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Semester Effective: Spring 2016

Industrial Education Safety (IES) 1125 Passport and Medic First Aid Refresher (.25 Unit)

Prerequisite: Successful completion of Industrial Education Safety 1107 with a grade of “C” or better

Prerequisite knowledge and skills:

Before entering the course, the student should be able to:

1. perform all skills needed to respond to the immediate circumstances of an injury or sudden onset illness,
2. take the steps necessary to protect the care initiator from the hazards associated with lending aid to an injured or suddenly ill patient, and
3. understand the importance of maintaining control of an accident scene until emergency medical personnel arrive.

Total Hours: 7 hours lecture; 1 hour lab (8 hours total)

Catalog Description: This course covers the basic level of safety awareness required of all contractor personnel working on the properties of the California Oil Producers. Inclusion of First aid and CPR refresher training is intended to review knowledge, practice skill sets, and introduce new concepts and skills as necessary to support patients until the arrival of professional emergency response personnel. Course is repeatable if mandated for training requirements as a condition of continued paid or volunteer employment.

Type of Class/Course: Non Degree Credit

Textbook:

Medic First Aid International, Inc. *Student Guide, 7.0* Eugene, OR: HIS, 2013. Print.

Additional Materials: None

Course Objectives:

By the end of the course, a successful student will be able to:

1. Apply the information necessary to satisfy the safety orientation requirements for working on the properties of the California oil producers,
2. Evaluate patient support needs using new concepts that may have evolved since the student’s last instruction,
3. Perform new skill sets that emergency medical professionals have developed,

4. Perform all skills needed to respond to the immediate circumstances of an injury or sudden onset illness,
5. Evaluate and perform the steps necessary to protect the care initiator from the hazards associated with lending aid to an injured or suddenly ill patient, and
6. Select and implement the most effective methods for maintaining control of an accident scene and protect the patient until emergency medical personnel arrive

Course Scope and Content:

Passport (3.5 Hours Lecture)

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| Unit I | California Oil Producers' Orientation Video <ol style="list-style-type: none">A. Overview of hazards that may be encounteredB. California Oil Producers' safety and health expectations while working on their properties |
| Unit II | Behavioral Based Safety Orientation <ol style="list-style-type: none">A. BBS programsB. Focus of BBS programs |
| Unit III | Job Planning/Job Safety Analysis <ol style="list-style-type: none">A. Methods of identifying hazardsB. Why JSA's should be usedC. JSA procedures |
| Unit IV | Producers' Permit Procedures <ol style="list-style-type: none">A. Types of Safe Work Permits (SWP)B. ResponsibilitiesC. SWP process and procedures |
| Unit V | Endangered Species <ol style="list-style-type: none">A. Rules when endangered species are encounteredB. Environmentally sensitive areas |
| Unit VI | Hazard Communication <ol style="list-style-type: none">A. Contractor responsibilitiesB. Employee responsibilitiesC. Chemical hazardsD. Labels and Global Harmonized System/Safety Data Sheet (GHS/SDS) |
| Unit VII | Proposition 65 <ol style="list-style-type: none">A. Intent and purposeB. Required signage |
| Unit VIII | Hydrogen Sulfide (H ₂ S) <ol style="list-style-type: none">A. CharacteristicsB. Effects of exposureC. LocationsD. Air MonitoringE. Emergency rescue and evacuation |

- Unit IX Personal Protective Equipment
 - A. Standard PPE required
 - B. Special PPE
 - C. Jewelry and hair precautions

- Unit X Control of Noise
 - A. Effects on hearing
 - B. Types of hearing protectors
 - C. Locations of expected excessive noise

- Unit XI Safe Work Practices
 - A. General responsibilities
 - B. Basic work rules

- Unit XII Confined Space Entry Awareness
 - A. Characteristics and types
 - B. Hazards
 - C. Atmosphere Monitoring

- Unit XIII Cranes, Slings and Rigging
 - A. General rules
 - B. Operator responsibilities
 - C. Types and uses

- Unit XIV Overhead Power Line Policy
 - A. Overhead power line safety
 - B. “Look Up and Live” Flag Policy
 - C. Loading and Transportation
 - D. Work site procedures

- Unit XIV Fall Protection
 - A. Types
 - B. Fall arrest equipment

- Unit XV Excavation and Trenching
 - A. Hazards
 - B. Backhoe hazards

- Unit XVI Heat Illness Prevention
 - A. High Heat Procedures
 - B. Signs and symptoms of heat illness
 - C. Response to heat illness

- Unit XVII Producers’ Safety Requirements
 - A. Summary of topics covered

- Unit XVIII Course Assessment
 - A. 28 question test

Medic First Aid Refresher (3.5 Hour Lecture)

- Unit I Review Role of the First Aid Provider
 - A. Emergency first aid care
 - B. Recognizing an emergency
 - C. Deciding to help
 - D. Personal safety
 - E. Using barriers

- Unit II Review Approaching the Patient
 - A. Assessing for response
 - B. Mechanism for spinal injury
 - C. Activating Emergency medical services (EMS)

- Unit III Review Basic Life Support
 - A. Circles of care
 - B. Airway
 - C. Clearing the Airway – Log roll
 - D. Protecting the airway – Recovery position
 - E. Breathing – Rescue ventilation
 - F. Circulation – Chest compressions
 - G. Unresponsive Patient
 - H. Adult compression – Only CPR
 - I. Sudden Cardiac Arrest – Using an AED (Automatic External Defibrillator)

- Unit IV Review Bleeding and Shock
 - A. Control of bleeding
 - B. Managing Shock

- Unit V Review Choking
 - A. Foreign body airway obstruction

- Unit VI Review Continuous Patient Care
 - A. Ongoing assessment

Lab Content for Medic First Aid Refresher:

Guided hands-on practice (1 Hours Lab)

1. Hands-on practice scenarios
 - A. Walkthrough SETUP –
Stop, Evaluate Environment, Evaluate Traffic, Determine Unknown Hazards, Protect Self and Patient
 - B. Practice donning and doffing personal barriers
 - 1) Gloves
 - 2) Ventilation shield
 - 3) Mask
2. Communicate with patient
3. Stabilize the head
4. Contact EMS
5. Establish the airway using Head-Tilt, Chin-lift method

6. Clear solid and fluid materials from airway
7. Use recovery position to protect airway
8. Apply rescue ventilation using shields
9. Apply chest compressions
10. Use an AED
11. Apply direct pressure to control bleeding
12. Position and maintain body temperature to manage shock
13. Use the accepted methods to clear airway of a choking patient

Learning Activities Required Outside of Class:

The students in this class will spend a minimum of 30 minutes per week outside of the regular class time doing the following:

1. Further review topics specific to industry employed

Methods of Instruction:

1. Lecture
2. Practice exercises
3. This course may be taught without writing assignments

Methods of Evaluation:

1. Passport – Written exam
2. Medic First Aid Refresher – Performance observation
3. This course may be taught without writing assignments

Supplemental Data:

T.O.P. Code:	095670 Industrial Occupational Safety Health
Sam Priority Code:	B: Advanced Occupational
Funding Agency:	Y: Not Applicable
Program Status:	I: Program Applicable
Noncredit Category:	Y: Not Applicable
Special Class Status:	N: Course is not a special class

Basic Skills Status:	N: Not Applicable
Prior to College Level:	Y: Not Applicable
Cooperative Work Experience:	N: Course is not a part of a cooperative education program
Eligible for Credit by Exam:	No
Eligible for Pass/No Pass:	No