Gas Network Team Leader

Unit SLM01 Install Gas Services up to and including 63mm Diameter

This assessment specification has been developed as part of the gas team leader standard for service layer. The specification details the required skills, knowledge and behaviour that a learner should expect to be assessed against during their training programme. Successful completion of this unit will demonstrate a learner's ability to install gas services using a variety of installation methods up to 63mm in diameter.

The assessment specification is the minimum core standard of these requirements, but this does not preclude employers from enhancing the skills and knowledge of the learner through additional or company specific training. The knowledge and performance criteria should be used as the basis for training input.

What does this specification look like?

Gas network service layers need to be able to:

IGS1 Interpret technical information for installing components of the system
IGS2 Select components and resources for installation of the system
IGS3 Install components of the system
IGS4 Use and communicate data and information
IGS5 Understand relevant health and safety guidance and legislation used
IGS6 Understand how to install gas services up to 63mm

What do I need to take this module?

Prior to taking this module, candidates should have completed units IND1 and SMLM08 – Utility SHEA gas and be working towards the common core units.

Candidates to be **assessed** as competent in this area must successfully meet the criteria listed below or have other unitary evidence demonstrating an equivalent level of competence.

Evidence must be gathered from the workplace on at least one occasion.

Performance Criteria

To achieve this unit you will need to be able to:

Interpret technical information for installing components of the system

P1. Produce work details for component installation use
P2. From the technical information take off; dimensions, lengths, widths quantities, utilities plant, services, buildings, kerbs, boundaries
P3. Demonstrate how to make corrections through drawings, records and work documents

Be able to select components and resources for installation of the system

P4. Select the type of components in compliance with the work and quality specifications
P5. Comply with procedures to replace defective components
P6. Comply with procedures to replace non-match components
P7. Comply with procedures to replace sub-standard components
P8. Confirm the availability of sufficient resources
P9. Handle changes to the planned use of the resource
P10. Confirm components and installation equipment are operational

Be able to install components of the system

P11. Determine the method of installation to be used when installing components of the system
P12. Carry out a site-specific risk assessment and review in accordance with company policy
P13. Select and wear the designated PPE
P14. Confirm the condition of the excavation conforms to instructions and specifications
P15. Select, prepare and operate installation equipment in accordance with the specification and manufactures instructions
P16. Assemble components to industry standards using mechanical and / or fusion welding techniques
P17. Carry out site-specific tasks appropriately to prevent equipment damage
P18. Position components in accordance with the specification
P19. Protect installed assets with fine fill in accordance with specification and approved codes of practice
P20. Maintain proximity distances from other utilities apparatus in accordance with approved codes of practice

P21. Connect to the existing system using in-line squeeze off, side entry or top entry tee in accordance with codes of practice
P22. Support and anchor installed assets in accordance with codes of practice
P23. Confirm that the quality of the installation complies with the specified standard
P24. Maintain the security and safety of the system and third parties where work is not complete or not to schedule
P25. Ensure work practices conform to safe working procedures throughout the work activity
P26. Comply with procedures where lone working is required

Be able to use and communicate data and information

P27. Provide instructions to individuals who will be using technical information
P28. Confirm instructions have been understood by individuals using technical information
P29. Report to a designated person inaccuracies in the technical information sources used
P30. Complete work documentation accurately
P31. Record work documentation in the specified place or pass to a designated person
P32. Comply with procedures if working on a 'permit to work' designated activity

Be able to resolve problems that arise from technical information and installation work

P33. Report to the designated person any damage or defects to resources using approved procedures
P34. Report to the designated person work which is incomplete and not to schedule
P35. Report to the designated person problems and conditions outside the responsibility of the job role

Knowledge and Understanding

To achieve this unit, you will need to:

Health and safety guidance and legislation in utilities network construction operations

K1. Know the main responsibilities of the employer and employee under the Health and Safety at Work Act
K2. Describe the health and safety guidance governing work in excavations
K3. Describe the safe procedures for handling hazardous materials
K4. Explain the organisational accident recording and reporting procedures
K5. Identify the range and use of PPE for the work

Understand how to install gas services up to 63mm

K6. State the main responsibilities of employers and employees under the current Working at Height regulations
K7. Explain the importance of carrying out on-site risk assessments and the need for constant review
K8. Explain the importance of implementing a safe system of work (SSOW) document when working in excavations
K9. Explain the importance of obtaining necessary permissions for isolation of any part of utilities network
K10. Explain the importance of complying with current industry standards
K11. State the organisation's policy and procedures for meeting the relevant; statutory requirements, regulations and codes of practice
K12. Explain the implications of not obtaining the correct authorisation
K13. Explain the implications of using incorrect plant, tools and materials
K14. Explain the implications of using incorrect system components
K15. Explain the actions to be taken where plant, tools, materials and system components fail to meet required specification
K16. Describe faults associated with the use of inappropriate installation methods and tools
K17. Identify potential dangers in excavations
K18. Describe the factors affecting, and means of confirming, the suitability of excavations
K19. Explain the dangers of taking actions that can create confined space risks in excavations
K20. Describe the range of isolation methods available and the rationale for their selection
K21. Explain the procedure for obtaining authorisation to proceed with connections
K22. Identify the range of actions to be taken if work cannot proceed to schedule
K23. Explain how to determine appropriate safe remedial action if for any reason work cannot proceed
K24. Identify methods of accessing information from different sources
K25. Identify types and causes of likely disruptions
K26. Identify methods of avoiding disruption
K27. Explain the dangers of inadequate handling and lifting procedure
K28. Describe the types and signs of defect likely to be present on sub-system and means of determining the appropriate safe action