

EUSGNEM16

Schedule operations and maintenance activities on utility network assets



Overview

This national occupational standard defines the competence within project planning and developing schedules for the operations and maintenance activities on the network assets. It requires examining the operational methods and procedures to be used and sequencing the activities in the most efficient and effective way. It means satisfying the contractual requirements by ensuring the schedules are planned around costs, quality specifications, environmental factors, resources, and timescales. It involves using quantitative and financial analysis, planning and evaluation techniques and then producing information which is available to be used by those carrying out the operations and maintenance work.

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Performance criteria

You must be able to:

Plan and schedule network activities

- P1 confirm the activities and resources that are required to carry out work on the network
- P2 use the most suitable software to carry out the planning activities
- P3 use quantitative and financial planning techniques to determine the most suitable sequence of activities
- P4 schedule the time and resources available for undertaking the activities

You must be able to:

Produce network activity schedules

- P5 produce schedules that meet all contractual, timescale, cost, resource, health and safety, environmental, and quality requirements
- P6 incorporate new schedules into the work process with minimal disruption
- P7 produce contingency plans to overcome potential difficulties
- P8 produce schedules that comply with all applicable regulations and guidelines
- P9 specify clearly the schedules and record them in the designated information systems

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Knowledge and understanding

You need to know and understand:

General

- K1 network engineering principles and processes
- K2 health, safety, and environmental issues
- K3 installation principles and processes
- K4 legislative and regulatory frameworks which apply
- K5 organisational procedures and systems which apply
- K6 project planning and management methods
- K7 resource management factors

You need to know and understand:

Scheduling operations and maintenance

- K8 the activities required for different methods and procedures
- K9 the relationship of different activities to each other
- K10 the time and resources required for different types of activity
- K11 the contractual, health and safety, environmental, quality, and cost factors to be taken into account when scheduling the use of time and resources
- K12 how to carry out scheduled, preventative and long term operational and maintenance which includes 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 use of method statements and procedures in the planning process
- K17 the types of disruption that could be caused by new schedules
- K18 the types of difficulty that could occur
- K19 the items to be included in contingency plans
- K20 the procedures for obtaining information on regulations and guidelines and those which need to be applied
- K21 the different types of software which can support planning activities
- K22 the importance of using information systems, how to use them, and how to record data in them

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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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