

EUSGNEM10

Specify methods and procedures to install and construct utility network assets



Overview

This national occupational standard defines the competence involved in working with organisational systems and procedures in order to develop and specify the operational methods and procedures which will be used when network assets are installed and constructed. It requires an assessment of the different installation and construction methods and technologies which are available and used within the industry, and matching them against the design requirements. Contract information and client requirements need to be taken into account, alongside appropriate third party considerations, such as local authorities, access, and landowners. Environmental factors need to be considered. All regulations, guidelines and procedures must be taken into account and acted on. Information is to be produced and stored so it is available to be used by those who will plan and schedule the actual work activities.

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Performance criteria

You must be able to:

Evaluate installation and construction operational methods

- P1 obtain accurate details of the work to be carried out
- P2 assess whether conventional methods – which use developed technologies – should be used or whether new technologies should be trialled
- P3 use the assessment and select the most effective methods to achieve the work to be carried out

You must be able to:

Determine and specify operational methods and procedures

- P4 calculate and specify the material, equipment, people, finance, and time resources required
- P5 calculate and specify access equipment, transport, site support facilities, and delivery arrangements required
- P6 calculate and specify the activities required to achieve the engineering requirements for the installation and construction of network assets
- P7 incorporate contractual issues, costing, resource availability, timescales and product specifications in the planning process
- P8 calculate and specify the control parameters for the equipment to be used
- P9 specify clearly the methods and procedures to be used by conventional methods and using developed technologies
- P10 specify clearly the methods and procedures to be used when trialling new technologies
- P11 ensure the methods and procedures comply with industry regulations and guidelines
- P12 use information management systems to record the methods and procedures which will apply
- P13 ensure agencies and other organizations which need to know are kept informed and receive information accurately

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Knowledge and understanding

You need to know and understand:

General

- K1 network engineering principles and processes
- K2 installation principles and processes
- K3 health, safety and environmental issues
- K4 legislative and regulatory frameworks
- K5 organisational procedures and systems
- K6 resource management processes and methods

You need to know and understand:

Installation and construction of network assets

- K7 the procedures for obtaining details of the network assets to be installed and constructed
- K8 the conventional methods and developed technologies that could be used for different types of engineering process
- K9 the new technologies that could be trialled for different types of engineering process
- K10 the use of different types of installation and construction methods
- K11 the activities which are required for different methods
- K12 the procedures for obtaining information on material, equipment, people, finance, time, access equipment, transport, site support facilities, and delivery arrangements
- K13 how to determine what material, equipment, people, finance, time, access equipment, transport, site support facilities, and delivery arrangements are necessary and are available
- K14 how to incorporate client requirements and third party considerations
- K15 how to identify who will be using the specified procedures
- K16 how to determine how procedures should be specified for different groups of people
- K17 how to determine what should be included in the procedures, and to what level of detail
- K18 the legislation, Codes of Practice and industry procedures which need to be complied with, and the procedures for obtaining information on regulations and guidelines

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Behaviours

You work in a manner which:

1. is positive and creative to setbacks
2. develops an atmosphere of professionalism and mutual support

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Suite Gas Networks Engineering Management

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