

EUSGNEM15

Specify methods and procedures to operate and maintain utility network assets



Overview

This national occupational standard defines the competence when using organisational systems and procedures to develop and specify the operational methods and procedures to carry out operations and maintenance on networks. It requires an assessment of the different methods and technologies which are available and used within the industry, and matching them against the 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.

EUSGNEM15

Specify methods and procedures to operate and maintain utility network assets

Performance criteria

You must be able to:

Evaluate operations and maintenance 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, delivery arrangements required
- P6 calculate and specify the activities required to achieve the engineering requirements
- 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 that the methods and procedures comply with all relevant regulations and guidelines
- P12 record the methods and procedures in the appropriate information systems

EUSGNEM15

Specify methods and procedures to operate and maintain utility network assets

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 factors

You need to know and understand:

Operations and maintenance

- K7 the procedures for obtaining details of the network 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 operations and maintenance methods
- K11 the activities which are required for different operations and maintenance methods
- K12 how to carry out scheduled, preventative and long term operational and maintenance requirements which include using statutory inspection and routine maintenance schedules, planned monitoring and condition monitoring
- K13 how to carry out unscheduled, corrective, and medium term maintenance to resolve defects, unplanned outages, and breakdowns
- K14 how to incorporate fault analysis, fault prevention, and performance improvement in unscheduled activities
- K15 how to deal with emergency and short term operational and maintenance requirements which affect safety, security of supply, and the environment
- K16 the procedures for obtaining information on regulations and guidelines and those which need to be applied
- K17 the procedures for obtaining information on material, equipment, people, finance, time, access equipment, transport, site support facilities, delivery arrangements
- K18 how to determine what material, equipment, people, finance, time, access equipment, transport, site support facilities, delivery arrangements are necessary and available
- K19 how to incorporate client requirements and third party considerations
- K20 how to identify who will be using the specified procedures
- K21 how to determine how procedures should be specified for different

EUSGNEM15

Specify methods and procedures to operate and maintain utility network assets

groups of people

K22 how to determine what should be included in the procedures, and to what level of detail

EUSGNEM15

Specify methods and procedures to operate and maintain utility network assets

Behaviours

You work in a manner which:

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

EUSGNEM15

Specify methods and procedures to operate and maintain utility network assets

Developed by Energy and Utility Skills

Version number 1

Date approved May 2009

Indicative review date May 2014

Validity Current

Status Original

Originating organisation Energy and Utility Skills

Original URN GNEM15

Relevant occupations Engineering; Building and construction; Functional Managers; Draughtspersons and Building Inspectors; Design Associate Professionals; Construction Trades; Building Trades

Suite Gas Networks Engineering Management

Key words Evaluate; network engineering; installation principles; resource management
