Date: February 22, 2018

To: State Board of Fire Services

From: Joe Bunn, Fire Service Training Specialist III, State Fire Training

SUBJECT/AGENDA ACTION ITEM:
FSTEP Confined Space Awareness Curriculum (2017)

Recommended Actions:
Approve the FSTEP Confined Space Awareness Curriculum (2017).

Background Information:
By November 20, 2014 all of the initial Certification Track curricula had been developed, validated and approved by STEAC and the State Board of Fire Services. During the process of moving numerous Course Plans through the system, a discussion developed around the certification process. When NFPA identifies the Job Performance Requirements (JPR), a greater emphasis is placed on skill development and the demonstration of proficiency. It was determined that SFT look seriously at the creation of FSTEP courses for continuing education and/or professional development, utilizing the new streamlined SFT curriculum development model.

Based on that discussion, it was determined that a budget for updating existing or creating new curricula addressing missing information from NFPA or legacy curriculum to the new Course Plan format be created, but not necessarily based solely from an NFPA standard as are the certification tracks. However, for the purposes of updating future curricula it should be noted that whenever possible, utilizing the NFPA standard as the bloodline of the material should be established. This ensures that on an ongoing basis the curriculum will remain current and represent the latest industry best practice. This concept of developing FSTEP courses from the legacy courses or new curriculums for the purpose of continuing education and professional development was approved by STEAC on April 18, 2014. Accordingly, classes are identified each fiscal year, cadre leads assigned and curriculum cadres are created. One of the identified courses was to update the Confined Space Awareness FSTEP course.
The designated cadre of experienced subject matter experts with extensive technical search and rescue experience were selected from various agencies and backgrounds in the mission to update, revise and/or change the content to translate into an FSTEP course.

**Cadre Leadership:**
Joe Bunn, Deputy Chief (ret) US&R CA-TF8, Laura Garwood Meehan, Cadre Editor, Sacramento State.

**Development Cadre Members:**
Andrew Murtagh, Firefighter, San Francisco Fire Department, Justin Klopfenstein, Captain, Oceanside Fire Department, Jim Colston, Battalion Chief, San Marcos Fire Department, Andrew Kibby, Captain, Cal Fire Department, Riverside Unit, Justin Moore, Captain, Fresno City Fire Department, Kent Freeman, Retired Captain, Roseville Fire Department, William Ballard, Battalion Chief, Bakersfield Fire Department.

Several of the cadre members are State Fire Training Registered Instructors and presently teach the legacy course for Confined Space Awareness. All have extensive operational experience with Confined Space at all levels and Special Operations. The development of the material required one multi-day session. Because this is a FSTEP Course Plan, the development of a Certification Training Standards (CTS) was not required. However, Terminal Learning Objectives (TLO) was established from the JPR’s that typically would be in the CTS. The TLO’s and the supporting Enabling Learning Objectives (ELO) were developed from NFPA 1670 Standards on Operations and Training for Technical Search and Rescue Incidents (2017), NFPA 1006 Standards for Technical Rescue Personnel Professional Qualifications (2017), CAL-OSHA CCR, Title 8, Articles 108 and 5157. Additionally, the cadre reviewed NFPA Standards 1500, 1521 and 1561 aided as supporting material.

The breakdown of the 8-hour FSTEP course is as follows:

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<th>Incident Management of Special Operations</th>
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<tr>
<td>Didactic</td>
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<td>Activities</td>
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</table>

**Analysis/Summary of Issue:**
Following is an analysis of the new FSTEP course being developed.

1. The legacy course for Confined Space Awareness was developed in 1995 and has not been officially updated since that time. This course was developed from NFPA 1006 (2017), 1670 (2017) and the legal and operational aspects required by the current CAL-OSHA CCR, Title 8, Article 108 & 5157 respectively.
2. This new course provides an awareness level training of the requisite knowledge, skills, and abilities for those responsible for initial actions when on scene of a potential confined space incident. This course was established and developed directly from the JPR’s in the form of TLO’s and the supporting ELO’s. It should be noted that the new standards potentially could move into the technical operational arena. At any level confined space incidents are high-risk low frequency events. All instructors should when facilitating this course insure that all students understand what the different levels of operation are with the emphasis of safety of all personnel.
3. The core of the content utilizes current NFPA 1006, and 1670 standards. This course meets on the awareness level only, however is in alignment of FIRESCOPE, Cal OES and FEMA National Urban Search & Rescue reference material. Any career personnel or volunteer personnel that is responding to a potential Confined Space will benefit greatly from content of this course.

