



**OSHA 5810
Hazards Recognition and
Standards
Training Course for the
US On-Shore Oil and Gas
Exploration and Production
Industry**

Course Overview

**OSHA 5810 (PILOT) Hazards Recognition and
Standards Course Scope**

- As the developing OSHA Outreach Program for the US on-shore oil and gas exploration and production industry the course is part of a voluntary program.
- Its purpose is to promote workplace safety and health and to make workers more knowledgeable about workplace hazards and their rights.
- Outreach training does not fulfill the training requirements found in OSHA standards.
- ***Employers are responsible for providing additional training for their workers on specific hazards of their job as noted in many OSHA standards.***
- *A list of standards requiring training are available from OSHA:*
[PDF*]

Hazards Recognition and Standards

Course Goal and Purpose

Course Goal:

Protect workers by providing companies active in the US on-shore oil and gas exploration and production industry with a foundation for the development of a comprehensive Health and Safety Training Program.

Course Purpose:

This course provides essential information for students to protect themselves by developing the knowledge and skills to anticipate, recognize, evaluate and control hazards common to the US on-shore oil and gas exploration and production industry.

Definitions:

“Oil and Gas” or **“Oil and Gas work site”** shall mean those work sites associated with the U.S. on-shore exploration and production oil and gas industry including, but not limited to **construction, drilling, completion, well servicing, production, product gathering and processing, and product transmission.**

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OSHA Oil & Gas E&P Standards Steering Committee

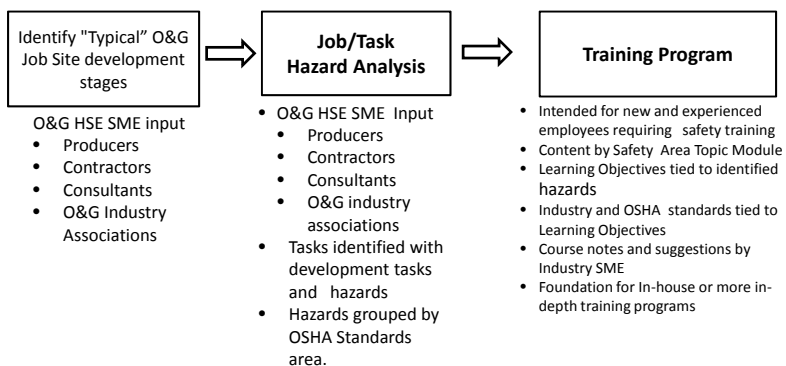
Breaux, Paul	IADC
Brown, Jeffrey R.	Newfield Exploration
Brown, Richard	Newfield Exploration
Dawson, Grant	Halliburton
Eustis Pete	PEC Premier
Hardy, Greg	Shell Exploration & Production Co.
Horseman, Barry L.	PEC/Premier Safety Management (Representing AESC)
Hurt, Joseph R.	International Assoc. of Drilling
Ingram, Rick	BP
Jordan, Kenny K.	Assoc. of Energy Services
Knight, Bill	Pioneer Natural Resources
Kuntz, Rod	Calfrac
Meagher, Megan	Regional OSHA Office Denver
Nave, Mark	Western Slope Safety Council
Penell, Jane E.	QEP Resources Inc
Richhart, Jake	New Field
Robinson, Dale	HR Safety Consulting LLC
Ryel, Joyce A.	Complete Production Services
Skipworth, Kevin	Anadarko
Smith, Alan	Pioneer Natural Resources
Thatcher, James	Encana Oil & Gas USA
Welschmeyer, Dan F.	Ensign United States Drilling
Breaux, Paul	IADC
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Robinson, Dale	HR Safety Consulting LLC /RMEC SME

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Hazards Recognition and Standards Course Development Process

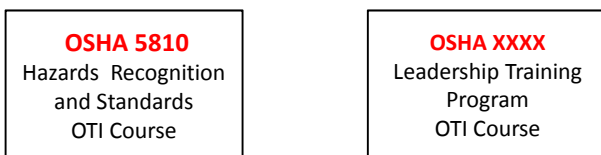


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OSHA Worker Safety Training in Oil and Gas E&P Courses in Development



