HUMAN RESOURCES CONSULTANTS
INVESTIGATIONS

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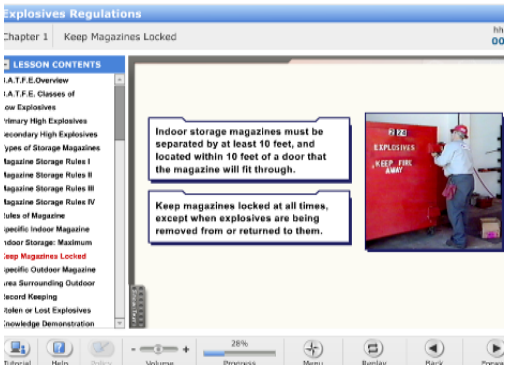
Energy: Explosive Regulation Guidelines

This industry-specific course provides an introduction to the rules, regulations, and safe handling procedures governing explosives used in oil and gas exploration.

Objectives:

- Identify the responsibilities of the Bureau of Alcohol, Tobacco, Firearms and Explosives (B.A.T.F.E.) toward regulating explosives.
- Identify the responsibilities of the Department of Transportation relating to explosives.
- Describe B.A.T.F.E. classifications of explosives.
- Describe DOT classifications of explosives.
- Describe the difference between primary and secondary explosives.
- Describe the types of storage magazines.
- Explain the rules for proper magazine storage.
- Discuss indoor magazine regulations.
- Discuss outdoor magazine regulations.
- Explain the proper procedure for keeping magazine records.
- Explain what to do if explosives are lost or stolen.
- Understand how to properly dispose of explosives and manage waste.
- Recognize responsibilities involved in the shipping and transport of explosives.

Audience: Employees involved with explosives



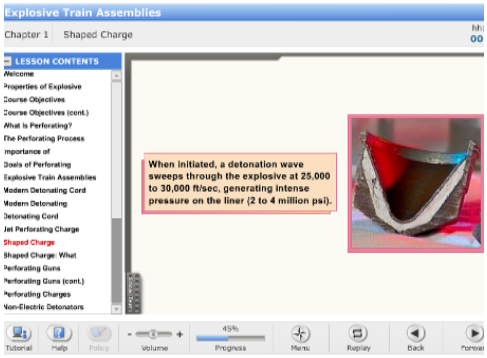
Primary Regulations: OSHA 29 CFR 1910.109 - Explosives and blasting agents.

Related Regulations: None

Duration: 75-90 minutes

Energy: Explosive Train Assembly Procedures

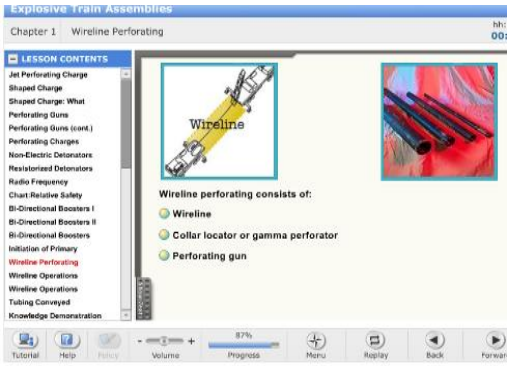
This industry-specific course offers an overview of perforating, the most important components of explosive train assemblies, and their safe storage and use in the oil and energy exploration field.



Objectives:

- Discuss the physical properties of explosive train assemblies.
- Describe the components of explosive train assemblies.
- Describe non-electric detonators and when they are used.
- Describe resistorized detonators and how they are used.
- Describe Rig Environmental Detonators and how they are used.
- Describe bi-directional boosters and how they are used.
- Describe the physical properties of detonating cords.
- Explain how detonating cords work.
- Describe a jet perforating charge.
- Name and describe the four components of a jet perforating charge.
- Recognize the most dangerous components of explosive train assemblies.
- Explain how to use explosive train assemblies safely.

Audience: Employees involved in perforating operations on wellsite jobs.