4. Following the Homeland Security Presidential Directive-5 definition and requirements for ICS training and would greatly benefit from such training to insure the safety of all personnel on this type of incident.

The curriculum update was approved by STEAC on January 12, 2018.
Confined Space Awareness
Implementation of New Curriculum

This document is intended to provide information for all State Fire Training (SFT) stakeholders on the new Confined Space Awareness Curriculum (2017), a replacement of the Confined Space Awareness (1995) curriculum. Stakeholders are encouraged to study this information carefully and seek clarification from SFT if questions arise. NOTE: Special attention should be paid to this new updated FSTEP course, as it is NOT included in any of SFT certification tracks at this time.

Confined Space Awareness (2017) curriculum will replace the present Confined Space Awareness that was developed in 1995 and has not been officially updated since that time. The new Course Plan has been developed based on current National Fire Protection Association (NFPA) Standards, which includes NFPA 1006, Rescue Technician Professional Qualifications (2017), NFPA 1670, Standard on Operations and Training for Technical Search and Rescue Incidents, NFPA 1561 Standard on Emergency Services Incident Management System and Command Safety (2014), CAL-OSHA CCR, Title 8, Articles 108 and 5157 respectively. This course meets the awareness level only, however is in alignment with FIRESCOPE, CAL OES, and FEMA National Urban Search and Rescue reference materials. Additionally, NFPA 1500, 1521, 1561 aided as supporting documents when creating the Course Plan. The Course Plan will be available on the SFT website.

Confined Space Awareness (2017) Change Timeline

FULL IMPLEMENTATION............................................................Effective September 1, 2018
COURSE PHASE OUT ..................................................................................... Effective August 31, 2018

Effective August 31, 2018, Confined Space Awareness (1995) course will no longer be delivered and the curriculum will be retired.

INSTRUCTOR REQUIREMENTS ............................................................. Effective September 1, 2018

Current registered instructors of the Confined Space Awareness (1995) course are authorized to instruct the new updated Confined Space Awareness (2017) course.

New instructors for Confined Space Awareness (2017) course shall meet the SFT requirements for Registered Instructor, and will be required to either take the course or apply for a Pace II review of their instructor qualifications, including appropriate education and practical experience relating to course content.

Additionally, a new instructor of the Confined Space Awareness (2017), a FSTEP course, the following shall apply:

1. Rank and Professional Experience:
   a. Held the rank of suppression officer within a Recognized Fire Agency in California for a minimum of three years or;
   b. Worked as a volunteer suppression officer or paid call officer with a Recognized Fire Agency in California for a minimum of five years.
   c. Specific expertise in command level strategy and tactics at Technical Rescue Incidents.

SFT STAFF COORDINATION

This FSTEP course will replace the former Confined Space Awareness course developed in 1995.

POTENTIAL AGENCY IMPACTS

Fire agencies utilizing the existing Confined Space Awareness (1995) should have little or no impacts making the transition from the legacy course to the new update curriculum for training or operational implementation.

 Accredited Regional Training Programs (ARTP), Accredited Local Academies (ALA), community colleges and all other local delivery venues need to review the curriculum and seek approval from their curriculum committee/program sponsor, as appropriate.
Confined-Space Rescue Awareness

Course Plan

Course Details

Description: This course provides awareness-level instruction in identifying a permit and nonpermit required confined space, the hazards associated with confined spaces, state regulations and industry standards, incident management, communications, and equipment requirements. This course does not qualify participants to make permit-required entries.