- Hazards based
- Intended for employees transitioning into a foreman/supervisor and/or HSE role
- Pre requisite course for OSHA Authorized Trainers in the Oil and Gas Outreach Program
- Pre requisite for the OSHA Leadership Course for Oil and Gas
- Pilot – Summer 2012

- Intended for workers with HSE management responsibilities
- Learning Objectives tied to identified hazards associated with supervisor responsibilities (ex. reporting, accident investigation).
- Leadership strategies for those responsible for HSE of others
- Creating and maintaining a culture of safety in the multi employer - SiMOP environment

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OSHA 5810 Target Audience

- The 5810 course is intended for the full time employees of firms engaged in all phases of US on-shore oil and gas exploration and production.
- The student profile will likely include the following characteristics:
 - first line supervision and/or experienced individuals in skilled lead positions
 - solid job performance track record and is technically astute
 - considered potentially essential part of the future success and growth of the company.
 - “in-the-field” workers and likely work rotating shifts and have experience with the variety of weather and working conditions
 - experienced the job pressures of production schedules, equipment breakdowns and other challenges
 - experience working with one or more contractors on a work site.
 - Have their own perspective on job safety based on prior training and, more importantly, their own work site experiences.

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OSHA 5810 OTI Course

- The Hazards Based Standards Course is a 40 hour course consisting of 18 instruction modules. The course focusses on hazards that may be found in on-shore oil and gas exploration and production work sites throughout the United States.
- The instructional content of the course is primarily driven by subject matter experts from the Oil and Gas E&P industry working in cooperation with representatives from OSHA and NIOSH. The course is intended to engage the proven full employee with a solid foundation in safety principles and prepare the employee for further training in the Health, Safety and Environment area of his/her job responsibilities.
- Trainer Qualifications: (draft)
 - ____ years experience in on shore O&G E&P
 - ____ years experience in on shore O&G E&P HSE
 - OSHA OTI Qualified Instruction (1910)

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Review and Development Process

- Each Module's "Learning Objectives" are based on Job Skill and Hazard review by the Industry Steering committee.
- The Learning Objectives are referenced to:
 - OSHA regulations
 - Other Federal Regulations (DOT, EPA) are referenced where applicable to support or augment.
 - Recognized generally accepted industry practices (NFPA, API, Company RP's) are referenced to support or augment.

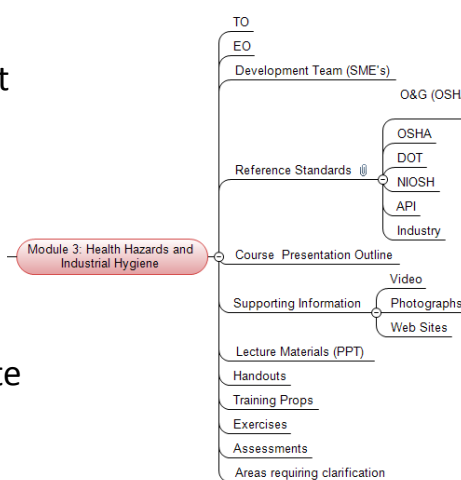
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Course Development Process

- Identify Module Topic SME(s)
- Refine development notes and EO's
- Validate EO's
- Assemble lesson plans, lecture materials, props
- Develop and validate assessments and exercises
- Pilot the training



