

Level 3 EPA Gas Engineering Operative



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 0779922 option 2

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 Standard

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

- Core Knowledge
- Core Skills
- Behaviours
- Technical skills
- Technical knowledge

Core Knowledge:

CK1 Current Health, Safety and Environmental legislation and regulations applicable to work in the gas industry

CK2 Safe gas and electrical installation, commissioning, decommissioning and/or ongoing service and repair procedures of gas installations and appliances needed to establish the safe operation of the equipment and installation in accordance with industry standards

CK3 Gas and electrical theories and procedures involved in the practical installation, commissioning, decommissioning and/or ongoing service and repair of gas installations, appliances and associated equipment

CK4 Relevant electrical/mechanical principles and how they are applied in work processes and procedures

CK5 Up to date energy efficiency advice and guidance to be given to the customer

CK6 Product knowledge to be able to discuss and advise the customer

CK7 Current regulatory compliance, current Gas Safety (Installation and Use) Regulations and the current Electricity at Work Regulations

CK8 Company rules, policies and procedures as defined by the employer

Core Skills:

CS1 Undertake and document rigorous risk assessments to ensure the safety of all affected by the work activities

CS2 Take personal responsibility for maintaining safety standards and achieving job objectives

CS3 Use and maintain tools, equipment and personal protective equipment (PPE) in a safe and appropriate manner

CS4 Safe gas and electrical installation, commissioning, decommissioning and or ongoing service and repair of gas installations and appliances needed to establish the safe operation of the equipment and installation accordance with industry standards

CS5 Work with focus and clear purpose in all conditions and locations, covering business requirements, including lone working and safely adapt working methods to reflect changes in working environments

CS6 Work on customer premises and or property showing appropriate care and respect whilst focusing on safety

CS7 Use a variety of appropriate and effective communication methods to interact with customers and others to give

and or receive information accurately, in a timely and positive manner in order to deliver the best possible service

CS8 Identify where situations or conditions are to unsafe standards and take appropriate actions within your range of competency

CS9 Achieve individual and team tasks which align to overall work objectives, be self-motivated and disciplined in the approach to work activities

CS10 Work effectively and efficiently with people from different trades/disciplines, backgrounds and expertise to accomplish an activity in a safe manner, on time, to meet customer expectations

CS11 Identify, organise and use resources effectively and sustainably to complete the task with consideration to cost, quality, safety, security and environmental impact

CS12 Be able to read and follow technical documentation associated with equipment and installation requirements

Behaviours:

B1 Ensure personal wellbeing and the safety of customers and others is a priority

B2 Be risk aware showing the desire to reduce risks through systematic monitoring and checking information and the strict compliance with appropriate regulations and normative documents

B3 Demonstrate an awareness of how the work impacts on others in the work environment

B4 Confidently deliver a polite, courteous, professional service to all customers and members of the public whilst safeguarding customer welfare and recognising vulnerability, equality and diversity

B5 Undertake Continuous Professional Development to enhance knowledge and skills to maintain competence

B6 Recognise personal and professional limitations and seek appropriate advice when necessary

B7 Display self-discipline and self-motivated approach

B8 Exercise responsibilities in an ethical manner

Technical knowledge and skills must be evidenced in either a domestic or non-domestic setting carrying out service and repair and/or installation

Technical Knowledge (TK)

TK1 Electrical awareness and be able to carry out safe isolation and essential electrical safety checks

TK2 Combustion, combustion analysis, gas properties, carbon monoxide (CO), and types of burners

TK3 Flues and ventilation principles

TK4 The necessary safety checks following gas work on an appliance (regulation 26/9)

TK5 The range and suitability of appliances

TK6 The statutory and normative documentation including building regulations, water regulations and electrical regulations

TK7 Emergency procedures, including gas escapes, report of fumes and for unsafe situations

TK8 A knowledge and understanding of four appliances

TK9 System design, location, controls, flue types for appliances and smart control

TK10 An awareness of green technologies

TK11 The properties of Liquid Petroleum Gas (LPG)

