



HSE109

Risk and Hazard on Rig Operation

Course Introduction:

This course provides the basics of offshore drilling operations. Explains the environment, logistics, equipment, procedures, safety requirements, emergency response, and regulations unique to petroleum exploration, drilling, and production activities offshore. Includes an overview of petroleum economics and investment decision-making specific to the offshore industry.

Course Objectives:

Upon successful completion of this course, the delegates will be able to:

- Acquire with basic knowledge of Rig components & operations
- Identify the hazards associated drilling equipments & operations
- Understand the risks of rig different operations and required corresponding control measures
- Conduct drilling operations in safe professional ways as per international standards
- Understand and implement the HSE regulations & requirements for Drilling & working at Rigs.
- Improve the participant's knowledge & skill onto Rigs inspections procedures
- Increase Health & Safety Knowledge and Skill according to international standards
- Reduce losses and costs to organization that could arise from accidents, ill-health, injuries and/or the rig down times

Who Should Attend?

This course is intended for all drilling rigs crews & members, HSE department (health & safety professionals, site engineers, site supervisors, safety officers), non-professional engineers at drilling rigs (logistics eng., electric eng., mechanical eng.), and others (radio room operators, crane & forklift operators, and welder & workshop operators).

Course Outline:

Day 1:

Pre-Test

A - Introduction

- A-1 Rig Components
- A-2 Rig Operator's & Responsibilities
- A-3 Inspection and Preventive Maintenance

B – General Safety

- B-1 Personal Protective Equipment
- B-2 Rig Camps: Kitchens and Accommodations
- B-3 Handling and Storage of Compressed Gas Cylinders
- B-4 Welding and Cutting
- B-5 Use of Potentially Hazardous Materials
- B-6 Electrical Wire & Equipments
- B-7 Static Electricity
- B-8 "Big bag" handling systems
- B-9 Cellular telephone use on drilling rigs

Day 2:

C - Rig Equipments and Procedures

- C-1 Derricks and Masts
- C-2 Crown Blocks
- C-3 Travelling Blocks
- C-4 Derrick Exits, Ladders, Stairways, Floors, and Platforms
- C-5 Pipe Handling
- C-6 Draw works Controls
- C-7 Rotary Table
- C-8 Hoisting, Riding Hoisting Equipment and Rotary Operations
- C-9 Slips
- C-10 Elevators
- C-11 Manual Tongs
- C-12 Power Tongs
- C-13 Stabbing Platforms and Boards
- C-14 Safety Belts and Harnesses
- C-15 Blowout Preventors
- C-16 Rig Mud Pumps
- C-17 Accumulator
- C-18 Mud Tanks

D- Pre-spud Safety Inspection

- D-1 Pre-Spud Safety Inspection Checklist

Day 3:

E – Drilling Operations

- E-1 Casing
- E-2 Cementing

- E-3 Logging
- E-4 Perforation

Day 4:

F- Special Operations

- F-1 Working With Service Companies
- F-2 Coil Tubing
- F-3 Lifting Operations
- F-4 Crane Operations

Day 5:

G- Rig Emergency Preparedness

- G-1 Emergency Preparedness
- G-2 Rig Emergency Plan
- G-3 Emergency Drills

Post Test

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Fees:

To be advised as per the course location. This rate includes participant's manual, and-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session