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Identified Hazards

1. Adverse Weather Conditions,
2. Hot and cold weather health effects
3. Uneven and /or Unstable Ground,
4. Rough Terrain,
5. Overhead Power Lines,
6. Buried Utilities
7. Wildlife / Livestock,
8. Unhappy Land Owners,
9. Noise,
10. Day Or Night Time Operations,
11. Poor Illumination
12. Simultaneous Operations And Site Congestion,
13. Heavy Equipment,
14. Transportation,
15. Roll Over,
15. Blind Spots,
16. Slips, Trips, Falls,
17. Sprains And Strains,
18. Caught Between,
19. Pinched By,
20. Struck Or Crushed By,
21. Fall From Height,
22. Electrical,
23. Wire Line,
24. Blowout,
25. Hot Work,
26. Fire,
27. Explosives,
28. Explosion,
29. Pressure,
30. Chemicals,
31. Substance Abuse
32. Toxic Gases,
33. Radiation,
34. Confined Space Entry,
35. Excavations And Trenches,
36. Communication
37. Language
38. Worker Fatigue,
39. Workplace Violence,
40. Lone Worker.

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Key Subject Area Modules

- [Module 1: Course Introduction and Orientation \(2 hours\)](#)
- [Module 2: Safety, Health and Environmental Management Systems](#)
- [Module 3: Health Hazards and Industrial Hygiene](#)
- [Module 4: Hazard Communication](#)
- [Module 5: Personal Protective Equipment](#)
- [Module 6: Emergency Action Plans](#)
- [Module 7: Fire Protection and Prevention](#)
- [Module 8: Control of Hazardous Energy](#)
- [Module 9: Electrical Hazards](#)
- [Module 10: Machinery Hazards and Machine Guarding](#)
- [Module 11: Mechanical Lifting and Hoisting Equipment \(Material Handling\)](#)
- [Module 12: Walking and Working Surfaces](#)
- [Module 13: Fall Protective Systems](#)
- [Module 14: Confined Space](#)
- [Module 15: Excavation Trenching and Protective Systems](#)
- [Module 16: Inspection, Testing and Preventative Maintenance](#)
- [Module 17: Motor Vehicle Operation](#)
- [Module 18: So Now What](#)

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Module 1: Course Introduction and Orientation

TO 1: As a course delivery requirement, participants will be able to identify the role and function of OSHA and the objectives for the course.

EO 1.1: Discuss the background and history of OSHA and Industry.

EO 1.2: Discuss the objectives for course and the applicability to the Oil and Gas work site.

EO 1.3: Understand the various hazards, frequency rates, and historical events relevant to the Oil and Gas industries.

EO 1.4: Discuss the inspections, citations, proposed penalties and most frequently cited violations.

TO = Terminal Learning Objective
EO = Enabling Learning Objective

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Module 2: Safety, Health and Environmental Management Systems

TO 2: Students will develop a level of proficiency in the application of Safety, Health and Environmental management principles common to Oil and Gas work sites.

EO 2.1: Discuss the principles and application of a written, comprehensive injury and illness prevention program.

EO 2.2: Describe the goal and purpose of the site safety, health and environment planning .

EO 2.3: Discuss the principles and application of safety and health incident reporting requirements

EO 2.4: Discuss the importance, principles and application of a well-organized work site

EO 2.5: Discuss the principles and application of safety and health inspection.

EO 2.6: Discuss the principle and application of hazard mitigation (via engineering controls, administrative controls and the use of PPE).

Key Student "Take-Aways" (student will understand....)

- Stop work / Pause Work Authority are key strategies in a site safety plan.
- Understand roles and responsibilities outlined in the Safety Plan
- Describe how employee involvement is key to the success of a plan
- JSA as a tool for employees to understand and anticipate the hazards present on the work site.
- Challenges of a sim-ops work site
- Challenges of changing work site locations.
- How your actions can affect the safety of others and vice versa.

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Module 3: Health Hazards and Industrial Hygiene

TO 3: Students will be able to anticipate, recognize, evaluate and control health hazards common to Oil and Gas work sites.

EO 3.1: Discuss chemical exposures and acute and chronic health effects

EO 3.2: Describe biologic hazards (insects, animals, blood-borne pathogens) and acute and chronic health effects.

EO 3.3: Describe the environmental hazards and associated physical hazards and acute and chronic health effects .

EO 3.4: Discuss common sampling and monitoring methods for health and hygiene hazards.

