

COGFPSO24

Contribute to the planning and preparation for FPSO/FSU cargo handling and ballast control operations



Overview

This unit is concerned with ensuring that a safe and efficient contribution is made by the FPSO/FSU Deck Operators to the planning and preparation for the following Cargo Handling and Ballast Control system operations:

- 1 processing (to include temperature control)
- 2 offloading/metering
- 3 storage
- 4 isolated
- 5 offloading station
- 6 shuttle connection

This unit deals with the following:

- 1 Plan the operation and prepare to start up cargo handling and ballast 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 MDO24 National Occupational Standards in FPSO/FSU – April 2005

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Performance criteria

You must be able to:

- P1 contribute to FPSO/FSU/Field operational pre-planning
- P2 update operations to take into account impact of weather conditions
- P3 establish and maintain communications with relevant personnel
- P4 confirm vessel, process, ballast, tank status and tank priorities and report
- P5 complete pre-operational safety checks
- P6 verify cargo system, ballast system and inert gas system status

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Knowledge and understanding

You need to know and understand:

- K1 the procedures necessary to contribute to FPSO/FSU/Field operational pre-planning (to include cargo quantities, vessel particulars, operational parameters, shutdown parameters, cargo and ballast handling plans, communication and back up systems)
- K2 how to update operations taking impact of weather conditions into account (e.g. heavy weather, adverse weather, normal weather) as appropriate
- K3 the procedures for confirming and reporting vessel, process, ballast, tank status and tank priorities
- K4 the pre-operational safety checks as appropriate
- K5 the procedures for verifying and confirming the status of cargo system (to include processing with temperature control, isolated tanks, ballast system and inert gas system status)
- K6 how to select, use and care for PPE (to include sight/hearing, protection, gloves, footwear, hard hats, respirators)
- K7 the implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- K8 how to interpret operational requirements (e.g. relevant policies, procedures, instructions, codes of practice, standards, schedules) to include station bill and emergency procedures
- K9 how to locate and identify associated process equipment using P + ID's and Process Flow Diagrams as appropriate
- K10 the layout/function/operation of: process flows, ballast system, cargo system, crude oil washing, inert gas system, crude off-loading and metering, FPSO/FSU mooring system, instrument and plant air, vessel cooling water, diesel system, hydraulic system, fire and gas system, using P + ID's and Process Flow Diagrams as appropriate
- K11 how to manually initiate the deluge systems, the various fire suppression systems and fixed and portable fire fighting systems
- K12 the geography of the installation
- K13 the safety measures that need to be put in place and all the safety practices/procedures which must be adhered to
- K14 how to effectively establish and maintain effective fixed/mobile communications between the relevant internal/external personnel
- K15 how to carry out positive reporting of designated actions, assigned tasks, safety measures and checks ensuring reports are clear, accurate and complete
- K16 how to carry out effective handovers between shifts and maintain continuity

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- K17 the procedures necessary to carry out effective trouble shooting
- K18 the location, function and operation of ESD systems using P & ID's as appropriate
- K19 the location of process high pressures, high temperatures and the relevant safety measures
- K20 the permit to work system
the emergency procedures relevant to the cargo handling system
- K21 the emergency procedures relevant to the ballast control system

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