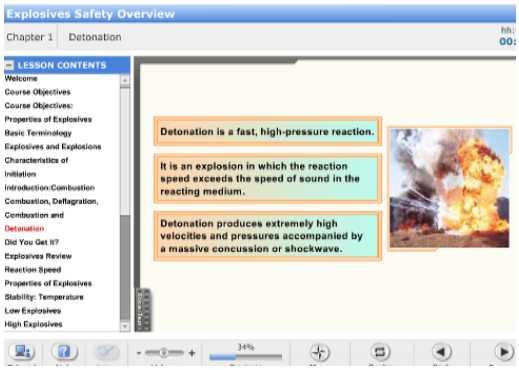
Primary Regulations: OSHA 29 CFR 1910.109 - Explosives and blasting agents.

Related Regulations: None

Duration: 15-30 minutes

Energy: Explosive Use Procedures

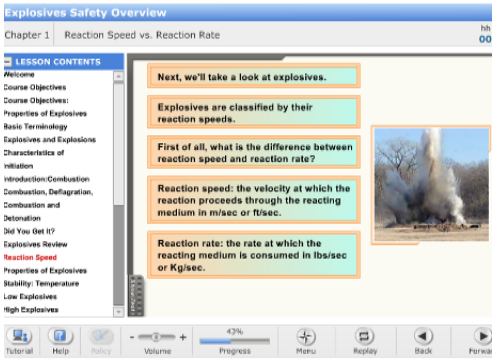
Explosives are used in a number of oil and gas wellsite operations. Because of the serious consequences that can occur if explosives are handled improperly, this industry-specific aids all persons handling or transporting explosives in becoming qualified through appropriate training to perform their work.



Objectives:

- Discuss the physical properties of commonly-used explosives.
- Demonstrate an elementary understanding of basic explosive terminology.
- Describe the different types of explosives.
- Describe the different types of explosions.
- Discuss the ways in which explosions are initiated.
- Describe the difference between reaction speed and reaction rate.
- Define high and low explosives.
- Explain stability and the role of time and temperature in reference to explosives.
- Describe different kinds of sensitivity and provide examples.

Audience: Employees involved with explosives



Primary Regulations: OSHA 29 CFR 1910.109 - Explosives and blasting agents.

Related Regulations: None

Duration: 15-30 minutes

Energy: Hydrogen Sulfide Control Procedures

This course provides information that will help minimize serious health risks to persons who may be exposed to hydrogen sulfide on the job. Workers in wastewater treatment plants, oilfields, mines, and other confined spaces, or those who perform excavation in marshy areas, are among those who may be vulnerable to hydrogen sulfide exposure. Workers will gain the knowledge necessary to identify the presence and dangers of hydrogen sulfide and the steps to take to avoid personal illness or injury.

Objectives:

- Identify situations where you may encounter hydrogen sulfide.
- Identify the hazards of exposure to hydrogen sulfide, including its effects on the body.
- Recognize the tools and techniques for detecting hydrogen sulfide.
- Recognize how to evaluate the hazard of hydrogen sulfide through measuring concentrations and comparing with exposure limits.
- Identify engineering and administrative controls.
- Identify the Personal Protective Equipment (PPE) that will prevent illness and injury.
- Describe steps to take in emergencies related to hydrogen sulfide.

Audience: All workers who may contact hydrogen sulfide in the course of their work.

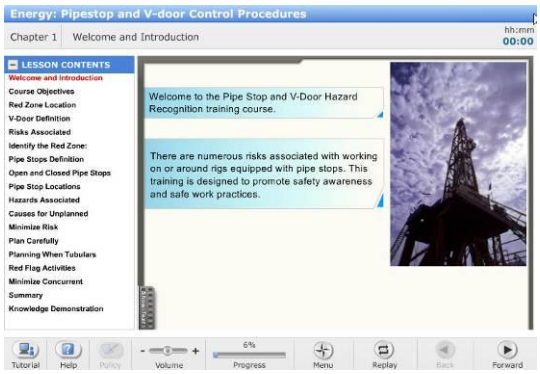
Primary Regulations: OSHA 29 CFR 1910.1200 - Hazard Communication. OSHA 29 CFR 1910.146 - Permit-Required Confined Spaces. OSHA 29 CFR 1910.134 - Respiratory Protection. OSHA 29 CFR 1910.38 - Employee Emergency Plans and Fire Prevention Plans. OSHA 29 CFR 1910.151 – Medical Services and First Aid.

