COGFPSO21
Contribute to monitoring and operation of marine and storage systems

Overview

This unit is concerned with ensuring that a safe and efficient contribution is made by the FPSO/FSU Deck Operator to the monitoring and operation of the Marine and Storage systems, as defined by your organisation, for the following Marine Operations:

1 cargo handling
2 ballast handling
3 processing
4 offloading
5 storage operations
6 controlled space entry

This unit deals with the following:

1 Monitor and operate marine and storage systems

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 MDO21 National Occupational Standards in FPSO/FSU – April 2005

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Performance criteria

You must be able to:

P1 monitor the steady state production condition and report as necessary to the relevant personnel
P2 obtain permission for all access to controlled spaces
P3 report and deal with abnormal situations
P4 keep up-to-date log book
P5 carry out routine duties, checks and procedures and report

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Knowledge and understanding

You need to know and understand:

K1 the steady state production condition parameters expected for marine and storage systems (to include temperatures, levels and specifications)
K2 how to effectively monitor the steady state production conditions
K3 how to maintain effective internal communications with relevant personnel (e.g. supervisor, control room operators, process operators)
K4 the procedures for obtaining permission for all access to controlled spaces (to include restricted space (e.g. machinery space), enclosed space (e.g. Ballast Tank))
K5 the process for maintaining up-to-date log book
K6 how to effectively carry out routine duties, checks and procedures (to include cargo handling, ballast handling, crude oil washing, hot water washing, pressures, temperatures, levels, polymers, potable water, lube oil, fuel oil, diesel)
K7 the requirements for sampling
K8 how to select, use and care for PPE (to include sight/hearing, protection, gloves, footwear, hard hats, respirators)
K9 the implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
K10 how to interpret operational requirements (e.g. relevant policies, procedures, instructions, codes of practice, standards and schedules)
K11 how to locate and identify associated process equipment using P + ID's and Process Flow Diagrams as appropriate
K12 the structure/function/operation of: process flows, ballast system, cargo system, crude oil washing, inert gas system, cargo heating system, cargo metering, cargo offloading system, mooring system, bunkering systems – polymers potable water, lube oil diesel, instrument and plant air, vessel cooling water, diesel system, hydraulic system using P + IDs and Process Flow Diagrams as appropriate
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 maintain communications between all operators patrolling the plant and the Control Room
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
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
K21	the emergency procedures relevant to the marine and storage systems

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