
EPA Specification Gas Network Craftsperson – Pressure Management



EPA Specification Section 2 – Mapping the Standard

Contacts

This specification has been designed to provide all the advice and guidance you need to prepare yourself and your apprentices for end-point assessment. However, if you have any further questions please contact the EUIAS Help Desk using one of the following:

Help Desk email: enquiries@euias.co.uk

Help Desk telephone: 0121 713 8310

Purpose

The purpose of this section is to introduce the elements of the Standard and the referencing system used by the EUIAS. It provides an 'at-a-glance' view of which parts of the Standard are assessed by which assessment method. The referencing system is used throughout this Specification.

The Standard

The Standard is divided in Knowledge, Skills and Behaviours. It has:

- Core Knowledge
- Core Skills
- Core Behaviours
- Role Specific Skills
- Role Specific Knowledge

Core Knowledge:

CK1 Role specific knowledge company testing, and commissioning procedures needed to establish the condition of gas assets equipment, network infrastructure and the actions needed as a result of the tests. This includes both practical applications and the use of diagnostic techniques and IT systems

CK2 The requirements of the Gas Safety (Management) Regulations as relevant to their role, this being Supported through company specific procedures involved in the practical installation and maintenance of gas network assets

CK3 The requirements of Health and safety standards and regulations, and environmental and regulatory requirements, including: The Health and Safety at Work Act, the Environmental Protection Act, Dangerous Substances Explosive Atmospheres Regulations, The ATEX Directives, The Management of Health and Safety regulations, PUWER, Working at Height Regulations, Confined spaces Regulations, COSHH, PPE Regulations, RIDDOR, Noise at work regulations, Control of Asbestos regulations and the Manual Handling Operations Regulations

CK4 Company maintenance practices, processes and procedures associated with gas network systems, controls and equipment

CK5 Gas engineering and mechanical and /or electric principles and processes that underpin the location, diagnosis and rectification of faults

CK6 Company policies, procedures and engineering instructions as specified by the employer

Core Skills:

CS1 Undertake and document risk assessments in accordance with company procedures

CS2 Comply with workplace health, safety & environmental practices and regulations, maintaining a safe and secure working environment

CS3 Follow engineering instructions and company procedures to complete tasks safely and on-time

CS4 Undertake inspection and examination of network assets in order to maintain the safe and compliant operation of the network to ensure the integrity, safety and security of supply

CS5 Maintain and/or install gas engineering assets, components and associated equipment

CS6 Install, test, purge and commission gas network assets

CS7 Operate powered tools and equipment, such as drills, angle grinders, brush cutters and shot blasting equipment as required for network maintenance operations

CS8 Use approved gas detection equipment to ensure safe environment

CS9 Use Personal Protective Equipment (PPE) and safety equipment in accordance with manufacturer's instructions and employer policy

CS10 Obtain and analyse asset condition and performance information to facilitate decision making

CS11 Identify, organise and use resources effectively to complete tasks, with consideration for cost, quality, safety, security and environmental impact

CS12 Through risk assessment, minimise risks to life, property and the environment when undertaking work activities

CS13 Accurately record job information, complete job reports and process

CS14 Liaise with gas consumers, statutory agencies and members of the public in order to ensure their safety

CS15 Accurately update company systems with details of work undertaken

Core Behaviours

CB1 Display a self-disciplined, self-motivated approach

CB2 Deliver a polite, courteous professional service to all customers, stakeholders and members of the public as appropriate

CB3 Demonstrate and apply a safety-first approach

CB4 Accept accountability when undertaking individual and team tasks

CB5 Follows instruction from appropriate supervision, and makes decisions when required

CB6 Quality-focussed and professional in work and in personal standards

CB7 Recognise personal limitations and seek advice from managers, experts and specialists when required

CB8 Accepts responsibility for work undertaken

CB9 Receptive to the needs and concerns of others, especially where related to diversity and equality

CB10 Committed to carrying out and recording Continued Professional Development necessary to maintain and enhance competence

CB11 Exercises responsibilities in an ethical manner

CB12 Interacts with people and approaches work activities in a way that contributes to continuous self improvement

Role Specific Skills – Pressure Management

NMCPM1 Apply mechanical theories and principles for example thermo dynamics and laminar flow theories, in order to carry out diagnostic fault finding procedures