EO 3.5: Discuss the principles and application of ergonomics (lifting, bending and repetitive motion) .

EO 3.6: Discuss Engineering Controls associated with systems

EO 3.7: Discuss Administrative Controls associated with systems and equipment

EO 3.8: Introduction to the role and function of PPE in relation to the health and hygiene hazards associated with systems and equipment common to an Oil and Gas Work Site.

Key Student "Take-Aways"

- Common health hazards
- Routes of entry
- Chronic affects from chemicals are subtle
- Beware that you can take home an exposure
- Precautions to take when working with chemicals.
- Methods of controlling hazards – Engineering, Administrative, PPE
- Basics of monitoring of hazardous substances.
- Availability of Health hazard job aid resources.

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Module 4: Hazard Communication

TO 4: Students will develop a level of knowledge of the methods and means used to inform and communicate chemical hazards common to oil and gas work sites.

EO 4.1: Identify and define the chemical hazard categories and their impact on a person.

EO 4.2: Discuss the principles and application of a written hazard communication program (employee right to know) .

EO 4.3: Discuss the purpose and principle elements and definitions of Safety Data Sheet.(SDS) .

EO 4.4: Discuss the elements of regulatory DOT signage or placards

EO 4.5: Discuss the elements of warning signage that may be encountered at an Oil and Gas work site.



Key Student "Take-Aways"

- Understand the hazard classifications (oxidizer)
- Container Label understanding and interpretation.
- Job aid for signage and labels
- The content and importance of the SDS
- Job Aid for SDS
- ERG familiarization

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Module 5: Personal Protective Equipment

TO 5: Students will be able to develop and demonstrate a level of knowledge of the proper selection, application, use and limitations of basic personal protective equipment (PPE) common to Oil and Gas work sites.

EO 5.1: Discuss the importance of a Certified PPE Hazard Assessment, its elements, and its application.

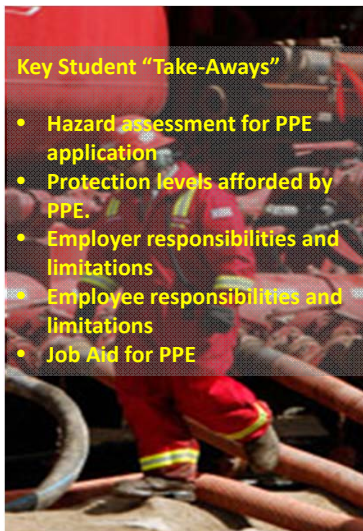
EO 5.2: Discuss the available types, applications and limitations of PPE

EO 5.3: Discuss the Employer and Employee responsibilities to obtain and use PPE .

EO 5.4: Discuss Inspection and Use criteria for PPE, including the manufacturer's recommendations

EO 5.5: Discuss specific training and retraining requirements for PPE usage and employer specific requirements.

EO 5.6: Demonstrate the donning and doffing of basic PPE common to an Oil and Gas work site.



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Module 6: Emergency Action Plans

TO 6: Students will develop a level of knowledge of potential emergencies and corresponding Emergency Action Plans common to Oil and Gas work sites.

EO 6.1: Discuss the recognition of potential emergencies associated with locations.

EO 6.2: Discuss the types of emergencies that may be encountered.

EO 6.3: Discuss the principles and applications of emergency action plans that may be encountered.

EO 6.4: Discuss the principles and application of a Well Control Plan.

EO 6.5: Discuss the proper location, use, inspection and maintenance of Emergency Medical Equipment including F/A Kits, AED's, Emergency Showers and Eye Wash Stations.

EO 6.6: Discuss the requirements for First Aid Training for both industry and First Responders.

EO 6.7: Discuss the importance of testing and practicing Emergency Management Plans (or ERP, EAP) at an Oil and Gas work site.

