



Oilfields Processes and Equipment

Course Introduction:

This course aims to provide participants with a comprehensive overview of the key processes involved in oilfield operations as well as the equipment used at each stage.

Throughout the course, participants will explore the fundamentals of drilling techniques, production methods, and the technologies associated with oilfield equipment. They will learn about the design, operation, and maintenance of critical components such as separators, pumps, compressors, and pipelines. By examining industry standards, best practices, and case studies, attendees will gain valuable insights into the efficient management of oilfield processes and equipment, ultimately enhancing production efficiency and operational safety in their respective roles.

Course Objectives:

By the end of the program, participants will be able to:

- Understand the fundamental processes involved in oilfield operations.
- Learn about the various types of equipment used in drilling, production, and processing.
- Explore the principles of operation and maintenance for key oilfield equipment.
- Analyze the impact of equipment performance on overall production efficiency.
- Familiarize participants with industry standards and best practices in oilfield processes and equipment management.

المركز العالمي للتدريب والتطوير
International Centre For Training & Development

Who Should Attend?

This course is intended for Process engineers and production personnel in the oil and gas industry, Operations and maintenance staff involved in oilfield equipment, Safety and compliance officers and Project managers and planners in oilfield operations.

Course Outline:

Day 1: Introduction to Oilfield Processes

- Overview of the oil and gas industry and its significance
- Key stages of oilfield operations: exploration, drilling, production, and processing
- Regulatory requirements and environmental considerations in oilfield processes

Day 2: Drilling Techniques and Equipment

- Overview of drilling methods: rotary, directional, and horizontal drilling
- Key drilling equipment: drill bits, rigs, and casing
- Drilling fluid properties and their role in the drilling process

Day 3: Production Methods and Technologies

- Overview of primary, secondary, and enhanced oil recovery techniques
- Production equipment: pumps, separators, and compressors
- Techniques for managing reservoir performance and production optimization

Day 4: Processing Equipment and Technologies

- Introduction to oil and gas processing: separation, stabilization, and treatment
- Overview of key processing equipment: heat exchangers, distillation columns, and filters
- Safety and environmental considerations in processing operations

Day 5: Industry Standards and Best Practices

- Review of relevant industry standards for oilfield processes and equipment
- Best practices for equipment selection, operation, and maintenance
- Future trends and challenges in oilfield processes and equipment management

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

Course Fees:

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

Course Certificate:

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

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