NOS4
PT1.1: Start Up and Shut Down a Process System

This unit is about starting up and shutting down a process system.

PT1.1 Prepare and Start Up a Process System

PT1.2 Prepare and Shut Down a 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.

Unit Scope

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

- Wells
- Oil Storage/Discharge Process
- Gas Process
- Oil/Gas Process and Export
- Water Injection
- Metering
- Utilities

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

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

Unit-wide Knowledge

- How to use ‘Safe Systems of Work’ processes to identify hazards and mitigate or reduce risks to as low as reasonably practicable (ALARP)
- How to select, use and care for PPE (to include sight/hearing protection, coveralls, coveralls, gloves, footwear, hard hats, respirators)
- The implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- How to interpret operational requirements (e.g. Policies, procedures, instructions, codes of practice, standards, schedules)
- How and when to deal with other people (to include co-workers, supervisors, managers, workers of other disciplines)
Element PT1.1.1  Prepare and Start Up a Process System

Performance Statements

In achieving this unit you must have:

1. effectively obtained operational instruction
2. accurately identified and reported any difficulties with the instructions to the appropriate personnel
3. correctly prepared a process system for start-up
4. correctly started up a process system
5. ensured that all information supplied and recorded is accurate, complete and legible
6. effectively maintained your work area to be clean and hazard free
7. worked safely in accordance with operational instructions and associated **Safe Systems of Work**

Knowledge and Understanding

You must know and understand:

1. how to identify, minimise and control real and potential hazards (to include spillages, uncontrolled emissions, consideration of H₂S and other toxic substances, extreme weather conditions)
2. the actions to take in the event of a work area hazard

Element PT1.1.2  Prepare and Shut Down a Process System

Performance Statements

In achieving this unit you must have:

1. effectively obtained operational instruction
2. accurately identified and reported any difficulties with the instructions to the appropriate personnel
3. correctly prepared a process system for shut-down
4. correctly shut down a process system
5. ensured that all information supplied and recorded is accurate, complete and legible
6. effectively maintained your work area to be clean and hazard free
7. worked safely in accordance with operational instructions and associated **Safe Systems of Work**

Knowledge and Understanding

You must know and understand:

1. how to identify, minimise and control real and potential shutdown hazards (to include standby equipment operational, vents, noise, heat, cold)
2. what the possible preparations are (to include informing relevant personnel, continued running of the remainder of the plant, valve and equipment settings)