# ACS CMET 2
# Safety Assessment Criteria

# Initial & Re-Assessment Emergency Service Provider and Gas Meter Installer

# Diaphragm, RD and Turbine Meter Installations

# NATURAL GAS ONLY



CMET2 Issue 6.3 © ACS.SMB JULY 2026

# CMET2 INITIAL & RE-ASSESSMENT

## Introduction

Tests gas safety competence to install, commission, service, maintain and exchange non-domestic diaphragm, RD, USM and turbine meter installations.
Candidates successfully completing CMET2 may also install, commission and service MP regulators that would fall within the scope of REGT2
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 incorporating diaphragm, rotary displacement, ultrasonic or turbine meters with and without by-pass at a pressure not exceeding 7 bar and not in the scope of IGEM/GM/6 Edition 2 (covered by CMET1).

## Pre-requisites

COCN1 or CMA1 or CESP1 or COCNPI 1LS (ND CORE PART A)
+ ICPN1 + TPCP1 + CMET1 or QCF or S/NVQ**.**

## Exclusions

Gas load assessment; measurement, installation and use of volume conversion systems and energy computation of gas meter readings to reference conditions; electrical or electronic connections to meters; construction or installation of meter boxes, compartments or housing; installation or replacement of ECVs, service valves or their operation; hydrostatic testing; 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 'AMI' registered gas meter installer.

Exclusion for candidates holding the pre-requisite "COCNPI 1LS" only:
Connection, commissioning or relighting of appliances.

## References

- MIs.
- HSL56
- IGEM/GM/8 Edition 2 parts 1-5
- IGEM/UP/2 Edition 3
- IGE/UP/1
- IGEM/GM/7B
- GIUSP.

ACS.SMB.003.ACDND identifies Normative Documents that should be held by ACs.
The References (REF) where indicated are only a guide to where the criteria can be resourced and therefore, the REF may not be exhaustive.

## Abbreviations

AC. Assessment centre
CB. Certification Body
ECV. Emergency control valve
GT. Gas transporter
I. Initial
MIP. Maximum incidental pressure
MOP. Maximum operating pressure
MIs. Manufacturer's/manufacturers' instructions
OP. Operating pressure
Ref. Reference
SSV. Slam-shut valve
STP. Strength test pressure.

| PERFORMANCE CRITERIA | REF | I | R |
|---|---|---|---|
| 0. **complete pre-installation checks to include:** | | | |
| (i) Identify / check service pressure | | ✓ | |
| (ii) check suitability of location and identify hazardous areas classification | | ✓ | ✓ |
| (iii) check ventilation and position of vents | | ✓ | |
| (iv) check system controls and determine operating pressure of load | | ✓ | ✓ |
| (v) obtain authorization of GT and sealing requirements | | ✓ | |
| (vi) determine zoning distances surrounding installation fittings and components | | ✓ | ✓ |
| 1a **Safe working procedures**: | | ✓ | ✓ |
| 1. check ECV operates correctly | | ✓ | |
| 2. check meter and installation components are fit for use and purpose (pressure breaks, rating, adequate supports, termination of creep relief) | | ✓ | ✓ |
| 3. isolate gas supply prior to work | | ✓ | ✓ |
| 4. remove blind flange from ECV (on a new installation) | | ✓ | |
| 5. assemble/install straight length of meter inlet/outlet connection, valve, regulator, safety devices, impulse lines, filter | | ✓ | |
| 6. position turbine meter correctly | | ✓ | |
| 7. assemble and install outlet pipework and MOV | | ✓ | |
| 8. install test/purge points | | ✓ | |
| 9. adequately support pipework | | ✓ | |
| 10. install, level and support turbine meter | | ✓ | |
| 11. lubricate turbine meter to MIs | | ✓ | ✓ |
| 12. test for tightness and purge meter installation of air | | ✓ | ✓ |
| 13. **commission meter installation (IGE/GM/8 Parts 3 Section 18)** | | | |
| (i) check all components function to MIs | | ✓ | ✓ |
| (ii) set and test safety system control pressures prior to regulator | | ✓ | ✓ |
| (iii) check regulator is operating in full control prior to opening outlet valves | | ✓ | ✓ |
| (iv) check set points of regulators under flow conditions (simulation can be used) | | ✓ | ✓ |
| (v) check all components function to MIs & remove a commissioning strainer (OQ) | | ✓ | ✓ |
| 14. **set points – metering pressure** (**twin stream installation, IGE/GM/8 Part 1**) | | | |
| (i) set active regulator at determined set point | | ✓ | ✓ |
| (ii) set monitor regulator at determined set point | | ✓ | ✓ |
| (iii) set SSV above relief valve set pressure (take into account accuracy of relief valve and SSV to ensure relief valve is not restricted) | | ✓ | ✓ |
| (iv) check SSV set point plus accuracy group tolerance (MIP) does not exceed STP of downstream system | | ✓ | ✓ |
| (v) consider control accuracy at meter when accuracy classes for regulators were selected | | ✓ | ✓ |
| (vi) Functional and operational checks of slam shut and creep relief components | | | ✓ |
| 15. apply labelling | | ✓ | |

| KNOWLEDGE & UNDERSTANDING | REF | I | R |
|---|---|---|---|
| 1. the need for documentation, commissioning reports, request for information from GT and meter designer | | ✓ | ✓ |
| 1a Meter types and selection options | | ✓ | ✓ |
| 2. gas flow, straight length pipe work in the vicinity of the meter | | ✓ | |
| 3. positioning of impulse line take offs | | ✓ | |
| 4. requirements and sizing of impulse take off lines | | ✓ | |
| 5. labelling | | ✓ | |
| 6. Identify ~~cross~~ correct and incorrect use of main equipotential bonding | | ✓ | |
| 7. routine maintenance of meters | | ✓ | |
| 8. Gas cleaning including filtration for all types of meter of MOP ≤ 7 bar | | ✓ | |
| 9. determining routine maintenance of filters and strainers | | ✓ | |
| 9a operational and functional checks of filter, slam shut and creep relief components whilst maintaining a positive pressure | | ✓ | |
| 10. recognition of meter faults | | ✓ | ✓ |
| 11. safety requirements for removal of meters | | ✓ | ✓ |
| 12. hydrostatic testing needed, and the precautions required | | ✓ | ✓ |
| 13. routine maintenance of relief valves and pressure protection devices | | ✓ | |
| 14. determining OP of appliances | | ✓ | |
| 15. GT network standards operating conditions | | ✓ | ✓ |
| 16. determine Meter /Regulator capacity & application is sufficient for connected load | | ✓ | ✓ |
| 17. Regulators and Safety device protection protocol | | ✓ | ✓ |