Related Regulations: None

Duration: 60-90 minutes

Energy: Pipestop and V-door Control Procedures

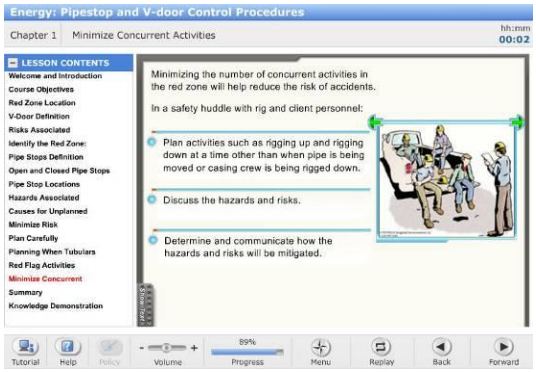
There are numerous risks associated with working on or around rigs equipped with pipe stops. This industry-specific course is designed to promote safety awareness and safe work practices on wellsites.



Objectives:

- Identify the red zone of a drilling rig.
- Name the three areas that make up the red zone.
- Describe the risks encountered in the red zone.
- Describe the work practices necessary to prevent incidents or injuries from occurring in the red zone.

Audience: Personnel working around drilling rigs



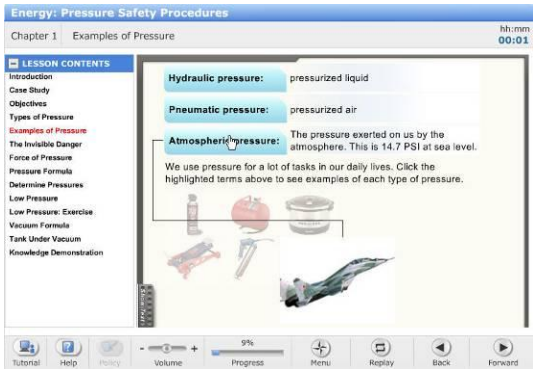
Primary Regulations: OSHA 29 CFR 1903.1, The General Duty Clause

Related Regulations: None

Duration: 15-30 minutes

Energy: Pressure Safety Procedures

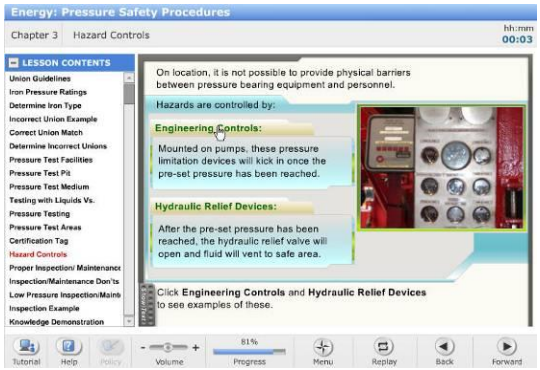
Employees of companies in the oil and energy fields perform a vast range of operations on a daily basis that involve working with hydraulic, pneumatic, and atmospheric pressure. This industry-specific course presents an overview of pressure safety.



Objectives:

- Understand the principles of high pressure, low pressure, and vacuum.
- Identify safe practices for line rigging and breaking.
- Identify safe practices for pumping at the well site.
- Determine the correct makeup of a pressure safe Hammer Union.
- Explain the importance of proper installation and maintenance.
- Recognize areas of pressure hazards and ways to minimize dangers.

