Strategic Management Board

ACS.MET 4
INITIAL & RE-ASSESSMENT
EMERGENCY SERVICE PROVIDER AND GAS METER INSTALLER
NON-DOMESTIC
DIAPHRAGM METERS
NATURAL GAS

MET4 INITIAL and RE-ASSESSMENT

Introduction

Tests gas safety competence to install, exchange, remove and commission diaphragm type gas meters.

Candidates who have achieved CMET1 may also install meters within the scope of MET4

Candidates successfully completing this assessment may also install LP meters of capacity ≤ 6 m^3/h.

CBs may adopt Competence and Criteria numbering different to that used in this document.

CB documentation may adopt wording for criteria different to that used in this document, provided the meaning is unaffected.

Range

Primary diaphragm meters of badged capacity ≤40m^3/h.
Pipework of diameter ≤ 2" (50 mm) diameter.
LP only.

Pre-requisites

CMA1 or CESP1 or CCN1 or COCN1 or CCCN1
or QCF or S/NVQ.
Note: If working on meters >16m^3/hr or working on installations out of scope of UP/1B TPCP1 or TPCP1A is required.

Note: Work on meters with MP meter ≤ 6 m^3/h require REGT1 , MP supplies ≥ 6 m^3/h also require REGT 2.

Exclusions
Secondary meters; meter reading; pre-payment mechanisms; meter box installation; construction of meter compartments or housings; service pipework; installation or exchange of ECV/MIV; service valves or their operation; meter removal from site and subsequent disposal; testing by OFGEM and theft of gas.

References

- HSL56
- IGEM/GM/6 Edition 3
- IGEM/G/11 Edition 2
- GIUSP.

Where a reference point (REF) is listed in this criteria this is only a guide to where the criteria could be resourced; therefore, the REF may not be exhaustive.

ACS.SMB. 003.ACDND indicates those Normative Documents that should be held by ACs.

Abbreviations

AC. Assessment Centre
ECV. Emergency control valve
GSIUR. Gas Safety (Installation & Use) Regulations
I. Initial
LP. Low pressure
MIV. Meter inlet valve
MOP. Maximum operating pressure
MOV. Meter outlet valve
MP. Medium pressure
OP. Operating pressure

Ref. Reference.

PERFORMANCE CRITERIA	REF	I	R
1a. determine pressure in service as LP OQ Related to service pressures > 75mbar		✓	
1. check ECV operates correctly		✓	
2. note and confirm connected appliances to internal supply are of the 'standard type'		✓	
3. check meter and installation components are fit for use and purpose and regulator has been factory set at an appropriate pressure to suit the installation and sealed with manufacturer's mark		✓	✓
3(a). Preparation check of meter components for obstructions		✓	✓
3(b). check pressure test records of components		✓	
Criteria removed			
4. isolate gas supply prior to work		✓	
5. remove plug/cap from ECV		✓	
6. Connect diaphragm meter , ECV/MIV and regulator via bracket, semi-rigid connection, fittings, washers		✓	
7. Correct use temporary continuity bond		✓	
7a check the meter and associated pipework , supports and fittings / components for use are of the appropriate materials inc jointing agents, to MIs and normative documents			✓
8. re-establish gas supply		✓	
9. check work carried out is gas tight		✓	✓
10. purge meter and re-light appliance(s)		✓	✓
10a. OQ check regulator locks up at a pressure <28 mbar with no gas flowing		✓	✓
11. check regulator OP		✓	✓
12a observe meter for faulty operation		✓	✓
12b check valves, controls, filters, regulators for correct and safe operation		✓	✓
12c identify gas safety faults on valves, controls, filters, regulators		✓	✓
12d identify suitable unsuitable meter locations		✓	✓
12e identify unsafe installations (AR, ID)		✓	✓
12. disconnect and seal meter		✓	
13. apply appropriate labels and complete warning notices/ certificates		✓	✓
14. operation and use of AECV/MIV /MOV where appropriate		✓	
KNOWLEDGE AND UNDERSTANDING	**REF**	**I**	**R**
1. Incorrect meter locations		✓	
1a Provisions and clearances required around meters		✓	
1b Permission requirements for meter installation		✓	
1c Meter design and connections		✓	
1d the use of flexible or pliable connections in meter installations		✓	
2. determine the meter capacity is sufficient		✓	
2a the requirements and understanding of load		✓	
3. volume of gas which has to be passed by a meter to effect a satisfactory purge		✓	
4. provision of an MOV		✓	
5 ECV types and locations		✓	
6. ECVs/MIVs when meter is installed remotely from dwelling		✓	
7. where primary meters serving different parts of a building are grouped together		✓	
8 Meter housing requirements including ventilation		✓	✓
9. safety notices and labels		✓	
10. providing gas supply to installation pipework/appliances for first time		✓	
11. procedure for meter installation when gas service is not connected to gas i.e., Reg.33		✓	
12. unsafe meter installations		✓	
13 Adjacent electrical services		✓	✓
14. **HSL56:**			
(i) Reg.12 Meters – General provisions 12 (1) to (6)		✓	
(ii) Reg.13 Meter Housings 13 (1) to (4)		✓	
(iii) Reg.16 Primary meters 16 (1) and (2)		✓	
15 completion of commissioning reports		✓	✓
16 **recognition of meter installations not in scope of IGEM/GM/6 Edition 3 & MET4 i.e.:** (i) containing a by-pass of the meter and/or of the regulator (ii) not of Standard Design		✓	✓

	(iii) outside pressure and design capacity scopes having non-standard appliances fitted downstream			
17.	Maintenance obligations		✓	✓
18.	Replacement or removal of meters and safety checks required		✓	✓