

Gas Network Team Leader

Unit MLM02 Install Gas engineering Products or Assets from 90mm up to 180mm diameter

This assessment specification has been developed as part of the gas team leader standard for main layer. The specification details the required skills, knowledge and behavior 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 engineering products or assets as required for main laying activities.

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 main layers need to be able to:

- IGEP1 Interpret technical information for installing components of the system
- IGEP2 Select components and resources for installation of the system
- IGEP3 Install components of the system
- IGEP4 Use and communicate data and information
- IGEP5 Resolve problems that arise from technical information and installation work
- IGEP6 Understand relevant health and safety guidance and legislation used
- IGEP7 Understand how to install gas engineering assets

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 two occasions and through a training centre based trade test. Evidence will not be admissible for any diameter less than 90mm for this unit.

Performance Criteria

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

Interpret technical information for installing components of the system

- P1. Use drawings, records, work documents, manuals, and technical specifications to provide work details for component installation
- P2. Take off dimensions, lengths, widths, and quantities from the technical information
- P3. Take off the positions of utilities plant, services, buildings, kerbs and boundaries from the technical information
- P4. Make corrections through drawings, records and work documents

Select components and resources for installation of the system

- P5. Select the type of the components in compliance with the work and quality specifications
- P6. Follow procedures to replace defective components, non-match components, and sub-standard components
- P7. Ensure sufficient labour, plant, equipment, materials and consumables are available for the job in hand
- P8. Deal promptly and effectively with actual and predicted changes to the planned use of the resource
- P9. Check components and installation equipment for operability and ensure free from damage

Install components of the system

- P10. Determine method of installation to be used (e.g. dead insertion, live insertion, soil displacement, directional drilling, and open cut)
- P11. Carry out a site-specific risk assessment and review in accordance with company policy
- P12. Select and wear the designated PPE
- P13. Check and confirm the condition of the excavation conforms to instructions and specifications
- P14. Select, prepare and operate installation equipment in accordance with the specification and manufacturer's instructions
- P15. Position components in accordance with the specification
- P16. Assemble components to industry standards using mechanical and / or fusion welding techniques
- P17. Take adequate precautions to prevent damage to components, tools and equipment during installation

- P18. Protect installed assets with fine fill in accordance with specification and codes of practice
- P19. Maintain proximity distances from other utilities apparatus in accordance with approved codes of practice
- P20. Ensure installed assets are supported and anchored in accordance with codes of practice
- P21. connect to existing system using in-line squeeze off, flow stopping techniques (e.g. bag stop, iris stop), side entry or top entry tee, in accordance with codes of practice
- P22. Check quality of installation and confirm compliance with specified standard.
- P23. Maintain the security and safety of the system and third parties where work is not complete or not to schedule
- P24. Ensure work practices conform to safe working procedures throughout the work activity
- P25. Follow all procedures where lone working is required

Use and communicate data and information

- P26. Provide oral information to the people who will require technical information in a way that ensures they have understood it
- P27. Provide written instructions to the people who will be using technical information in a way that suits the type of information and how it will be used
- P28. Confirm the recipients of technical information have understood it
- P29. Report, to a designated person, any inaccuracies in the technical information sources used
- P30. Complete work documentation accurately and record it in the specified place or pass to a designated person
- P31. Follow correct procedures if working on a 'permit to work' designated activity

Resolve problems that arise from technical information and installation work

- P32. Report - to the designated person - damage or defects to tools, equipment or materials
- P33. Report work which is incomplete and not to schedule to the designated person
- P34. Refer problems and conditions outside the responsibility of the job role to a designated person using approved procedures

Knowledge and Understanding

To achieve this unit, you will need to know and understand:

General

- K1. The main responsibilities of the employer and employee under the Health and Safety at Work Act

- K2. The health and safety guidance governing work in excavations
- K3. The safe procedures for handling hazardous materials
- K4. Organisational accident recording and reporting procedures
- K5. The range and use of PPE for the work

Installing engineering products or assets

- K6. The importance of carrying out on-site risk assessments and the need for constant review
- K7. The importance of understanding and implementing a safe system of work (SSOW) document when working in excavations
- K8. Organisations policy and procedures for meeting relevant statutory requirements, regulations, codes of practice
- K9. The implications for not obtaining the correct authorisation
- K10. The factors affecting, and means of confirming, the suitability of excavations
- K11. Potential dangers in trenches and holes
- K12. The main responsibilities of employers and employees under the current Working at Height Regulations
- K13. The dangers of taking actions that can create confined spaces risks in excavations
- K14. The implications of using incorrect plant, tools, materials and system components
- K15. Actions to be taken where plant, tools, materials and system components fail to meet required specification
- K16. Faults associated with use of inappropriate installation methods and tools
- K17. Range of isolation methods available and rationale for selection
- K18. The procedure for obtaining authorisation to proceed with connections
- K19. The importance of obtaining necessary permissions for isolation of any part of utilities network
- K20. Range of actions to be taken if work cannot proceed to schedule
- K21. Means of determining appropriate safe remedial action if work cannot proceed
- K22. Methods of accessing information obtainable from reference documents, regulations, codes of practice
- K23. The organisation's policy and procedures for meeting relevant statutory requirements, regulations, codes of practice
- K24. Types and causes of disruption likely and avoidance measures
- K25. Dangers of inadequate handling and lifting procedure
- K26. Types and signs of defect likely to be present on sub-system and means of determining the correct, and safe, action
- K27. The importance of compliance with current industry standards

Behaviour which underpins effective performance. You must work in a manner in which you:

- a) Are vigilant to possible risks and hazards

b) Treat people with civility