

Overview

This national occupational standard defines the competence required to interpret technical specifications and install new engineering Components and Assets in Gas Network Construction.

This standard is for those responsible for operations during gas network construction activities. These activities will usually include the leadership and direction of the members of a team and decision making regarding the approach to take when undertaking the work.

This standard consists of four elements:

1. interpret technical information for installing Components and Assets to the system
2. select Components and Assets and resources for installation to the system
3. install Components and Assets to the system
4. use and communicate data and information

Performance criteria

You must be able to:

Interpret technical information for installing Components and Assets to the system

1. use drawings, records, work documents, manuals, technical specifications and authorisations to provide work details for connection
2. interpret dimensions, lengths, widths, and quantities from the technical information
3. interpret the positions of utilities plant, services, buildings, kerbs and boundaries from the technical information
4. make any necessary corrections to drawings, records and work documents

Select Components and Assets and resources for installation to the system

5. select the Components and Assets and resources in compliance with the work and quality specifications
6. check Components and Assets and installation equipment for operability and ensure free from damage
7. follow procedures to replace defective Components and Assets, non-match Components and Assets, and sub-standard Components and Assets
8. ensure sufficient labour, plant, equipment, materials and consumables are available for the work activity

Install Components and Assets to the system

9. interpret design specification to determine the method of installation to be used
10. carry out a site-specific risk assessment and review in accordance with company policy
11. apply control measures identified in risk assessments
12. select, check condition, use and store the appropriate personal protective equipment (PPE)
13. check and confirm the work environment conforms with instructions and specifications
14. select, prepare and operate installation equipment in accordance with the specification and manufacturer's instructions
15. position Components and Assets in accordance with the specification
16. assemble Components and Assets to industry standards using mechanical and/or fusion welding techniques

17. take adequate precautions to prevent damage to Components and Assets, tools and equipment during installation
18. protect installed Components and Assets in accordance with specification and codes of practice
19. maintain proximity distances from other utilities apparatus in accordance with approved codes of practice
20. ensure installed assets are supported and anchored in accordance with codes of practice
21. connect to existing PE (Polyethylene) or Metallic system using specific connections, in accordance with codes of practice
22. check quality of installation and confirm compliance with specified standard
23. maintain the security and safety of the system where work is not complete or not to schedule
24. ensure work practices conform to safe working procedures throughout the work activity
25. carry out all work to approved procedures and practices and in compliance with statutory and regulatory requirements

Use and communicate data and information

26. choose and provide information to people requiring technical information in a way that suits the person, type of information and how it will be used
27. check and confirm understanding of the technical information provided from the recipients
28. report, to a designated person, any inaccuracies in the technical information sources used
29. complete and store work documentation accurately and in line with approved policies and procedures
30. report to the designated person damage or defects to tools, equipment or materials
31. report work which is incomplete and not to schedule to the designated person
32. refer problems and conditions outside the responsibility of the job role to a designated person using approved procedures

Knowledge and understanding

*You need to
know and
understand:*

General

1. the main responsibilities of the employer and employee under the Health and Safety Act and how to comply with them
2. the main responsibilities of the employer and employee under environmental legislation
3. how to carry out and review risk assessments
4. the company reporting lines, roles, responsibilities and levels of authority
5. the identification and application of safe procedures for handling hazardous and toxic materials
6. organisational accident recording and reporting procedures
7. the range and use of personal protective equipment for the work activity and procedure checking PPE is fit for purpose
8. statutory, organisational and emergency reporting procedures
9. the potential dangers and hazards from medium or intermediate or high pressure

Installing Engineering Components and Assets

10. organisations policy and procedures for meeting relevant statutory requirements
- Codes of Practice
11. the procedures for and importance of obtaining the correct authorisations
 12. the factors affecting, and means of confirming, the suitability of excavations
 13. potential dangers in trenches and cavities
 14. the dangers of taking actions that can create confined spaces risks in excavation
 15. the importance of using the correct plant, tools, materials and system Components
 16. reporting procedures for defective plant, tools, materials and system Components
 17. faults associated with use of incorrect installation methods and tools
 18. the range of isolation methods available and rationale for selection
 19. the importance of obtaining necessary permissions for isolation of any part of the network
 20. range of actions to be taken if work cannot proceed to schedule
 21. means of determining appropriate safe remedial action if work cannot proceed
 22. methods of accessing information obtainable from reference documents, Regulations and Codes of Practice
 23. the organisation's policy and procedures for meeting relevant statutory requirements
- Regulations, Codes of Practice

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24. types and causes of disruption likely and avoidance measures
 25. dangers of inadequate handling and lifting procedure
 26. types and signs of defect likely to be present on sub-system and means of detection, correct, and safe, action
 27. the importance of compliance with current industry standards

EUS GNC012

Install Engineering Components and Assets in Gas Network
Construction



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Organisation** Energy & Utility Skills

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**Relevant
Occupations** Gas Team Leaders, Craftspersons and Technicians

Suite Gas Network Construction

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