



Rig Pass / Basin United Course Outline



Prerequisites: This course shall have no formal pre-requisite.

Course Length: 8 hours – Course length shall vary depending on the number of delegates. Total course time includes breaks.

Class Size: The maximum number of delegates that may be trained and tested per instructor shall be thirty-five (35) in the classroom session.

Course Objective

- Delegates will gain an awareness of the hazards encountered when working on oil & gas installations and the systems in place to control and mitigate those hazards.
- Identify main hazards, their risk, control, and consequences.
- Potential environmental impact of oil & gas operations.
- Identify key safety regulations and explain the concept of these regulations.
- Principles of managing safety on oil & gas installations.
- Alcohol and substance abuse policy.
- PPE requirements on oil & gas installations.
- Procedures for reporting incidents, accidents and near misses.

Course Design

- Power Point© / Lecture / Audio Video / Visual Aids / Hands-on Activities

Successful Course Completion

- Requires a minimum score of 80% or better.
- Delegates will have no more than sixty (60) minutes to complete the exam.
- Grades shall be calculated by dividing the number of questions answered correctly by the total number of exam questions.

Course Content Summary

- Classroom
- IADC RigPass Orientation

Breaks: 10 minutes (approximately every hour)

Lunch: 1 hour

Course Outline

Module 1: Core Curriculum

1.1 General Safety

- Regulatory Requirements
 - United States Coast Guard

- Bureau of Safety and Environmental Enforcement
- SEMS II
 - **Video**
 - Management of Change
 - Responsibility
- Principles
 - **Discussion:** Lead Through Example
- Alcohol and Drug Policies
 - Government Regulations
 - **Discussion:** Laws and Drug Testing
 - **Discussion:** Reasonable Suspicion
 - **Discussion:** Common drugs and their symptoms
 - Searches and Seizures
 - Reporting of Medications
- **Discussion:** Firearms, Weapons and Other Prohibited Items
- Personal Conduct
 - **Discussion:**
 - Smoking Restrictions
 - Personal Hygiene
 - Workplace Violence
 - Zero Tolerance & Responsibility to report
- General Worksite Safety
 - Behavior-based Safety
 - Overview
 - Roles and Responsibilities
 - Intervention / Stop Work
 - Overview
 - **Discussion:** SWA Process and Management Support
 - Stop Work Situations
 - Job Safety Analysis
 - Elements
 - Pre-written JSAs
 - **Activity:** Write a JSA as a class
 - Pre-job Planning Meeting
 - Simultaneous Operations and Communication
 - **Discussion:** Differing Operator/Contactor Rules
- Hand & Power Tool Safety
 - General Safety Rules
 - Taking a Hand Tool Out of Service
 - Use the Proper Tool for the Task
 - Proper Handling
 - Properly Using Power Tools
 - **Activity:** Hands-on Tool Inspection
- Electrical Safety
 - Hazards of Electricity
 - Effects of Electrical Shock

- **Discussion:** Training & Qualifications
- Housekeeping
 - Importance of Housekeeping
 - **Discussion:** Common housekeeping duties
 - Proper Storage of Waste
 - Walkways/Aisles/Trip Hazards
 - Spills
 - Signs and Barricades
 - Cones and other barriers
 - Signs on Location – colors and symbols
- Walking Working Surfaces
 - Overview
 - Guarding Floor and Wall Openings and Holes
 - Guardrail System
 - Floor Hole, floor opening, wall opening, Ladder-way floor opening, stairway floor opening
 - Stairways/Handrails
 - Scaffold safety
 - Fixed ladders
 - Portable ladders
 - General Safety
- Workplace Incidents
 - Types of Incidents: accidents, first aid, near miss
 - **Discussion:** Causes of Incidents
 - Reporting Incidents
 - **Discussion:** Reporting and Anti-retaliation
 - Vehicle Accidents
 - **Discussion:** Incident investigation Purpose and responsibilities
- Land Transportation
 - Overview
 - **Discussion:** Certificates/Endorsements
 - Vehicle Condition
 - Inspection & Load Security
 - **Activity:** Review pre-trip inspection form and inspect a vehicle tire
 - Driving Practices
 - Hazards of Driving
 - Prohibited actions
 - Fatigue Management
 - Best Driving Practices
 - **Discussion:** coordinates, airbags, cellphones
- Human Factors (IOGP)
 - Principles of Human Behavior
 - **Discussion:** Common Biases
- Line of Fire
 - **Discussion:** Line of Fire
 - **Video:** Line of Fire

