



Gas Network Craftsperson Emergency response Practical Task 6 - DMET End-Point Assessment

Meter Installations 6m³/hr – 40m³/hr

Unit Code MTRI

Level 3

Practical Task Specification

This specification has been developed as part of the Gas Network Craftsperson Emergency Response Pathway. The specification details the apprentice's required skills, knowledge and behaviour on all relevant matters of gas safety in relation to the installation and exchange and removal of gas diaphragm meters of capacity 6m³/hr – 40m³/hr.

The assessment specification is the minimum core gas safety 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.

Successful completion of this practical task will provide evidence that the apprentice has the required knowledge, understanding and performance skills to install and maintain gas diaphragm meters of capacity 6m³/hr – 40m³/hr.

What does this specification look like?

Gas Emergency Response Apprentices will be able to

- Determine the pressure of the gas service
- Plan and prepare work activities for installing, exchanging or removing gas diaphragm meters of capacity 6m³/hr – 40m³/hr
- Confirm the location of the meter installation is in accordance with regulations and industry requirements
- Install, exchange, and remove gas meters to industry standards
- Identify and apply the correct notices, forms and labels as required for gas diaphragm meter installations

What does the assessment include?

This assessment covers the following matters of gas safety requirements:

- MET1 the installation, exchange or removal of gas diaphragm meters of capacity 6m³/hr
- MET4 the installation, exchange or removal of gas diaphragm meters of capacity 40m³/hr

The apprentice must demonstrate their achievement of all assessment outcomes. This will be evidenced through the practical task observation, typically being delivered under simulated conditions, in a realistic workplace environment. Evidence of the apprentice's observation must be recorded on the assessment templates provided by the EUIAS and on the practical task record form.

The practical task must include:

- The Installation of domestic diaphragm gas meters of capacity 6m³/hr
- The Installation of diaphragm gas meters of capacity 40m³/hr

- Satisfactory completion of tightness test procedures
- The setting and adjustment of meter regulators

Realistic Working Environments (RWE) Centre Requirements

Centres are responsible for ensuring that the RWE assessment is suitably controlled to ensure that assessment decisions are valid and reliable, and that work submitted for assessment by the apprentice is prepared and produced by them independently, without assistance from others, and free of plagiarism.

The practical task must be designed following the guidance and requirements given in this document. The Technical Expert Checklist must be adhered to and cannot be altered without prior written consent from EUIAS

Centres may deliver any number of the practical tasks together in combined assessment of their own design, but this must be in with the prior agreement with EUIAS.

Where the combined option is used the performance and knowledge criteria of each unit assessment must be satisfied and the respective Technical Expert checklists must be completed.

The following normative documents should be made available to the apprentice throughout the assessment process:

Building Regulations
BS6891
BS6400
IGE/UP/1b
GSIUR
GSIUP
HSL56 Reg 12, Reg13 and Reg16

Practical Task Centre Requirements

The assessments covering the matters of gas safety requirements are:

- MTRI1** The installation or exchange of diaphragm meters and associated equipment of capacity 6m³/hr and 40m³/hr
- MTRI2** The tightness testing and purging of low-pressure, natural gas installations of volumes ≤ 0.035 m³
- MTRI3** The testing and commissioning of regulators and valves

The practical task must be conducted under the supervision of a technical expert from the apprentice's employer. The technical expert will write a factual account of the practical task using the EUIAS documentation, therefore verifying whether the task was completed appropriately. The practical task is administered by the employer. The employer technical expert must be approved and trained by the EUIAS. The employer technical expert must be independent of the apprentice; please refer to the Gas Network Craftsperson Assessment Plan page 9 and Section 5 of the Specification for further details.

The assessment area must be designed to include all of the following criteria:

- Facility for the installation or exchange of:
 - Domestic meters of capacity 6m³/hr
 - Diaphragm meters of capacity 40m³/hr
- Pipework fittings and equipment to facilitate the meter installation / exchange including:
 - Meter brackets
 - Meter Regulator
 - Meter connections
 - Pliable connections
 - ECV valves
 - Connection to a downstream installation
 - A gas burning appliance to allow purging, operating pressure checks and confirm meter operation
- The centre must supply all the installation materials and tools required to complete the task
- The assessment area must be devoid of any labels and notices but a selection of appropriate labels and notices are made available for the apprentice to choose and apply as necessary.
- Centres are free to arrange assessment bays to suit their requirements providing that the conditions of providing a realistic working environment and safety requirements are met
- The area used for assessment must be for such purposes only and the apprentice must not have previously worked in the same area or bay

Apprentice requirements

The apprentice must successfully complete all of the following:

- Ensure all health and safety requirements are observed throughout the assessment
- Prepare the work site for installation by ensuring that all work areas are free from hazards and that all surfaces are prepared.

- Assess the work location, plan out the pipework routes and the materials that are required
- Confirm the availability of all appropriate information required to complete the task
- Confirm the location of the meter and that ventilation requirements are satisfactory
- Identify appropriate input services and confirm they are suitable for the proposed installation
- Install or exchange the meter in the agreed location and complete all pipework connections as necessary
- Complete pipework connections to the downstream installation
- Satisfactorily complete a tightness test on the installation
- Inspect a gas installation and identify any pipework installation defects
- As appropriate supply and fit the correct labels for the meter installation

Grading

Will take place during Session 1 of the technical interview, underpinned by the logbook. Session 1 will only focus on the practical task (post gateway evidence). The employer technical expert will complete a factual account of the practical task and submit the outcomes to the EUIAS for the independent assessor to review. The factual account of the task will be used to inform questioning in Session 1 of the interview. It must not be referenced in Session 2.

The independent assessor who conducts the interviews will combine the result of Session 1 (practical task – post gateway) and Session 2 (on-programme – post gateway) to determine the overall technical interview grade. A fail in either of the two parts will result in the technical interview fail grade being awarded. The technical interview pass and distinction grading combinations are shown in table 5 of the Assessment Plan on page 19 and in Section 5 of the GNC Emergency Response Specification.

Assessment duration

The apprentice has 4 hours to complete this Practical Task.