

COGPOH18 - SQA Unit Code AY1C 04

Prepare integrated process systems for remote control operation



Overview

This unit is about preparing integrated process systems for remote control operation.

This unit deals with the following:

- 1 Prepare to carry out a production process
- 2 Prepare equipment for the production process

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 PTC3.1 Processing Operations Hydrocarbons NOS – November 2006

**Performance
criteria**

- You must be able to:*
- P1 effectively obtain operational instruction
 - P2 effectively organise work of self and others where appropriate
 - P3 effectively brief relevant personnel
 - P4 accurately identify difficulties with relevant parts of the Safe Systems of Work system and take appropriate action
 - P5 ensure that all information supplied and recorded is accurate, complete and legible
 - P6 effectively maintain your work area to be clean and hazard free
 - P7 work safely in accordance with operational requirements and associated **Safe Systems of Work**
 - P8 correctly prepare plant and utilities
 - P9 accurately identify faults and take appropriate action
 - P10 integrate the plant and utilities and facilitate optimum processing

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 work area hazards (to include spillages, uncontrolled emissions, H2S and other toxic substances, extreme weather conditions)
- K6 the appropriate actions to take in the event of a work area hazard
- K7 plant layout and its connection with other systems
- K8 how to access and interpret drawings and manuals regarding the plant
- K9 the effects of changes in ambient conditions on plant operation
- K10 who to deal with (to include co-workers, supervisors, managers, workers of other disciplines)
- K11 the effects of equipment internals upon the integrated process system
- K12 the functions of remote process control including instrumentation and logic
- K13 the normal operating parameters and associated tolerances
- K14 the composition and properties of feedstock (to include toxicity, flammability, specific gravity and temperature)
- K15 the reactions taking place, conditions and effects of changes (to include chemical and physical properties)
- K16 the principles of hydrocarbon hydrate formation – prevention and dispersion
- K17 the effects of loss of any system upon the integrated process system and its reinstatement

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.

COGPOH18 - SQA Unit Code AY1C 04

Prepare integrated process systems for remote control operation

Developed by Cogent

Version number 1

Date approved June 2009

Indicative review date June 2011

Validity Current

Status Original

Originating organisation Cogent

Original URN POH18

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

Suite Processing Operations Hydrocarbons

Key words prepare, integrated process systems, remote control, operation, production process