- Controls

1.2 Personal Protection Equipment

- Mitigate, Control, Protect
- Determining PPE: Hazard Assessment, Orientation, Uncertainty
- Types, Care & Use, and Inspection
 - Specialty Protective Clothing
 - Head Protection
 - Eye and Face Protection
 - Hearing Protection
 - Foot Protection
 - Hand Protection
 - Causes of hand injury
 - Respiratory Protection
 - **Discussion:** APR vs SAR
 - Fit Tests
 - Fall Protection
 - **Discussion:** Fall Prevention vs Fall Arrest
 - Personal Fall Arrest System
 - Fall Protection height requirements
 - **Demo:** Don a body harness
- Limitations of PPE

1.3 Hazard Communication

- Chemical Hazards and Inventory
- Container Labeling
- Globally Harmonized System
 - Benefits
 - GHS labels
 - Pictograms
- Safety Data Sheets
 - **Activity:** Review SDS
- Hazardous Materials Transport
 - DOT Requirements
 - Marking & Labeling Packages
 - Placarding
- Hazardous Materials Release
 - **Discussion:** Dangers of responding
 - Responsibilities
 - Emergency Response Book
 - **Video:** ERG 2020
 - **Activity:** Emergency Response Guidebook Review

1.4 Occupational Health

- **Discussion:** Workplace Health Risks
- Employee Responsibilities
- Exposure to Health Hazards
- Health Hazards at the Worksite
 - Hydrogen Sulfide

- **Discussion:** Emergency Response
- **Video:** Personal Story H2S

- Crystalline Silica
- Diesel mist

1.5 Specialized Work Procedures

- **Video:** Reflective Learning Activity Onshore Work Scenario
- Hazardous Energy
 - Definitions
 - **Discussion:** Types of hazardous energy
 - De-energized equipment
 - **Discussion:** Verification
- Lockout/Tagout
 - Overview
 - **Discussion:** Forms of Energy Isolation
 - Roles and Responsibilities
 - Training
 - Energy Control Procedures
 - Use of locks and tags
 - **Demo:** Group Lockout
- Work Permits
 - Overview
 - Types
 - Responsibilities
- Work Authorization
 - Types
 - Safety Controls
 - **Activity:** Case Study – Importance of Safety Controls
- Confined Space
 - **Discussion:** Examples
 - Permit Required Confined Space
 - **Discussion:** Breaking the plane
 - Hazards
 - Roles and Responsibilities
- Hot Work
 - Overview
 - **Discussion:** Sources of Ignition
 - Safeguards
- Working at Heights
 - Overview & Equipment
 - Level of Training
 - Prevention of Dropped Objects
 - **Discussion**
 - Guard Rails
 - **Discussion:** Permanent vs. Temporary
 - Rescue Plan
 - Personnel Hoisting

- **Activity:** Working at Heights Scenario: Equipment Calculation

1.6 Fire Safety

- Fire Tetrahedron
 - **Discussion:** significance of Fire Tetrahedron
- General Prevention
- Ignition Sources
- 5 Classes of Fire
- Types of Fire Extinguishers
- **Demo:** Extinguishing an Incipient Fire
- Responsibilities
- Emergency Evacuation

1.7 Materials Handling

- Mechanical Equipment
 - Communications
 - **Discussion:** Effective Communication
 - Hazards & Barriers
 - Electrical hazards
- **Activity:** Safe Lift Simulator
- Manual Materials Handling
 - **Discussion:** Importance of Proper Lifting
 - Manual Lifting Injuries
 - **Discussion:** Alternatives to Lifting
 - **Demo:** Proper Lifting Technique
 - Have a Plan

