

EUSNCO309 - SQA Unit Code HG38 04

Monitor the installation process for Network Construction Operations



Overview

This unit is designed for the candidate to demonstrate the effectiveness of the installation and construction process by monitoring resource use, installation and construction methods and procedures, and outputs achieved, against relevant specifications and ensuring compliance with relevant regulations and guidelines. The candidate will need to identify any variations from agreed plans and schedules and/or any problems with the installation and construction process and ensure that corrective action is taken promptly.

The candidate will need knowledge of installation and construction principles and processes and both general and discipline-specific engineering principles and processes. The candidate will need to know how to interpret specifications and be familiar with health, safety, environmental and other legislative and regulatory frameworks. The candidate will also need sound knowledge of organisational procedures and systems and problem-solving methods, as well as a good grasp of the principles and systems behind effective quality assurance and resource management.

This unit will apply to Network Construction Operations at Level 3 and is intended for Construction Supervisors.

Performance criteria

You must be able to:

- P1 monitor the installation and construction methods and procedures at suitable opportunities
- P2 monitor the supply and use of resources to ensure that they are effectively used
- P3 confirm that the equipment, materials and products used during the installation and construction methods and procedures comply with approved procedures and practices
- P4 confirm that suitable installation and construction methods and procedures have been used
- P5 identify any variations from agreed plans and schedules
- P6 ensure that any problems with the installation and construction methods and procedures are identified and solved promptly
- P7 ensure that the outputs of the installation and construction methods and procedures comply with approved procedures and practices
- P8 ensure that the installation and construction methods and procedures complies with all relevant approved procedures and practices

Knowledge and understanding

You need to know and understand:

- K1 when should monitoring occur, and how should it be undertaken
- K2 what are the installation and construction methods and procedures that should be used
- K3 what are the potential variations from plans and schedules that might occur during installation and construction
- K4 what types of problem could occur
- K5 why it is important to solve a problem quickly
- K6 how to check the outputs of the installation and construction process
- K7 how to obtain information on resources
- K8 what resources are necessary
- K9 what resources are available
- K10 what are the regulations and guidelines that are relevant
- K11 how to obtain information on regulations and guidelines

Additional Information

Scope/range related to performance criteria

1. installation and construction methods and procedures: including work by self and others, involving site, equipment, materials and other resources
2. assembly of fittings, pipework and ancillaries positioning and jointing including connections in accordance with industry standards
3. resources: plant, equipment, materials, labour, consumables
4. equipment, materials and products: Selection of vehicles, tools, ancillary equipment and machines, valves and fittings, pipes and consumables, health, safety and environmental protection equipment, hazardous and non hazardous materials
5. approved procedures and practices: Health, Safety and Environmental related to the individual and others, organisational, regulatory, statutory, emergency, operational, contingency plans, relevant company policies, relevant client policies (internal or external) approved materials and equipment and procedures, and risk assessments

EUSNCO309 - SQA Unit Code HG38 04

Monitor the installation process for Network Construction Operations

Developed by Energy and Utility Skills

Version number 1

Date approved 2010

Indicative review date 2015

Validity Current

Status Original

Originating organisation Energy and Utility Skills

Original URN NCO309

Relevant occupations Engineering and manufacturing technologies; Engineering

Suite Network Construction Operations

Key words Material, products, regulatory frameworks