EUSGNEM09 Determine the requirements for installation and construction of utility network assets



Overview

This national occupational standard defines the competence for interpreting the asset design requirements - to the installation and construction process - and specifying the quality criteria to be applied. It requires project planning and management skills which include using planning and quantitative evaluation techniques, as well as resource and financial planning. 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.

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Performance criteria

Vou must be able to:				
You must be able to:	Interpret the network design			
	P1 obtain accurate details of the network assets and the work to be carried			
	out			
	P2 review and interpret the design of the network to assess its			
	characteristics			
	P3 assess the personnel, plant, and materials resource requirements that will be needed for the work			
	P4 determine the timescales required and include capacity for contingencies that could arise			
	P5 assess the requirements, and impact, of access equipment, transport, and site support facilities			
	P6 evaluate contractual issues likely to have an impact on the network asset installation and construction			
	P7 take into account client, commissioning, and handover factors			
	P8 clarify with colleagues, the client, and third parties, any aspects of work			
	that are unclear			
You must be able to:	Specify the engineering methods, quality criteria and action plans			
	P9 specify the quality criteria to be applied to the work procedures and processes			
	P10 develop contingency plans for handling delays, routing problems, interference with third party utilities, and environmental factors			
	P11 confirm changes to the work which may be required to achieve the requirements			
	P12 ensure that the requirements comply with industry regulations and guidelines			
	P13 record the requirements in the information systems			

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Knowledge and understanding

You need to know and understand:	Gen K1 K2 K3 K4 K5 K6	eral network engineering principles and processes installation principles and processes health, safety and environmental issues legislative and regulatory frameworks organisational procedures and systems resource management processes and methods
You need to know and	Netv	vork asset installation and construction
understand:	K7	the procedures for obtaining details of the network assets to be installed and constructed
	K8	the design details relating to route, special crossings, other utilities, and general environmental factors
	K9	the characteristics of the network assets to be installed and constructed which are particularly critical
	K10	how to incorporate client requirements and third party considerations
	K11	how to identify which aspects of the network requirements could be unclear, and the procedures to used to clarify them
	K12	the type of quality criteria to be specified
	K13	the types of change to the network that might occur
	K14	how to identify who can approve any changes to the network assets installation and its construction
	K15	the industry regulations and guidelines that apply and the procedures for obtaining information on them
	K16	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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