Strategic Management Board

ACS.CMET1
SAFETY ASSESSMENT CRITERIA
INITIAL and RE-ASSESSMENT
EMERGENCY SERVICE PROVIDER AND GAS METER INSTALLER
LOW PRESSURE DIAPHRAGM AND ROTARY DISPLACEMENT METER INSTALLATIONS
NATURAL GAS

CMET1 INITIAL and RE-ASSESSMENT

Introduction
Tests gas safety competence to install, commission, service, maintain and exchange LP meter installations within the scope and range of IGEM/GM/6 .

Candidates successfully completing CMET1 may also install meters covered by MET4

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 meter installations without by-pass and of badged capacity > 6 m^3/h ≤ 1076 m^3/h and where the inlet pressure under normal gas supply conditions does not exceed 75 mbar and a meter regulator is to be installed.

This Assessment does not address meter installations that are not connected directly to and downstream of the ECV, nor does it address those that are not adjacent to the ECV. Work on such installations requires CMET2.

This Assessment does not address meter installations that are not Standard Designs, as defined in IGEM/GM/6 & where a by-pass is included.
IGEM/GM/6 Edition 3 no longer includes by-passes in its scope. New installations with a by-pass are covered by CMET2. However, this assessment continues to include the safe operation of by-passes to address existing installations.

Pre-requisites
COCN1 or CMA1 or CESP1
+ ICPN1
+ TPCP1 or TPCP1A.
or QCF or S/NVQ.

Engineers holding TPCP1 are deemed competent to work to IGE/UP/1, IGE/UP/1A, and IGEM/UP/1C.

Exclusions
Calculating gas load; design; construction/installation of meter boxes, compartments or housing; installation or replacement of ECV, service valves or their operation; meter removal from site and subsequent disposal; testing by OFGEM, and theft of gas.

Certification in this assessment does not of itself confer approval as an accredited Meter Installer or registered gas meter installer.

References and normative documents
The References (REF) where indicated are only a guide to where the criteria can be resourced and therefore the REF may not be exhaustive.

- MI's.
- HSL56
- GIUSP
- IGEM/GM/6 Edition 3
- IGEM/GM/8 Edition 2 Parts 1 to 5
- IGE/UP/2 Edition 3.

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

Abbreviations
AC. Assessment Centre
ECV. Emergency control valve
GT. Gas transporter
I. Initial
LP. Low pressure
MI's. Manufacturer's/manufacturers' instructions
MOV. Meter outlet valve
Ref. Reference.

PERFORMANCE CRITERIA	REF	I	R
1 Install U series Type meter			
1a. check ECV operates correctly		✓	
2. confirm connected appliances are of the 'standard type'		✓	
3. check all components are fit for use and purpose		✓	✓
3(a). check all components for obstructions		✓	✓
3(b). check pressure in service pipe is LP or MP		✓	✓
3(c). check pressure test records of components as required		✓	✓
Criteria removed			
4. isolate gas supply prior to work		✓	
5. remove plug/cap from ECV		✓	
6. position U65 meter correctly		✓	
7. assemble and install all components of meter installation		✓	
8. Tightness Test and Purge		✓	✓
9 commission U65 to MI's and: (i) observe meter for faulty operation, (ii) apply necessary notices and labels		✓	✓
10 **Existing installations with by-pass & not compliant to IGEM/GM/6**			
(i) recognise as 'not a standard design' (ii) carry out correct operation of by-pass to exchange meter while maintaining gas supply to appliances, inc. reading meter (iii) seal by-pass valve		✓	
11. criteria removed – covered in 7			
12. criteria removed – covered in 7			
13 Exchange a Rotary meter			
Criteria removed			
13b. position RD1 meter correctly		✓	
14. assemble and install all inlet supply components of meter installation		✓	
14(a) install commissioning filter/strainer		✓	
15. adequately support pipework		✓	
16. install and level meter		✓	
17. assemble and install all outlet components		✓	
18. criteria removed – covered in 7			
19. Lubricate & check fill level of RD1 meter to MI's?		✓	✓
20. test RD1 meter installation for tightness		✓	✓
21. purge RD1 meter installation of air		✓	✓
Criteria removed			
23. set meter regulator and seal		✓	
24. remove commissioning filter/strainer. Re-test and purge.		✓	
25. check meter and associated pipework and fittings use appropriate materials and jointing agents, to MIs and normative documents			✓
26. check installation pipework and fittings use appropriate materials and jointing agents, to MIs and normative documents			✓
27. check valves, controls, filters, regulators, flanges, and other appropriate gas safety fittings and equipment use appropriate materials and jointing agents,			✓

to MIs and normative documents			
28. check valves, controls, filters, regulators for correct and safe operation			✓
29. identify gas safety faults on valves, controls, filters, regulators & recording			✓
30. identify suitable/unsuitable meter locations (specific to assessment)			✓
31. identify unsafe installations (AR, ID)			✓
32. attach correct labels and complete warning notices/certificates			✓
33. verify newly installed pipework between ECV and outlet of regulator for MOP > 75 mbar			✓
KNOWLEDGE AND UNDERSTANDING	**REF**	**I**	**R**
1. completion of commissioning reports		✓	
1(a). recognition of meter installations not in scope of IGEM/GM/6 Edition **3**		✓	✓
1(b). obtaining GT authorisation to connect a meter installation and for the location and design of any purpose-built housing		✓	
2. labelling		✓	
3. use of main protective bonding for meter installations		✓	
4. routine maintenance of meters		✓	
5.			
6. routine maintenance of filters and strainers		✓	
7. recognition of meter faults		✓	
8. safety requirements for removal of meters		✓	
9. documentation when opening by-pass valves		✓	
10. sealing meter regulators		✓	
11. provision of MOV		✓	✓
12. pressure terms used in IGEM/GM/6		✓	
13. actions to take when the ECV not of an acceptable type		✓	
14. Meter Housing requirements including ventilation		✓	
15. Conformity to Meter types other than Diaphragm and Rotary		✓	
16. Replacing , updating and removal of meters installations		✓	✓