

# SINGLE BUOY MOORING & CRUDE OIL TERMINAL OPERATIONS

## COURSE OBJECTIVES

On successful completion of the course, the participants will acquire knowledge of working principles, safe work practices and inspection/survey of all major systems and equipment relating to operation of:

- Single Buoy Mooring (SBM) and
- Crude Oil Terminal

## ABOUT THE COURSE

With the increased capacities of crude tankers matching the import of the larger parcel sizes to meet the rising demand for downstream products and also to take advantage of economies of scale, SBM has emerged as the preferred option – since it does not necessitate deep water port development. SBM and large crude storage capacity ashore coupled with a terminal or pumping station exporting to refinery are a commonly deployed, commercially viable combination.

This course aims to enhance the knowledge and understanding of operators, supervisors and engineers engaged in operation, inspection and maintenance of SBM and crude storage and export terminals and the associated systems and equipment.

## PARTICIPANTS

Technicians or diploma or graduate mechanical engineers with: i) a minimum experience of three years in crude oil export terminal operations and ii) proficiency in English language.

## DURATION

Four days

## KEY TOPICS

- Safe operation, inspection & maintenance of heat exchangers and
- Centrifugal pumps
- Pipelines & valves
- Crude oil storage & safe handling
- Control systems, SCADA, PLC
- Oil export operations; pigging process
- SBM & Mooring Arrangement: Key components. Inspection & Survey requirements
- Hazards and risks associated with crude oil handling and safe work practices
- Fire safety, gas detection
- Introduction to HAZOP, QRA