Key Student "Take-Aways"

- Understand most common types of emergencies
- Understand your role and actions for each type of emergency
- Understand the importance of practicing ERP



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Module 7: Fire Protection and Prevention

TO 7: Given OSHA standards and recognized generally accepted industry practices, students will be able to demonstrate a level of knowledge of fire protection and prevention principles common to Oil and Gas work sites.

EO 7.1: Define the (first responder) worker's role in fire protection and prevention and how to protect yourself. .

EO 7.2 Define the common flammable substances

EO 7.3 Describe fire characteristics causes and stages.

EO 7.4: Identify fire protection equipment.

EO 7.5: Discuss the proper application, use and care of fire protection equipment.

EO 7.6: Describe HOT WORK common to and fire prevention planning and methods.

EO 7.7: Describe HOT WORK and when permitting is required

EO 7.8: Discuss well control practices and the roles and additional training that is required

Key Student "Take-Aways"

- Understand your role as the first responder and natural tendencies.
- Understand the types of flammable substances that can often be found on a work site
- Understand fire and fire behavior
- Understand sources of ignition
- Understand the need for control of Welding process on the work site.
- Identify fire protection equipment and its limitations
- Understand the need to practice a response
- Understand the need to know where to go in an emergency.

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Module 8: Control of Hazardous Energy

TO 8: Students will be able to recognize and protect themselves from Hazardous Energy sources common to oil and gas work sites.

EO 8.1: Define (Recognize) hazardous energy sources.

EO 8.2: Discuss the principles and applications of the control or elimination of hazardous energy.

EO 8.3: Discuss the affected and authorized job types of personnel conducting LOTO.

EO 8.4: Discuss the training levels required of the personnel conducting LOTO.

EO 8.5: Discuss the principles, application and limitations of isolating devices and the training and authorization required to safely remove an isolation device.

EO 8.6: Discuss the importance of verification of isolation. Lock, TAG, Clear, TRY, verification of Lock out.

EO 8.7: Discuss the inspection requirements of LO/TO procedures .

EO 8.8: Define group lock out procedures in multiple employer or Sim-Op locations.

EO 8.9: Discuss communication of LOTO procedures and programs on multiple employer.

Key Student "Take-Aways"

- Recognition of hazardous energy sources.
- Methods for controlling hazardous energy.
- Understand the basics of LOTOTO and the need for job/site specific training.
- Understand respect for all LOTO's on multiple contractor sites.
- Understand the site communications associated with LOTOTO.



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Module 9: Electrical Hazards

TO 9: Students will be able to recognize and protect themselves from Electrical Hazards common to oil and gas work sites.

EO 9.1: Describe basic principles of electricity, electrical sources and hazards common to Oil and Gas work sites.

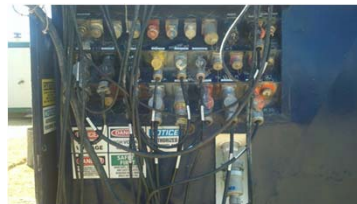
EO 9.2: Discuss the Inspection and use of electrical equipment .

EO 9.3: Describe the safe working distances from identified electrical energy sources.

EO 9.4: Discuss the sources of static electricity and the importance of the grounding and bonding of equipment.

EO 9.5: Discuss Area Electrical classifications and the proper application and use of intrinsically safe.

EO 9.6: Discuss the job activities which require additional specific training associated with electrical systems and qualified electricians including PPE as specified in NFPA 70E.



Key Student "Take-Aways"

- Understand the duties of the non-qualified person
- Understand how electricity can hurt you and common sources in O&G
- Understand area classifications
- Understand safe distances from electrical sources
- Understand static electricity and control
- Understand the hazards associated with RF generating devices
- Understand difference between Qualified and Non-Qualified persons.

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Module 10: Machinery Hazards and Machine Guarding

TO 10: Students will be able to recognize and protect themselves from mechanical equipment hazards common to Oil and Gas work sites.

EO 10.1: Describe machinery and associated hazards common to Oil and Gas work sites

EO 10.2: Describe the Fundamental Machine Guarding and other methods of protection.