1.8 Health & First Aid

- General Information
 - **Discussion:** Common Workplace Illnesses/Injuries
 - Bloodborne Pathogen Exposure
 - Protection from Bloodborne Pathogens
 - Decontamination
 - **Demo:** Inspect, don, Remove Medical Gloves
- Health & Adverse Weather
 - **Discussion: Weather Experiences**
 - Possible Conditions
 - Thermal stress
 - Reducing Heat Stress

1.9 Rig & Platform Environment

- Arrival Procedures
 - **Discussion:** Safety Orientation
- Home Away from Home
- Site Specific Information
 - Station Bill
- Active Shooter
 - **Discussion:** How to Protect Yourself
- High Pressure

- Alarms
 - Response to Alarms
- 1.10 Wellsite Environmental Protection**
- Waste Management
 - **Discussion:** Waste Minimization
- Leaks, Spills, Releases
 - Reporting & Responding
 - Containment
- 2.0 Onshore Supplement**
- **The Oil and Gas Value Chain**
 - **Discussion:** Your Role in the Value Chain
- Excavation – Trenching & Shoring
 - Regulatory Requirements
 - Worker Responsibilities
 - **Discussion:** Safe Practices for Excavations
 - Training
 - Excavation/Trenching Hazards
 - Protective Systems
 - PPE
 - Hazardous Atmospheres
 - Access, Egress, & Rescue
 - **Activity:** Identify the Hazards
- Short Services Employees
- Pits and Ponds
 - Types
 - **Discussion:** Hazards of Pits and Ponds
 - Safety Precautions
- 3.0 Offshore Supplement**
- Transportation
 - Arrival at Shore Base
 - Helicopter Transportation
 - **Discussion:** Danger Zones
 - Boat Transportation
 - **Activity:** Review Station Bill
 - Swing Ropes
 - Personnel Basket
 - Arriving Offshore
- Offshore Expectations
 - Living Quarters, Galley, Medical Facilities, Recreational areas
 - **Discussion:** Banned Items
 - PPE
 - **Discussion:** Effects of Weather
- Water Safety
 - Prepare for Emergencies



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- Escape Routes
- Types of Personal Flotation Devices
 - **Demo:** Don Type I PFD
- Survival Crafts
 - Life Raft
 - Life Floats
 - TEMPSC
 - Marine Resources
- **Discussion:** Man-Overboard Response
- Marine Debris
 - Overview
 - Responsibilities
 - **Video**
- Conclusion
 - **Activity:** Commitment to Safety

Training Center Provided Material

- Course Materials

Delegate Requirements

- None

Reference Material / Documents

BSEE 30 CFR 250.109 – 250.113	OSHA 29 CFR 1910.151	OSHA 29 CFR 1926.150
BSEE 30 CFR 250.490	OSHA 29 CFR 1910.157	OSHA 29 CFR 1926.200
OSHA 29 CFR 1904.35	OSHA 29 CFR 1910.242	OSHA 29 CFR 1926.500-503
OSHA 29 CFR 1910.22	OSHA 29 CFR 1910.333	OSHA 29 CFR 1926.1101
OSHA 29 CFR 1910.95	OSHA 29 CFR 1910.1001	OSHA 29 CFR 1926.12
OSHA 29 CFR 1910.101	OSHA 29 CFR 1910.1020	DOT 49 CFR 171-179
OSHA 29 CFR 1910.120	OSHA 29 CFR 1910.1030	Environmental Protection Agency (EPA)
OSHA 29 CFR 1910.132-133	OSHA 29 CFR 1910.1060	National Fire Protection Association Codes and Standards
OSHA 29 CFR 1910.134	OSHA 29 CFR 1910.1200	Offshore Operators Committee
OSHA 29 CFR 1910.138	OSHA 29 CFR 1910 Subpart E	
OSHA 29 CFR 1910.145	OSHA 29 CFR 1910 Subpart Z	
OSHA 29 CFR 1910.146	OSHA 29 CFR 1926.50	
OSHA 29 CFR 1910.150	OSHA 29 CFR 1926.101	