Audience: All employees in oil and energy exploration fields involved in tasks using pressure



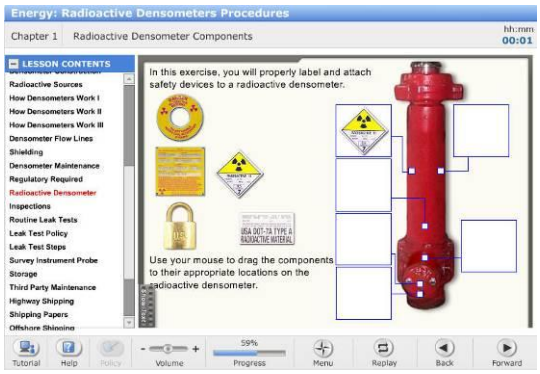
Primary Regulations: OSHA 29 CFR 1903.1, The General Duty Clause

Related Regulations: None

Duration: 45-60 minutes

Energy: Radioactive Densometers Procedures

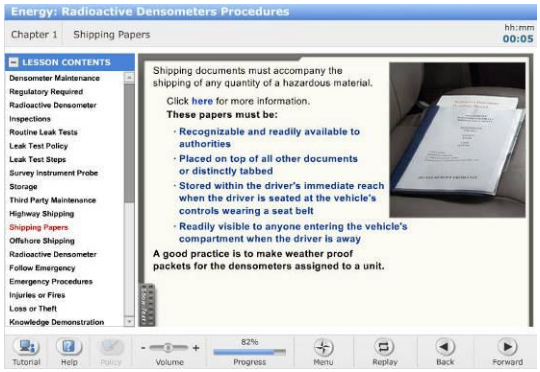
Radioactive densometers are a vital tool in the oil exploration field. This industry-specific course presents the responsibilities of the end user of a radioactive densometer.



Objectives:

- Understand the construction and operation of the radioactive densometer.
- Know how to perform routine maintenance by recognizing and correcting transportation labels
- and warning and safety devices.
- Discuss transportation requirements regarding radioactive densometers, including labels, installation, and paperwork.
- Know the steps to perform a leak test.
- Understand the general concepts relating to a radiological emergency incident.

Audience: End users of radioactive densometers



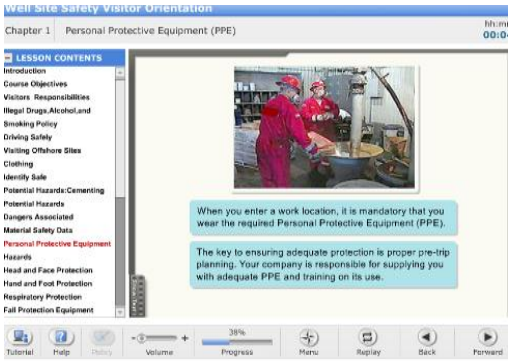
Primary Regulations: OSHA 29 CFR Part 1910.97 - Nonionizing radiation

Related Regulations: None

Duration: 45-60 minutes

Energy: Wellsite Visitor Guidelines

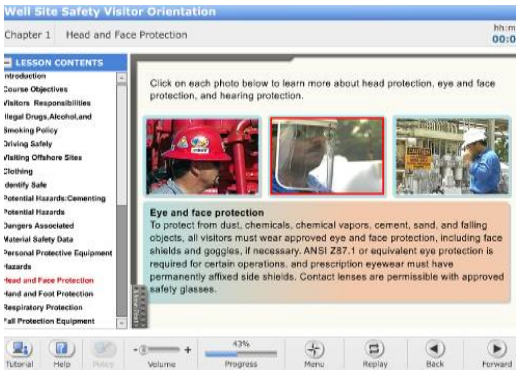
This industry-specific course summarizes minimum health and safety expectations for visitors to oil and gas wellsites.