Designed For: Emergency responders

Authority:
- Cal-OSHA CCR Title 8 Article 108 § 5157

Prerequisites: None

Corequisites: None

Standard: Complete all activities and formative tests.
- Complete all summative tests with a minimum score of 80%.

Hours:
- Lecture: 6:05
- Activities: 1:55

Hours (Total): 8:00

Maximum Class Size: 60

Instructor Level: Trained to the confined-space operations or technician level

Instructor/Student Ratio: 1:60

Restrictions: None
SFT Designation: FSTEP
Required Resources

Instructor Resources
To teach this course, instructors need:

- Cal-OSHA CCR Title 8 Article 108 § 5157
- Department of Transportation Emergency Response Guidebook (DOT ERG)
- Policies and procedures of the authority having jurisdiction

To teach this course, instructors may choose to use:

- Training for Hazardous Materials Response: Confined Space Rescue (IAFF)
- Manufacturers’ videos, manuals, and directions for equipment use

Online Instructor Resources
The following instructor resources are available online at http://osfm.fire.ca.gov/training/instructorresources.php:

- Cal-OSHA CCR Title 8 Article 108 § 5157

Student Resources
To participate in this course, students need:

- Any textbook(s) required by the instructor
Facilities, Equipment, and Personnel

The following facilities, equipment, or personnel are required to deliver this course:

Equipment

- AV equipment
Unit 1: Introduction

Topic 1-1: Orientation and Administration

Terminal Learning Objective
At the end of this topic, a student will be able to identify facility and classroom requirements and identify course objectives, events, requirements, assignments, activities, resources, evaluation methods, and participation requirements in the course syllabus.

Enabling Learning Objectives
1. Identify facility requirements
   - Restroom locations
   - Food locations
   - Smoking locations
   - Emergency procedures
2. Identify classroom requirements
   - Start and end times
   - Breaks
   - Electronic device policies
   - Special needs and accommodations
   - Other requirements as applicable
3. Review course syllabus
   - Course objectives
   - Calendar of events
   - Course requirements
   - Student evaluation process
   - Assignments
   - Activities
   - Required student resources
   - Class participation requirements

Discussion Questions
1. To be determined by the instructor

Activities
1. To be determined by the instructor
Unit 2: Overview of Confined Spaces

Topic 2-1: Identifying Regulations and Standards

Terminal Learning Objective
At the end of this topic, given applicable regulations and standards, a student will be able to identify the regulations and industry standards relating to confined-space incidents.

Enabling Learning Objectives
1. Describe the difference between a regulation or law and a standard
   - Titles
   - Codes
   - Regulations
   - Laws
   - Acts
   - Guidelines
   - Standards
2. Identify the applicable industry regulations
3. Identify the applicable industry standards

Discussion Questions
1. Which are mandatory, laws or standards? Which are recommended?

Activities
1. The instructor must create an activity directing students to differentiate between laws and standards.

Instructor Resources

Topic 2-2: Describing the History and Dangers of Confined-Space Incidents

Terminal Learning Objective
At the end of this topic, given reports and industry standards, a student will be able to describe the history behind the dangers of confined spaces and describe the industry-recognized levels of training.

Enabling Learning Objectives
1. Identify historical reports and dangers
   - Worker Deaths in Confined Spaces
     - Most deaths were “would-be rescuers”
   - Current confined-space related death statistics
2. Recognize confined space rescue training levels
   - Awareness
   - Operations (no longer offered in California)
• Technician

Discussion Questions
1. Who was the most likely to get injured in the 1994 report?
2. What is the difference between the awareness and technician levels of training?

Activities
1. The instructor must present case studies.

Instructor Notes
2. The instructor should refer to: The Confined Space Guide, California Department of Industrial Relations, 2012.

Topic 2-3: Defining and Recognizing a Confined Space

Terminal Learning Objective
At the end of this topic, a student, given Cal-OSHA CCR Title 8 Article 108 § 5157, will be able to define and recognize a confined space.

