

Shutting down process operations in downstream operations

Overview

This standard is about your competence in shutting down the process operations.

This standard deals with the following:

- 1 Establish shutdown conditions in process systems and equipment
- 2 Shut down the process to the specified state

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

This Standard is suitable for those working in the downstream fuel environment.

Previous Version:

Adapted from Unit 18 of Refinery Field Operations NOS – version April 2005

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Performance criteria

- You must be able to:*
- P1 obtain confirmation for shutdown to proceed
 - P2 correctly identify equipment and check status with field operator
 - P3 ensure that all relevant resources are available to support shutdown
 - P4 inform all relevant people of possible impact on them due to shutdown
 - P5 complete the shut down in accordance with specified procedures and timescales
 - P6 identify and correct abnormalities
 - P7 complete all relevant documentation
 - P8 inform appropriate personnel when shutdown is completed to specified state
 - P9 work safely in accordance with operational requirements

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Knowledge and understanding

- You need to know and understand:*
- K1 how to select, use and care for PPE
 - K2 the implications of statutory and organisational requirements
 - K3 how to interpret operational requirements
 - K4 the operating principles of relevant equipment
 - K5 the principles of the process
 - K6 the operating principles of trip systems, logic sequences, control systems
 - K7 plant layout and plant operating manuals
 - K8 equipment shutdown procedures
 - K9 how to work within the Permit to Work system
 - K10 the potential problems and appropriate action to be taken in preparing for shutdown including cooling down, warming up and correct time period
 - K11 the consequences of shutting down the equipment in the wrong sequence
 - K12 the effect on the remainder of the plant where the item of equipment is taken out of service
 - K13 the effect on plant in adjacent areas
 - K14 the situations when shutdown should not proceed
 - K15 the potential problems and appropriate action to be taken if item of equipment is not shut down correctly
 - K16 the consequences if item of equipment is not isolated correctly
 - K17 the importance of time taken to shut down and isolate item of equipment to specified state
 - K18 the relevant documentation

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