Objectives:

- Identify responsible behaviors critical to ensuring a safe work environment.
- Recognize common hazards found at oil and gas worksites and specific wellsite operations.
- Specify the purpose of various personal protective equipment (PPE) required when visiting a wellsite.
- Describe safety precautions and emergency response procedures for common hazardous conditions.
- Specify the purpose of various safety programs such as lockout/tagout and confined spaces.

Audience: All visitors to oil and gas worksites



Primary Regulations: OSHA 29 CFR 1903.1, The General Duty Clause

Related Regulations: None

Duration: 15-30 minutes

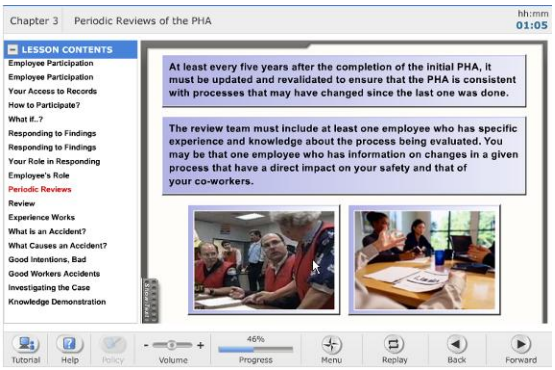
Energy: Worksite Radiation Control Procedures

In this industry-specific course, students will learn how to work safely with radioactive materials. This course also addresses specific hazards in the workplace, and where to go to find information on changes and updates in regulatory policy.

Objectives:

- Define radiation and radioactive materials.
- Identify operations which pose a potential for exposure to radiation or radioactive materials.
- Understand the effects of radiation exposure.
- Discuss safety procedures for controlling radiation exposure.
- Understand the general concepts relating to a radiation emergency.

Audience: All employees working with radiation



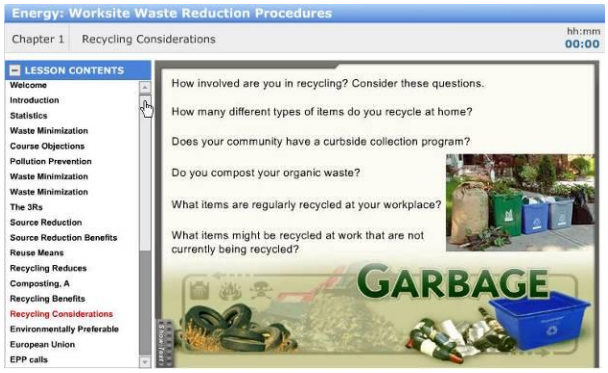
Primary Regulations: OSHA 29 CFR Part 1910.97 - Nonionizing radiation

Related Regulations: None

Duration: 15-30 minutes

Energy: Worksite Waste Reduction Procedures

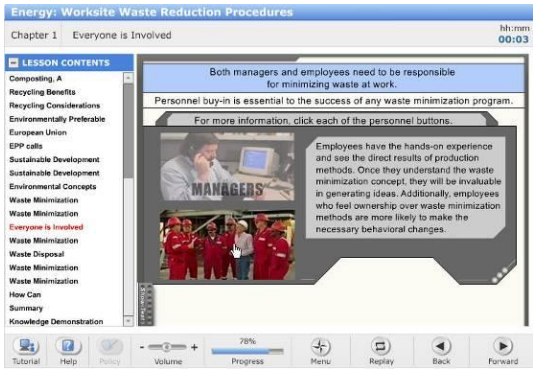
Rather than managing waste once it's produced, the waste minimization philosophy and practices focus on reducing or eliminating waste before it is generated. This industry-specific course presents an overview of waste minimization in the oil and energy fields.



Objectives:

- Define waste minimization.
- Understand general waste minimization concepts, including source reduction, recycling, environmentally preferable purchasing, and sustainable development.
- Recognize your role in waste minimization.
- Recognize the financial advantages of waste minimization.
- Explain why waste minimization can offer safety advantages.

Audience: All employees in oil and energy exploration fields



Primary Regulations: US Pollution Prevention Act (1990)

Related Regulations: None

Duration: 15-30 minutes