Enabling Learning Objectives
1. Recognize the space is large enough and so configured that an employee can bodily enter and perform assigned work
2. Recognize the space has limited or restricted means for entry or exit; for example:
   • Tanks
   • Vessels
   • Silos
   • Storage Bins
   • Hoppers
   • Vaults
   • Pits
3. Recognize the space is not designed for continuous employee occupancy

Discussion Questions
1. What kinds of confined spaces might you encounter in your authority having jurisdiction (AHJ)?

Activities
1. To be determined by the instructor

Instructor Notes
1. Ensure that students can recognize a confined space.

Topic 2-4: Defining and Recognizing a Permit-Required Confined Space

Terminal Learning Objective
At the end of this topic, a student, given Cal-OSHA CCR Title 8 Article 108 § 5157,
will be able to define and recognize a permit-required confined space.

**Enabling Learning Objectives**
1. Recognize a confined space that contains or has a potential to contain a hazardous atmosphere
2. Recognize a confined space that contains a material that has the potential for engulfing an entrant
3. Recognize a confined space that has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section
4. Recognize a confined space that contains any other recognized serious safety or health hazard

**Discussion Questions**
1. What is the difference between a confined space and a permit-required confined space?
2. To be permit required, does a space need to be confined?
3. What kinds of permit-required confined spaces might you encounter in your AHJ?

**Activities**
1. To be determined by the instructor

**Instructor Notes**
1. Ensure that students can recognize a permit-required confined space.
2. Instructor should refer to Cal-OSHA CCR Title 8 Article 108 § 5157 for definitions.

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**Unit 3: Confined-Space Incidents**

**Topic 3-1: Recognizing Hazards**

**Terminal Learning Objective**
At the end of this topic, a student, given a confined-space incident, will be able to recognize and identify all incident hazards.

**Enabling Learning Objectives**
1. Identify all incident hazards
2. List types and nature of confined-space hazards
   - Atmospheric hazards
     - Modified oxygen
     - Flammability/airborne combustible dust
     - Toxicity
   - Engulfment hazards
     - Finely divided solids
     - Liquids
   - Physical/mechanical hazards
   - Environmental hazards
   - Corrosive hazards
   - Biological hazards
   - Psychological hazards
3. List types and use of technical references
   - Department of Transportation Emergency Response Guidebook (DOT ERG)
   - Safety Data Sheets (SDS)
   - Other site work permits (including site-specific entry permits)

Discussion Questions
1. What hazards might you encounter in different industries?
2. What are the different characteristics of various kinds of confined spaces found in your AHJ?
3. How can a hazard inside the confined space become a hazard in the area adjacent to a permit-required confined space?
4. What are the signs, symptoms, and behavioral effects of exposure to these atmospheric hazards?
5. How would these hazards affect you as a first responder?

Activities
1. To be determined by the instructor

Instructor Notes
1. Instructor should refer to Cal-OSHA CCR Title 8 Article 108 § 5157.
2. Instructor should refer to NFPA 1006 Standard for Technical Rescue Personnel Professional Qualifications (2017), paragraph 7.1.2.
3. Instructor should refer to Confined Space Entry and Rescue Manual.

Topic 3-2: Isolating Hazards and Minimizing Risks

Terminal Learning Objective
At the end of this topic, a student, given scene control barriers and personal protective equipment (PPE), will be able to initiate isolation procedures, considering hazard isolation and minimizing risks to rescuers and victims.

Enabling Learning Objectives
1. Describe isolation terminology, methods, equipment, and implementation
   - Lockout/tag out
   - Energy control (gravity, electricity, mechanical, etc.)
2. Place scene control
   - Establish control zones
   - Atmospheric monitoring
   - Ventilation
3. Identify common types of rescuer and victim risk
4. Describe risk/benefit analysis methods and practices
5. Assess victim survival profile (risk/benefit)

Discussion Questions
1. What are the various isolation procedures?
2. Why is atmospheric monitoring performed?
3. Why is there a need for ventilation?
Activities

1. Instructor must create an activity giving students visual cues and having them identify different types of isolation, monitoring, and ventilation techniques.

