



# M0022: Offshore Facilities and Construction Engineering

## Training Description:

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.

## Training Objectives:

**By the end of the training, participants 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

## Training Designed for:

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

## Training Program:

### DAY ONE:

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

### DAY TWO:

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

### DAY THREE:

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

### DAY FOUR:

- ❖ Production facilities and Topsides.
- ❖ Pipeline construction and installation

### DAY FIVE:

- ❖ Risers and flowlines
- ❖ Technology versus wave
- ❖ Exercises and case histories around the world
- ❖ Course Conclusion
- ❖ POST-ASSESSMENT and EVALUATION

## Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

## Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

## Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

## Training Fees:

**TBA as per the course location** - This rate includes participant’s manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01<sup>st</sup> of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

## Training Timings:

### Daily Timings:

|               |                               |
|---------------|-------------------------------|
| 07:45 - 08:00 | Morning Coffee / Tea          |
| 08:00 - 10:00 | First Session                 |
| 10:00 - 10:20 | Recess (Coffee/Tea/Snacks)    |
| 10:20 - 12:20 | Second Session                |
| 12:20 - 13:00 | Recess (Prayer Break & Lunch) |
| 13:00 - 14:00 | Last Session                  |

### For training registrations or in-house enquiries, please contact:

**Aisha Relativo** - Training & Career Development Manager

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