Strategic Management Board

ACS.MET1
SAFETY ASSESSMENT CRITERIA INITIAL & RE-ASSESSMENT

NATURAL GAS DOMESTIC GAS METERS WITH A MAXIMUM CAPACITY NOT EXCEEDING 6m³/h

MET1	Initial and Re-assessment

Introduction
Tests gas safety competences to install, commission, exchange and remove domestic gas meters.
The reference to MET 2 is now withdrawn
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 of meters
Primary or secondary meters of capacity up to and including 6 m^3/h.

Pre-requisites
CCN1 or equivalent and changeover
CESP1 or
CMA1 or CMA3 or QCF or S/NVQ.
Or Group Competency Certificate for re-assessment.

Operatives installing MP primary meters $\leq$ 6$m^{3/}h$ with supply pressure > 75 mbar also require REGT1.

Operatives holding CESP1, CMA1 & CMA3 are limited to install, exchange, remove and commission primary meters only.

Exclusions
Meter reading, pre-payment mechanisms, meter box installation, construction of meter compartments or housings, gas service pipework installation, installation or exchange of emergency/meter controls to service pipework, service valves or their operation, meter removal from site and subsequent disposal, testing by Office of Gas Supply Technical Directorate or by OFGEM Technical Directorate and theft of gas.

References and normative documents
All relevant documents as listed in the Legislative, Normative & Informative Document List (LINDL) inc.:

- HSL56
- BS 6400-1
- BS 6400-2
- BS 6891
- IGE/G/6
- GIUSP.
- IGE/UP/1b

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

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

Abbreviations
AC. Assessment Centre
ECV. Emergency control valve
I. Initial
LP. Low pressure
MI. Manufacturer's/manufacturers' instructions
MIV. Meter inlet valve
MP. Medium pressure
OP. Operating pressure
Ref. Reference.
R. Re-assessment

PERFORMANCE CRITERIA	REF	I	R
1a. determine pressure in gas service pipe as being LP or MP	BS 6400-1:2016 8.2.3.	✓	
1b. check ECV/MIV operates correctly	BS 6400-1:2016 8.2.3.2	✓	✓
2. note and confirm appliances connected to internal supply	GSIUR	✓	✓
3. check meter and installation components are fit for use and purpose and regulator has been appropriately set and sealed with manufacturer's mark	BS 6400-1:2016 10.1.2	✓	
4. isolate gas supply prior to work	GSIUR Reg 6	✓	
4a correct use of temporary continuity bond	BS6400-1:2016 8.2.4	✓	
5. remove plug/cap from ECV/MIV	GSIUR Reg 6	✓	
6. connect meter, ECV/MIV and regulator using a bracket, pliable connection, fittings and new washers.	BS 6400-1	✓	
7. re-establish gas supply	IGEM /UP/1B	✓	
8. check work carried out is gas tight .	GSIUR Reg 6 & IGEM/UP/ 1B	✓	✓
9. purge exchanged meter and re-light existing appliance(s)	IGEM/ UP/ 1B	✓	✓
10. check regulator OP (19 to 23 mbar)	BS 6400-1 6.3.2 & 10.1.1	✓	✓
10a. check regulator locks up at a pressure not exceeding 30 mbar with no gas is flowing (OQ)	10.1.1 (b)	✓	✓
11. break seal, re-set and re-seal regulator	10.1.2	✓	
11a. identify gas safety faults on valves, controls, filters, regulators	17 .3		✓
12. disconnect and seal meter	Section 14	✓	
13. apply appropriate labels and notices	11 & 14.3	✓	✓
14. explain operation and use of ECV/MIV	Section 16	✓	
15. verify newly installed pipework between ECV and outlet of regulator for MOP > 75 mbar			✓
KNOWLEDGE & UNDERSTANDING	**REF**	**I**	
1 Incorrect meter locations	GSIUR , BS 6400-1:2016 6.9.1 .3 BS 6400-2 6.13 to 6.14	✓	
1b Permission & requirements for meters & regulators when relocated	TB 127	✓	✓
1c Semi concealed meter box installations and the use of 2~~a~~ pliable connectors~~-ion~~	BS 6400-1:2016 8.2.7.4.2	✓	✓
1d Installation requirements for Meters , Regulators and pliable connections	BS 6400-1:2016 8.2.7.2 to 8.2.7.4	✓	✓
2. Requirements for determining the maximum capacity of a meter.	BS 6400 -1:2016 Annex A	✓	✓
3. volume of gas to be passed by a 6 m3/h meter to effect a satisfactory purge	IGEM UP/1/B	✓	✓
5. meters supplying mobile dwellings, and boats	IGEM/G/6	✓	
6. ECV/MIV when meter is installed remotely from dwelling	GSIUR Regulation 9 and BS 6400-1:2016 8.3	✓	
7. requirements for a number of primary meters grouped together and serving a multi-occupancy building	BS 6400 -1:2016 8.3	✓	
8. criteria for installation of secondary meters (not required for CESP1, CMA1 or CMA3.)	6.4.2	✓	
9. safety notices and labels for meters and meter installation pipework	Section 11	✓	
10. criteria for providing a gas supply to installation pipework and/or appliances for first time	Section 16	✓	
10b The Installation is determined to stay within scope of IGEM/UP/1b	IGEM/UP/1b	✓	✓
11. procedure for installing meter when service is not connected to gas i.e. GSIUR Reg.33	BS 6400 -1:2016	✓	
12. Recognize unsafe meter installations, specifically :- the location & operation of ECV or AECV, the incorrect sealing of meter boxes to prevent gas entering the cavity and the procedures the operative should take when the working pressure is found outside normal parameters	BS 6400 -1: 6.9.1.2 - 6.9.3, GIUSP & GSR defect list	✓	✓
13. **HSL56:**			
(iii) Reg.12 Meters – General provisions 12 (1) to (6)		✓	
(iv) Reg.13 Meter Housings 13 (1) to (4)		✓	
(v) Reg.16 Primary meters 16 (1) and (2)		✓	