Instructor Notes

1. Instructor should refer to NFPA 1006 Standard for Technical Rescue Personnel Professional Qualifications (2017), paragraph 7.1.2
2. Depending on the class participants, the instructor may choose to refer to The Rule of 1300 in Training for Hazardous Materials Response: Confined Space Rescue (IAFF).

**Topic 3-3: Recognizing the Need for Support Resources and Managing Resources**

**Terminal Learning Objective**

At the end of this topic, a student, given a specific type of rescue incident, a student will be able to recognize the need for confined space support resources, managing a resource cache, providing scene lighting for the tasks to be undertaken, managing environmental concerns, facilitating personnel rehabilitation, and so that the support operation facilitates rescue operational objectives.

**Enabling Learning Objectives**

1. Manage personnel rotations
2. Recognize the need for decontamination
3. Describe equipment organization and tracking methods (NIMS or ICS)
4. Track equipment inventory
5. Designate rehab areas
6. Determine rehab criteria
7. Identify structures for shelter and thermal protection
8. Identify lighting resources

**Discussion Questions**

1. What are some examples of additional resources for a confined-space incident?
2. Considering the number of involved resources, what would be the logistical concerns of managing the incident location?

Activities

1. To be determined by the instructor.

**Instructor Notes**

None

**Topic 3-4: Ensuring Resource Application Fits Requirements**

**Terminal Learning Objective**

At the end of this topic, a student, given personal protective equipment (PPE), requisite equipment, and available specialized resources, will ensure resource application fits the operational requirements and take into account rescue time constraints.

**Enabling Learning Objectives**

1. Define equipment types and their use
• PPE, including chemical protective clothing
• Respiratory protection
• Harnesses
• Communications equipment
• High-point anchor
• Retrieval systems
• Monitoring devices
• Ventilation

2. Identify operational requirement concerns
• Awareness
• Operations
• Technician

Discussion Questions
1. What are the different types of:
   • PPE
   • Respiratory protection
   • Harnesses
   • Communications equipment
   • High-point anchor
   • Retrieval systems
   • Monitoring devices
   • Ventilation
2. To what level do personnel need to be trained in order to conduct an entry rescue?

Activities
1. To be determined by the instructor.

Instructor Notes
1. Instructor should refer to NFPA 1006 Standard for Technical Rescue Personnel Professional Qualifications (2017), paragraph 7.1.2.

Topic 3-5: Recognizing the Need for Technical Rescue Resources

Terminal Learning Objective
At the end of this topic, a student, given incident information, a means of communication, resources, tactical worksheets, personnel accountability protocol, applicable references, and standard operating procedures, will be able to recognize the need for technical rescue resources at an incident, using references, accounting for personnel, deploying necessary resources to achieve desired objectives, documenting incident actions, coordinating rescue efforts, establishing the command structure, communicating and monitoring task assignments, and ensuring actions are consistent with applicable regulations.

Enabling Learning Objectives
1. Describe implementation of incident management system
2. Describe tactical worksheet application, completion, and purpose
3. Describe accountability protocols of the AHJ
4. Describe documentation methods and requirements
5. Define availability, capabilities, and limitations of rescuers and other resources
6. Describe types of tasks and assignment responsibilities
7. Review policies and procedures of the AHJ
8. Identify technical references related to the type of rescue incident
9. Evaluate incident information
10. Match resource types and deployment methods to operational needs
11. Manage incident communications to meet operational needs
   • Communications requirements, methods, and means
   • Communication challenges

Discussion Questions
1. What are the entry policies of your AHJ?
2. What are some examples of tactical worksheets?
3. What are some examples of communication challenges at a confined-space incident?

Activities
1. The instructor should create an activity directing students to review a tactical worksheet.

