



MOE112

Offshore Facilities and Construction Engineering

Course Introduction:

This course is designed for key players and high net worth professionals, both technical and non-technical that are beginning or transferring from other specialized areas to be directly involved in planning, construction and operation of offshore oil and gas facility systems. This course showcases the basic activities and challenges of offshore oil and gas exploration drilling and production systems.

Participants will develop a basic understanding of offshore exploration and production system operations to accelerate learning for optimum application and productivity. The emerging technologies used for development of new offshore oil and gas fields are presented in this course.

Practical demonstrations with field support are provided to develop participants and give hands on experience needed for real life scenarios. This course includes the use of computers provided at additional cost for each participant.

Course Objectives:

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

- ✓ Acquit with offshore oil and gas terminology
- ✓ Develop awareness for early history of offshore oil and gas system
- ✓ Identify its evolution to the present time
- ✓ Determine how companies explore offshore oil and gas reserves
- ✓ Describe how wells are drilled, completed and produced in offshore systems
- ✓ Identify various types of offshore platforms, such as fixed and floating platforms
- ✓ Recognize key design concepts, fabrication and installation issues associated with offshore structures and facilities
- ✓ Identify subsea and topside facilities used to produce oil and gas
- ✓ Recognize and implement methods for offshore production transportation

Who Should Attend?

This course intended for Planning, Construction and Facility Engineers, Operators, Managers, Technical and Non-technical Personnel, Field Development Personnel and others who need a better understanding of offshore systems or responsible for providing offshore oil and gas system solutions.

Course Outline:

Day 1:

- Setting the stage such as, history, science, engineering approach and recent innovations
- Deepwater exploration
- Drilling and well completion

Day 2:

- Field development options and systems.
- Fixed/rigid offshore structures

Day 3:

- Floating production systems offloading (FPSO).
- Drill ship, ship shapes, submersible and semi-submersibles.
- Subsea systems and intervention.

Day 4:

- Production facilities and Topsides.
 - Pipeline construction and installation.
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International Centre For Training & Development

Day 5:

- Risers and flowlines.
- Technology versus wave.
- Exercises and case histories around the world.

Course Certificate:

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

Course Fees:

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

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 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	Coffee/Tea/Snacks
13:30 - 15:00	Last Session