TK12 An awareness of fuel storage – tanks and bottles (Liquid Petroleum Gas - LPG)

Technical Skills (TS)

TS1 Carry out safe isolation essential electrical safety checks

TS2 Carry out flue testing

TS3 Undertake the necessary safety checks following gas work on an appliance (regulation 26/9)

TS4 Work in compliance with statutory and normative documentation including building regulations, water regulations and electrical regulations

TS5 Access and comply with technical guidance, bulletins and safety alerts e.g. Gas Industry Unsafe Situations Procedures (GIUSP)

TS6 Demonstrate tightness testing, purging and relight procedures on gas installations

TS7 Demonstrate pipework installations/pipework skills, pressure and flow/pipework sizing, meter installations

TS8 Demonstrate ambient air testing/carbon monoxide/dioxide atmosphere testing

TS9 Identify gas safety controls and prove their safe operation

TS10 Complete records and maintain records accordingly

TS11 Identify faults and take the appropriate action

TS12 Undertake the installation and/or repair and maintenance of four appliances

TS13 Reinstate following completion of works cleaning up and making good

Gas Engineering Standard: EPA Method Summary

 EPA Method applies to criteria number

Core Knowledge (CK)									Core Skills (CS)												
EPA Method	CK Criteria Number								EPA Method	CS Criteria Number											
Worklog Review	1	2	3	4	5	6	7	8	Worklog Review	1	2	3	4	5	6	7	8	9	10	11	12
Competency Test	1	2	3	4	5	6	7	8	Competency Test	1	2	3	4	5	6	7	8	9	10	11	12
Knowledge Assessment	1	2	3	4	5	6	7	8	Knowledge Assessment	1	2	3	4	5	6	7	8	9	10	11	12
Gas Safe	1	2	3	4	5	6	7	8	Gas Safe	1	2	3	4	5	6	7	8	9	10	11	12

Behaviours (B)								
EPA Method	B Criteria Number							
Worklog Review	1	2	3	4	5	6	7	8
Competency Test	1	2	3	4	5	6	7	8
Knowledge Assessment	1	2	3	4	5	6	7	8
Gas Safe	1	2	3	4	5	6	7	8

Technical Knowledge (TK)												
EPA Method	TK Criteria Number											
Worklog Review	1	2	3	4	5	6	7	8	9	10	11	12
Competency Test	1	2	3	4	5	6	7	8	9	10	11	12
Knowledge Assessment	1	2	3	4	5	6	7	8	9	10	11	12
Gas Safe	1	2	3	4	5	6	7	8	9	10	11	12

Technical Skills (TS)													
EPA Method	TS Criteria Number												
Worklog Review	1	2	3	4	5	6	7	8	9	10	11	12	13
Competency Test	1	2	3	4	5	6	7	8	9	10	11	12	13
Knowledge Assessment	1	2	3	4	5	6	7	8	9	10	11	12	13
Gas Safe	1	2	3	4	5	6	7	8	9	10	11	12	13

The standard mapped to the assessment methods:

Knowledge Assessment:	Selected Core knowledge (CK1, CK3, CK4, CK7)
	All Technical Knowledge (TK)
Gas Safe® Registration	Selected Core Knowledge (CK1, CK2, CK3, CK7)
	Selected Core Skills (CS1, CS3, CS4, CS8)
	All behaviours (B)
	Selected Technical Knowledge (TK2, TK3, TK4, TK5, TK7, TK9)
	Selected Technical Skills (TS1, TS2, TS3, TS4, TS5, TS6, TS7, TS10, TS12, TS13)
Competency Test	Selected Core Knowledge (CK2, CK5, CK6, CK8)
	Selected core skills (CS1, CS2, CS4, CS5, CS6, CS7, CS8, CS11, CS12)
	All Technical Skills (TS)
Work Log Review and Work Log Interview	ALL Core Knowledge
	ALL Core Skills
	ALL Behaviours
	ALL Technical Knowledge
	ALL Technical Skills