Instructor Notes
None

Topic 3-6: Initiating Search

Terminal Learning Objective
At the end of this topic, a student, given hazard-specific PPE, equipment pertinent to search mission, a confined space incident location, and victim investigative information, will be able to initiate a search in areas immediately adjacent to the space, establishing search parameters, establishing the victim profile, questioning the entry and exit of all people either involved in the search or already within the search area and updating the information and relayed it to command, matching the personnel assignments with personnel expertise, locating all victims in the areas adjacent to the space as quickly as possible, managing applicable technical rescue concerns, minimizing risks to searchers, and accounting for all searchers.

Enabling Learning Objectives
1. Describe local policies, procedures, and regulations
2. Describe how to operate in the environment surrounding the confined space access area
3. Describe how to enter, maneuver in, and exit the areas adjacent to the confined space incident
4. Describe emergency evaluation procedures for when conditions become untenable

Discussion Questions
1. What areas can you not enter to search at an awareness level?
2. What information should be gathered as part of establishing a victim profile?
Activities
1. The instructor must create an activity directing students to examine a visual aid and identify areas that can be searched within their level of training (awareness).

Instructor Notes
1. Ensure that for ELO #3, the student understands that they are only authorized to be in areas adjacent to the confined space, not within the confined space.

Topic 3-7: Establishing and Communicating Victim Survival Profile

Terminal Learning Objective
At the end of this topic, a student, given a clear environment and a confined space, will be able to communicate with victim(s), establishing victim communication when possible and documenting information relative to patient condition and conveying the information to incoming confined-space rescue resources.

Enabling Learning Objectives
1. Describe how to use information acquired for initial victim assessment
2. Select communication methods that are effective from the outside to the inside of a confined space
3. Identify how to establish communication with the victim
4. Describe methods for documentation and transfer of victim information

Discussion Questions
1. What forms of communication should you use to assess the victim’s survival profile?
2. What information should you gather from the victim to convey to incoming resources?

Activities
1. The instructor must create an activity in which the students determine survival profile based on:
   - Visual assessment
   - Verbal communications
   - Hazard assessment conducted in Topic 3-1

Instructor Notes
1. This terminal learning objective applies to nonentry methods of victim communication only. Awareness-level personnel cannot enter a space for rescue.

Topic 3-8: Evaluating and Performing of Nonentry Rescue

Terminal Learning Objective
At the end of this topic, a student, given PPE; an anchored retrieval system attached to a victim located inside a confined space with a clear interior; safety, communication, and operational protocols; and a confined space rescue tool kit, will be able to perform nonentry rescue, operating the retrieval system to extract the victim, protecting the rescuer from fall hazards when working near unprotected edges, establishing and maintaining victim
communication, managing the victim through the portal, and initiating patient care on extraction

**Enabling Learning Objectives**
1. Describe principles of operation for retrieval equipment
2. Describe the use of nonentry rescue (retrieval) systems and equipment
3. Describe PPE and methods for fall prevention
4. Describe safety, communication, medical, and operational protocols and how to implement them
5. Describe methods for assuring victim passage through the portal without obstruction

**Discussion Questions**
1. What are the different types of rescue? (self-rescue, nonentry rescue, and entry rescue)
2. What are some examples of a nonentry rescue?
3. What are some risks associated with a nonentry rescue?

**Activities**
1. The instructor must create an activity using audio-visual training aids that demonstrate nonentry retrieval systems. Retrieval includes the operation of common nonentry retrieval systems. Examples include simple winch and block devices used in conjunction with tripods, quadpods, or other manufactured portable anchor systems. A nonentry retrieval can simply involve operating the crank on a winch/ tripod system where anchors and protection systems are already in place (NFPA 1670 [2017] Standard on Operations and Training for Technical Search and Rescue Incidents, A.7.2.4[5]).

**Instructor Notes**
1. It is critical that the instructor ensure students understand the risks of nonentry rescue and the restrictions placed upon them by the policies and procedures of the AHJ.
2. The instructor may choose to use AV equipment for the activity or to actually have the students complete a manipulative activity. Completing a manipulative activity will require that the time allotted be adjusted and will require adjusting the instructor-to-student ratio.