EO 10.3: Discuss the controls associated with machinery used in the oil and gas equipment.

EO 10.4 Discuss the machinery inspection requirements.



Key Student "Take-Aways"

- Understand when machinery must be guarded
- Identify common pieces of equipment in O&G industry that require guarding
- Understand different methods of guarding

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Module 11: Mechanical Lifting and Hoisting Equipment (Material Handling)

TO 11: Students will be able to anticipate, recognize, evaluate and control the hazards of mechanical lifting and hoisting equipment and material handling common to Oil and Gas work sites.

EO 11.1: Discuss the “struck by” “caught between” and “pinch point” hazards associated with the movement and placement of materials and mobile lifting and hoisting equipment.

EO 11.2: Define the types of mechanical lifting and hoisting equipment, powered lift trucks and cranes and their classifications.

- a. Discuss the principles and application of safe work practices when working with derricks and cranes.
- b. Discuss the selection, inspection, safe work practice and their application of slings, straps, chains, pulleys, cable, rope
- c. Discuss the requirements for training, licensure and authorization to operate mobile equipment.


EO11.3: Discuss the proper securing and storage of materials common to Oil and Gas work sites.

Key Student “Take-Aways”

- Understand ways that equipment and loads can hurt you (striking, falling, failure)
- Understand methods for securing loads for lifting and storage
- Understand different types equipment used for lifting and hoisting including any special requirements for use
- Understand that there are additional requirements for cranes when used in construction application

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Module 12: Walking and Working Surfaces



TO 12: Students will be able to anticipate, recognize, evaluate and control the hazards and the associated safety requirements for walking and working surfaces common to Oil and Gas work sites.

EO 12.1: Identify trip and fall hazard conditions.

EO 12.2: Identify walking-working surfaces and those surfaces that are not working surfaces

EO 12.3: Discuss the requirements for the identification and protection of floor and wall openings.

EO 12.4: Discuss the requirements for the inspection and control of debris on stairs and work surfaces

EO 12.5: Discuss the requirements for the inspection and proper application and use of portable ladders.

EO 12.6: Discuss the requirements for the installation, inspection and use of fixed ladders and work platforms.

Key Student “Take-Aways”

- Identify fall risks associated with level surfaces and surfaces at height
- Identify common hazardous conditions (slips, trips)
- Understand the importance of housekeeping

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Module 13: Fall Protective Systems



TO 13: Students will be able to anticipate, recognize, evaluate and control the hazards of working on elevated work surfaces and develop an understanding of the application and use of fall protective systems common to Oil and Gas work sites.

EO 13.1: Identify fall hazard conditions.

EO 13.2: Discuss the selection, inspection and application of fall protective equipment.

EO 13.3: Discuss the installation, inspection, maintenance and use of personal fall arrest systems associated with fixed ladders and elevated work surfaces.

EO 13.4: Discuss the requirement for rescue-trained personnel availability when working at height .

Key Student “Take-Aways”

- Identify common hazardous conditions (falls)
- Understand basic fall protection and prevention techniques
- Understand principles of using PFAS
- Understand need for rescue planning
- Understand the need for specific training in the use and application of PFAS

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Module 14: Confined Space

TO 14: Students will be able to demonstrate a level of knowledge of confined space hazards and classification common to Oil and Gas work sites.

EO 14.1: Identify elements of permit required and non-permit required confined spaces and associated hazards

EO 14.2: Discuss what is entry and alternatives to confined space entry.

EO 14.3: Discuss the elements and requirement of a confined permit procedure and forms

EO 14.4: Discuss the importance of atmosphere testing and monitoring of a confined space..

EO 14.5: Describe the additional training requirements for permit required confined space entrant, attendant, superintendent and rescuer

Key Student “Take-Aways”

- Recognize confined spaces and the difference between permit required and non-PRCS.
- Identify common spaces in O&G industry;
- Understand and identify alternatives to PRCS entry.
- Awareness of extensive requirements for PRCS entry.
- Additional training necessary for PRCS entry operations.

