

## COGFPSO23

# Contribute to the shutdown of the marine and storage systems



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### Overview

This unit is concerned with the FPSO/FSU Deck Operators contribution to the safe and efficient shutdown 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 Shutdown 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 MDO23 National Occupational Standards in FPSO/FSU – April 2005

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### Performance criteria

*You must be able to:*

- P1 carry out shutdown requirements as directed
- P2 confirm controlled space entry routines
- P3 maintain communications with all relevant personnel
- P4 monitor and control the shutdown to ensure satisfactory progress
- P5 report abnormal situations and respond as appropriate
- P6 log all relevant data

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### Knowledge and understanding

*You need to know and understand:*

- K1 the controlling parameters relevant to shutting down a process
- K2 the procedures for shutting down the marine and storage systems
- K3 the controlled space entry routines for restricted space (e.g. machinery space) and enclosed space (e.g. Ballast Tank)
- K4 how to maintain effective communications with relevant personnel (e.g. supervisor, control room operators, process operators) as appropriate
- K5 how to monitor and control the shutdown to ensure satisfactory progress
- K6 how to effectively report and respond to abnormal situations
- K7 how to contribute to and report all relevant data
- 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 + ID's 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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**Developed by** Cogent

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**Version number** 1

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**Date approved** June 2009

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**Indicative review date** June 2011

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**Validity** Current

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**Status** Original

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**Originating organisation** Cogent

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**Original URN** FPSO23

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

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**Suite** Floating Production & Storage Offload (FPSO)

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**Key words** safe, efficient, shut down, marine, storage, systems, cargo, handling