NMCPM2 Carry out remote pressure monitoring and control on the gas network

NMCPM3 Inspect and monitor mechanical systems and equipment in order to ensure safety and suitability for service

NMCPM4 Undertake corrosion inspection activities

NMCPM5 Maintain, dismantle and repair mechanical equipment and components

NMCPM6 Test mechanical equipment and systems to ensure integrity, safety and security of supply

NMCPM7 Assist in installing mechanical systems and equipment

NMCPM8 Install, maintain and dismantle a wide range of complex plant, machinery and components including pressure regulators, safety devices, system protection devices and monitoring equipment

NMCPM9 Consult design specifications to analyse and calculate mechanical system parameters and rectification procedures

NMCPM10 Interpret plans and drawings to install, position or re-locate mechanical equipment and components

NMCPM11 Test, service and repair mechanical equipment as part of planned preventative maintenance and/or reactive maintenance programmes

NMCPM12 Install mechanical components including regulators, filters, valves, compressor equipment

NMCPM13 Maintain mechanical components including regulators, filters, valves, compressor equipment

NMCPM14 Apply pressure reduction techniques to assist in dealing with gas emergencies

NMCPM15 Inspect and maintain condition monitoring equipment

NMCPM16 Locate and avoid underground plant and equipment prior to and whilst undertaking activities

NMCPM17 Install signing, lighting and guarding system

Role Specific Knowledge – Pressure Management

NMCPM18 Understand how to apply diagnostic fault finding procedures to pressure control equipment

NMCPM19 Understand how to operate the systems and processes used for remote pressure monitoring & control of the gas network

NMCPM20 Understand the permitry requirements when maintaining or configuring pressure control equipment

NMCPM21 Understand the company specific and legislative requirements for the inspection and monitoring of mechanical pressure control systems and equipment

NMCPM22 The requirements for corrosion inspection activities in line with the requirements of both the pressure systems safety regulations and pipeline safety regulations

NMCPM23 The hazards associated with working on systems that contain pressurised gas

NMCPM24 The security of gas supply implications when undertaking pressure control work operations

NMCPM25 The implications of the pressure systems safety regulations when assessing the suitability of equipment to be used

NMCPM26 The safety processes to be followed when planning to access pressure control equipment

NMCPM27 The New Roads and Street Works Act requirements for the provision of signing, lighting and guarding when working in or adjacent to the public highways

The Standard mapped to the assessment methods:

Knowledge and Skills Assessment:	Core knowledge (CK2; CK3; CK5)
	PLUS Selected core skill (CS12)
	PLUS Selected Pressure Management - Specific knowledge (NMCPM18; NMCPM19; NMCPM20; NMCPM21; NMCPM22; NMCPM23; NMCPM24; NMCPM25; NMCPM27)
	PLUS Selected Pressure Management - Specific skills (NMCPM4; NMCPM16; NMCPM17)
Technical Interview underpinned by the logbook:	Core knowledge (CK1; CK4; CK6)
	Session 2 – Focussing on the on-programme evidence in the logbook (CK1; CK4; CK6)
	Core skills (CS1; CS2; CS3; CS4; CS5; CS6; CS7; CS8; CS9; CS10; CS11; CS13; CS14; CS15)
	Session 1 - Focussing on the practical task evidence in the logbook (CS1; CS2; CS3; CS4; CS5; CS6; CS7; CS8; CS9; CS10; CS11; CS13)
	Session 2 - Focussing on the on-programme evidence in the logbook (CS1; CS2; CS3; CS14; CS15)
	Core behaviours (CB1; CB2; CB3; CB4; CB5; CB6; CB7; CB8; CB9; CB10; CB11; CB12)
	Session 1- Focussing on the practical task evidence in the logbook (CB1; CB3; CB4; CB5; CB6; CB8)
Session 2 – Focussing on the on-programme evidence in the logbook (CB2; CB4; CB7; CB9; CB10; CB11; CB12)	
Specified knowledge and skills:	
Session 1 – Focussing on the practical task evidence in the logbook (NMCPM1; NMCPM2; NMCPM3; NMCPM5; NMCPM7; NMCPM8; NMCPM10; NMCPM11; NMCPM12; NMCPM26)	
Session 2 - Focussing on the on-programme evidence in the logbook (NMCPM3; NMCPM6; NMCPM8; NMCPM9; NMCPM10; NMCPM11; NMCPM12; NMCPM13; NMCPM14; NMCPM16; NMCPM20)	