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Module 15: Excavation, Trenching and Protective Systems

TO 15: Students will be able to anticipate, recognize, evaluate and control the hazards and identify protective measures associated with excavation and trenching common to Oil and Gas work sites.

EO15.1: Identify and discuss the hazards of excavations and trenching (cave-ins, lack of protective systems) associated with Oil and Gas work sites.

EO15.2: Discuss the requirements for excavations and trenches including:

- the requirements for qualified excavation and trenching equipment operators
- the requirements for "line locate" procedures and application prior to breaking the grade
- the requirements and responsibilities for a "Competent Person" being on-site during excavation and trenching activities
- soil conditions requiring sloping, benching, and/or shoring of excavations
- the protective systems (sloping, shielding, shoring and barricades) requirements for trenching and excavation

EO15.3: Discuss the requirements and application of an emergency management / rescue plan associated with an excavation.

EO 15.4: Discuss the requirements for additional training for people engaged in excavation and trenching activities.



Key Student "Take-Aways"

- Understand cave in/engulfment hazards
- Understand importance of locates and consequences of cutting lines
- Understand ways to prevent cave in/engulfment
- Understand role of competent person and requirements for being a C.P.

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Module 16: Inspection, Testing and Preventative Maintenance

TO 16: Students will be able to demonstrate a basic level of knowledge of the importance of inspection, testing and preventative maintenance of equipment common to Oil and Gas work sites.

EO 16.1: Identify and discuss the hazards associated the defective or poorly maintained equipment.

EO 16.2: Discuss the inspection requirements for powered equipment and power transmission systems(belts, sheaves, cables, etc)

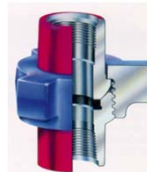
EO 16.3: Discuss the requirement for safe bolting methods on equipment

EO 16.4: Discuss the requirement for the inspection and replacement and calibration of malfunctioning or broken sensing, recording and indicating devices (gauges)

EO 16.5: Discuss the requirements for the placement, inspection and replacement of Pressure Safety Valves (PSV).

EO 16.6: Discuss the requirement for the inspection and maintenance of pressure containing and pressure generating devices and equipment

EO 16.7: Discuss other available recognized training resources which address mechanical integrity.



Key Student "Take-Aways"

- Recognize and understand the hazards associated with failed or improperly installed equipment.
- Recognize and understand the importance of working gauges on process equipment used on site
- Recognize and understand the importance of properly matching valves, flanges and gaskets for the service
- Recognize and understand consequences of improperly installed or maintained equipment
- Understand the importance of daily equipment inspections

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Module 17: Motor Vehicle Operation

TO 17: Students will gain a level of knowledge in the safe operation of vehicles used for the transport of personnel and materials common to Oil and Gas work sites.

EO 17.1: Identify and discuss the hazards associated with the movement and placement of mobile equipment and motor vehicle operation.

EO 17.2: Discuss the vehicle safety inspection requirements.

EO 17.3: Describe the safe and proper operation of vehicles used for the transport of personnel and materials .

EO 17.4: Discuss the types and impact of driver distractions during the operation of vehicles used for the transport of personnel and materials.

EO 17.5: Discuss the requirements for the proper loading and securing of loads on vehicles.

EO 17.6: Discuss the requirements for the movement of specialized equipment (Rigs).

Key Student "Take-Aways"

- Recognize hazards of motor vehicle operation
- Understand pre-use inspection techniques
- Understand proper load securement



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Module 18: So Now What

Key Student "Take-Aways"

- Review of Hazards presented
- Reminder of their Responsibilities for themselves and their team mates
- Reminder of their Employers Responsibilities
- Reminder of their Stop Work (Take a breath and Think about the task) authority
- Job Hazard Analysis practicum.
- Commitment letter to self naming three or more safety practices they will implement on the job.
- Student Assessment (Test)
- Course Assessment and Feedback from Students



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