
Overview

This unit is concerned with ensuring that a safe and efficient start up of the Marine Systems, as defined by your organisation, takes place from the FPSO/FSU Control Room for the following Marine Operations:

- 1 cargo handling
- 2 ballast handling
- 3 bilges
- 4 offload station
- 5 bunker station
- 6 controlled space entry
- 7 restricted space entry
- 8 enclosed space entry

This unit deals with the following:

- 1 Start up marine operations

During this work you must take account of the relevant worksite operational requirements, procedures and safe working practices AS THEY APPLY TO YOU.

Previous Version:

Unit MOT2 National Occupational Standards in FPSO/FSU – April 2005

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Performance criteria

- You must be able to:*
- P1 validate field marine operations and safety systems and confirm navigational parameters
 - P2 obtain clearance for cargo tank loading
 - P3 commence initial cargo tank loading
 - P4 verify cargo tank loading status
 - P5 initiate full cargo tank loading operations
 - P6 monitor operations for potential abnormal situations and deal with them as appropriate
 - P7 maintain communications with control room, process and other relevant personnel as appropriate
 - P8 ensure and confirm steady state condition
 - P9 complete, clearly and accurately, all relevant log details

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Knowledge and understanding

You need to know and understand:

- K1 how to validate field marine operations and safety systems (e.g. ESDs, Fire and Gas, CCTV, communications) as appropriate
- K2 how to confirm navigational parameters (e.g. radar, GPS, UTM's, ARPA, charts, light/sound signals) as appropriate
- K3 the procedure for obtaining clearance for cargo loading
- K4 how to carry out initial cargo loading procedures
- K5 how to verify cargo tank loading status
- K6 how full cargo tank loading operations are initiated
- K7 the procedures necessary to effectively monitor operations for potentially abnormal situations
- K8 how to safely and effectively deal with abnormal situations
- K9 how to ensure and confirm steady state conditions
- K10 how to clearly and accurately complete the relevant log details
- K11 how to select, use and care for PPE (to include sight/hearing protection, gloves, footwear, hard hats, respirators)
- K12 the implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- K13 how to interpret operational requirements (e.g. relevant policies, procedures, instructions, codes of practice, standards and schedules)
- K14 the safety measures that need to be put in place and all the safety practices/procedures that need to be adhered to
- K15 how to locate and identify all control room equipment using P + ID's as appropriate
- K16 how to carry out effective shift handovers and maintain continuity
- K17 how to carry out positive reporting of instructional actions, tasks, safety measures and checks, ensuring they are clear, accurate and complete
- K18 the layout of appropriate working areas (e.g. control room, control stations)
- K19 the structure/function/operation of: process flows, ballast system, cargo system, crude oil washing, inert gas system, cargo heating system, FPSO/FSU mooring system, bunkering systems (e.g. polymers, potable water, lube oil, diesel), instrument and plant air, vessel cooling water, diesel system and hydraulic system using P + ID's and Process Flow Diagrams as appropriate
- K20 the location of process high pressures, high temperatures and the relevant safety measures
- K21 the procedures necessary to carry out effective trouble shooting
- K22 the location, function and operation of ESD systems using P & ID's as appropriate
- K23 how to establish/maintain effective fixed/mobile communications with relevant internal/external personnel (e.g. supervisor, other operators,

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supply vessels)

K24 the permit to work system

K25 the emergency procedures relevant to the marine systems

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Relevant occupations Engineering and manufacturing technologies; Engineering; Process, Plant and Machine Operatives; Plant and Machine Operatives

Suite Floating Production & Storage Offload (FPSO)

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