**Topic 3-9: Describing the Positions and Components of a Permit-Required Confined-Space Entry**

**Terminal Learning Objective**
At the end of this topic, a student, given Cal-OSHA CCR Title 8 Article 108 § 5157, will be able to describe the mandatory positions and components of a permit-required confined-space entry.

**Enabling Learning Objectives**
1. Describe the duties and responsibilities of
   - Authorized entrant
   - Attendant
   - Entry supervisor
2. Describe the mandatory components of a permit-required confined space entry
   - Training
• Equipment
• Standard operating procedures of the AHJ
• Entry permit
• Energy control
• Provision for rescuer standby
• Atmospheric monitoring
• Retrieval line
• Appropriate harness
• Mechanical device (5 feet or greater)
• Communications

Discussion Questions
1. What are the mandatory components of a confined-space entry permit?

Activities
1. The instructor must create an activity directing students to review an entry permit.

Instructor Notes
1. The instructor must review the most current version of Cal-OSHA CCR Title 8 Article 108 § 5157 and any other applicable regulations.

Topic 3-10: Terminating the Incident

Terminal Learning Objective
At the end of this topic, a student, given available tools, will be able to properly terminate the incident, including performing rehab, debriefing personnel, inventorying and inspecting equipment, and completing documentation.

Enabling Learning Objectives
1. Describe the documentation process
2. Describe debriefing personnel
   • Location and position of the victim
   • Surroundings where the victim was found
   • Specific problems encountered
   • Any additional information
3. Recognize the need to assign personnel to rehab
   • Postincident monitoring
   • Hydration
4. Identify considerations for critical incident stress debriefing for all involved personnel
5. Determine equipment considerations
   • Inventory
   • Accounting for damaged equipment
   • Cleaning, maintaining, logging, and restocking
6. Describe the process of securing the space until investigation is complete
7. Describe postincident analysis
8. Describe the process for canceling and filing/storing the entry permit
9. Describe Cal OSHA notification requirements if death or serious injury occurred

**Discussion Questions**
1. Why are personnel rehab and critical incident stress debriefing important?
2. What types of documentation must be completed?
3. What are your AHJ’s steps that must be taken in the event of an accident, injury, or death?
4. What are the Cal OSHA mandatory reporting requirements?

**Activities**
1. To be determined by the instructor

**Instructor Notes**
1. Instructor must review or provide examples of an after-action report.
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<th>Lecture Time</th>
<th>Activity Time</th>
<th>Total Unit Time</th>
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<td>Topic 1-1: Orientation and Administration</td>
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<td>Activity 1-1: To be determined by instructor</td>
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<td><strong>Unit 1 Totals</strong></td>
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<tr>
<td><strong>Unit 2: Overview of Confined Spaces</strong></td>
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<td>Topic 2-1: Identifying Regulations and Standards</td>
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<td>Activity 2-1: Differentiating between laws and standards</td>
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<td>Topic 2-2: Describing the History and Dangers of Confined-Space Incidents</td>
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<tr>
<td>Activity 2-2: Case studies</td>
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<td>Topic 2-3: Defining and Recognizing a Confined Space</td>
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<td>Activity 2-3: To be determined by instructor</td>
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<td>Topic 2-4: Defining and Recognizing a Permit-Required Confined Space</td>
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<td>Topic 3-7: Establishing and Communicating Victim Survival Profile</td>
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<td>Activity 3-8: Demonstrating nonentry retrieval systems</td>
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Course Totals

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Acknowledgments

State Fire Training gratefully acknowledges the following individuals and organizations for their diligent efforts and contributions that made the development and publication of this document possible.

Cadre Leadership

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*Sacramento State University*

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**Partners**

State Fire Training also extends special acknowledgement and appreciation to the Conference and Training Services Unit with the College of Continuing Education at California State University, Sacramento, for its ongoing meeting logistics and curriculum development support, innovative ideas, and forward-thinking services. This collaboration is made possible through an interagency agreement between CAL FIRE and Sacramento State.