

## COGPOH20 - SQA Unit Code F22J 04

### Prepare and shut down remote integrated process systems



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#### Overview

This unit is about preparing for and carrying out the shut down of remote integrated process systems.

This unit deals with the following:

- 1 Prepare for integrated process system shut down
- 2 Shut down the integrated process system

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 PTC3.3 Processing Operations Hydrocarbons NOS – November 2006

**Performance  
criteria**

*You must be able to:*

- P1 effectively obtain operational instructions
- P2 accurately determine shut down time and make appropriate preparations for shut down
- P3 effectively brief relevant personnel on shut down procedures
- P4 accurately identify real and potential hazards and protect against them
- P5 ensure all information supplied and recorded is accurate, complete and legible
- P6 work safely in accordance with operational requirements and associated **Safe Systems of Work**
- P7 accurately input and set shut down settings, process variables and services
- P8 safely shut down the process system
- P9 effectively protect against shut down hazards
- P10 effectively monitor shut down and correct faults and problems as appropriate
- P11 isolate plant and utilities from operating sources

### Knowledge and understanding

*You need to know and understand:*

- K1 how to use “Safe Systems of Work” processes to identify hazards and mitigate or reduce risks to as low as reasonable practicable (ALARP)
- K2 how to select, use and care for Personal Protective Equipment (PPE) to include sight/hearing protection, coveralls, gloves, footwear, hard hats, respirators
- K3 the implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- K4 how to interpret operational requirements (e.g. policies, procedures, instructions, codes of practice, standards, schedules)
- K5 equipment internals and their function
- K6 functioning of process control including instrumentation and logic
- K7 methods of limitations of depressurisation/pressurisation, blowdown, temperature, relief systems, drains, flares, vents
- K8 sources of information and interpretation of drawings and manuals regarding the plant
- K9 all relevant sources of energy to prime movers
- K10 properties of purging media and its effects on systems
- K11 composition and properties of feedstock (to include toxicity, flammability, specific gravity and temperature)
- K12 effects of emergency shut down control systems
- K13 effects of fire and gas control system
- K14 isolation devices and methods of installation
- K15 how to access and interpret (oral and written) shut down instructions
- K16 how to access and interpret operational instructions (to include sequence of shut down, recommended rate of shut down)
- K17 the real and potential shut down hazards (to include standby equipment operational, vents, noise, heat)
- K18 how to input and set shut down settings, process variables and services
- K19 how to isolate plant and utilities from operating sources

## Additional Information

### Scope/range

Candidates must prove competence across the following items (or “systems”) as appropriate to the workplace and Evidence Specification:

- 1 wells
- 2 oil storage/discharge process
- 3 gas process
- 4 oil/gas process and export
- 5 water injection
- 6 metering
- 7 utilities

In addition, the following terms in bold relate directly to those shown in **bold** in the Performance Statements.

- 1 **Safe Systems of Work** must include processes or systems that incorporate Hazard Identification, Risk Assessment, Permit to Work and any other associated systems.

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

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**Suite** Processing Operations Hydrocarbons

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