionally, upon completion of the LCEP, the member may appoint a representative to sit on the Loss Control Committee and participate in development of loss control programs.

Wellness/Health Education and Training

Diet/Nutrition/Portion Control: Portion control is an important concept when you are trying to lose weight and keep it off. Education and training can assist employees with tools to implement appropriate serving sizes.

Cardiovascular Disease and Lung Health: POOL/PACT partners with Specialty Health to identify high-risk individuals and develop a plan to address and resolve risk factors and provide multiple resources to return individuals to good health.

Stress Management: Stress management involves controlling and reducing the tension that occurs in stressful situations by making emotional and physical changes. The degree of stress and the desire to make the change will determine how much improvement takes place.

Weight and The Workforce: Understanding the importance of weight management is critical to a healthy lifestyle. Proper nutrition and diet training can greatly improve the quality of life.

Swimming Pool Safety Policies, Inspections, and Training

POOL/PACT can provide comprehensive aquatic facility and program assessments. Such assessments will assist pool directors/supervisors with maintaining proper pool documentation (permits, inspections, operations manuals, emergency procedures, operator certifications, lifeguard certifications, accident reports, and inspection logs; emergency procedure and lifeguard skill assessments; employee chemical safety training; fencing, volunteer policies, premises assessment, water chemistry, equipment inspections, ladders, steps, and boards; pool decking review; pool safety equipment; and compliance with Nevada Administrative code. POOL/PACT also sponsors an annual Aquatics Risk Management seminar.

Law Enforcement Training and Policies

POOL/PACT has partnered with the Legal Liability Risk Management Institute (LLRMI). LLRMI is a network of risk management professionals dedicated to enhancing professionalism, effectiveness, and risk management of public safety/criminal justice through training, policies, procedures, and legal support. It provides a team approach when assisting Nevada law enforcement agencies and can address specific needs through a network of legal experts on state and federal standards as well as subject matter experts in accepted practices for law enforcement, jails/corrections, and other areas of public safety and criminal justice.

Cyber Security Training and Policies

POOL/PACT provides its members with a vast array of information and programs for cyber security services and provides advice and information in support of data protection and cyber security enhancement which includes help with strengthening physical, personnel, administrative, and operations through a variety of training, policies, and procedures. These policies will enhance the security postures for each member organization. POOL/PACT can also provide cyber security event hotline services.

School District Emergency Operations Plans, Training, and Policies

Development of NRS required School Safety and Emergency Operations Plans; updating and standardizing individual emergency management and training programs; providing best practices in the FEMA Guide for High Quality School Emergency Operations Plans, Homeland Security Presidential Directive; providing Hazard Vulnerability Assessment and Report.

2017 Risk Management POOL/PACT Sponsored Trainings

International Safety School Safety Institute Conference, October 11-12, 2017
Sierra Chapter of the American Society of Safety Engineers, November 8, 2017

For additional information, contact:

Marshall Smith, Risk Manager

marshallsmith@poolpact.com

(775) 887-2240

Website: www.poolpact.com

END OF ITEM 13

POOL/PACT Loss Control

Strategic Plan 2017-2020

Mission and Vision

The mission of the Loss Control Committee is to deliver risk control services by planning, promoting, and implementing safety, health, and environmental initiatives to protect public assets and reduce losses.

Voting Committee Members

- Cash Minor, Elko County - Chairman
- Bob Spellberg, Gardnerville Ranchos GID
(alternate chair)
- Steve West, Winnemucca
- John Dollar, Incline Village G.I.D.
- Bryce Boldt, Boulder City
- Geof Stark, Churchill County
- Vacant

Voting Alternates:

- Darren Wagner, Yerington
- Dan Murphy, Pershing County Schools
- Ann Wiswell, Carson City School District

Strategies 2016-19

- OSHA and ADA Compliance
- E-Learning curriculum development
- Emergency Planning
- Claims Analysis
- Wellness/Body Mechanics
- Auto/Driver Safety training
- Data Risk Awareness
- LCEP Administration
- Grant Program Administration
- Annual Risk Management Summit:
May 18-19 2016 (Completed)

OSHA & ADA Compliance

- Fire Extinguisher Training
- Respiratory Protection Fit Testing
- Global Harmonization Systems Training
 - **Added MSDSonline (HQ Platform) June 2017**
- Online Safety Courses
 - OSHA Rights and Responsibilities * * Strip Search Training * The Complex Quadriplex of Lifeguard Blindness * Cyber Security Awareness * Bloodborne Pathogens * Back Safety in the Workplace * Asbestos Training * Heat-Related Illnesses * GHS Hazard Communication * Defensive Driving * OSHA Ladder Safety * Infectious Diseases in Schools * Contracting Fundamentals * Swimming Pool Safety for Employees * OSHA 30 and OSHA 10 Certifications

E-learning courses for 2016-17

- Effective Safety Programs
- Electrical Safety
- OML, Ethics & Open Records Act
- Fire Extinguisher Safety
- Forklift Operation
- Hearing Loss Prevention
- Infectious Disease

New E Learning Courses:

- Ladder Safety
- Personal Protective Equipment
- Respiratory Protection Programs
- Contracting Fundamentals
- Civil Rights Training for School Lunch Programs
- Children In Transition and Aversive Restraints
- Teaching Science Safely
- Student Threat Assessment Teams
- Swimming Pool Chemical Safety for Employees

Emergency Planning

- Coordinate with local emergency management contacts
- Monitor preparedness of members
- Serve as a resource
- Non-structural earthquake mitigation
- School Site Safety Assessments
- Cyber/Threat Security Planning

Claims Analysis/Bench Marking

Special Emphasis on:

- Aging Workforce Trends
- Cyber liability development
- Property losses; impact of aging infrastructure

Data Risk Solutions

- Data Security Awareness training for members
- E-Risk Hub access for management/IT
- Data Security Project
- Potential of offering data vulnerability assessments to members
 - Completed 4 Passive Network Assessment with numerous PNAs planned

Wellness/Body Mechanics

- Stryker grant impact
- Fit Responder
- Focus on: Employee and Healthcare sector
 - Added Specialty Health 27/7/365

Risk Management Summit

- MAY 18-19, 2016

Risk Management Grant

Purpose:

As an incentive for Members to invest in risk management and safety efforts, a POOL and PACT risk management grants program is established as an ongoing program supported by each pool.

Funding Amounts:

Each pool will provide up to 1% of its net assets, initially \$100,000 each, for the grants program.

Loss Control Excellence Awards 2015-16

- Eureka County
- Pershing County
- White Pine CSD

Loss Control Excellence Awards 2016-17

- Southern Nevada Health District (pending)

END OF ITEM 15