Level 3 EPA Gas Engineering Operative

EPA Specification Section 7 – Supporting documents

- Gateway Eligibility Report
- Cohort Registration Form
- Practice Knowledge Assessment, with Answer Scheme
- Four Appliance Categories – Amplication and Guidance
- Work log Evidence Mapping Record

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

EUIAS Level 3 End-point Assessment for Gas Engineering Operative

Gateway Eligibility Report

(Standard Version: ST0155 version 1, 2016; Assessment Plan Version: ST0155/AP02)

Apprentice's details

Apprentice's name:	Apprentice's job title:
Name of Employer:	Name of Training provider:
Employer representatives present:	Training provider representatives present:
Apprenticeship start date:	Apprenticeship on-programme end date:
Gateway meeting date:	
Has the apprentice taken any part of the end-point assessment for this apprenticeship standard with any other End Point Assessment Organisation?	Y / N
If "Yes" please give details:	

Eligibility requirements for GEO

The apprentice must confirm their achievement of the following:

Eligibility requirement	Achieved by the apprentice? Y/N	Evidence (scans of certificates MUST be included)
Achieved English level 2		
Achieved maths level 2		

Gateway Eligibility Declaration

The apprentice, the employer and the training provider must sign this form to confirm that they understand and agree to the following:

10. The apprentice has completed the required on-programme elements of the apprenticeship and is ready for end-point assessment with EUIAS
11. The apprentice will only submit their own work as part of end-point assessment
12. All parties agree that end-point assessment evidence may be recorded and stored by EUIAS for quality assurance purposes
13. The apprentice has been on-programme for a minimum duration of 18 months
14. The apprentice has achieved the mathematics and English requirements as detailed in this document
15. The apprentice, if successful, gives permission for EUIAS to request the apprenticeship certificate from the ESFA who issue the certificate on behalf of the Secretary of State
16. The apprentice has been directed to the EUIAS Appeals Policy and Complaints Policy
17. The employer/training provider has given the EUIAS at least three months' notice of requesting this EPA for this apprentice
18. If the Gateway Eligibility Report is not completed in full, meeting all requirements, and submitted to EUIAS, the end-point assessment cannot take place

Signed on behalf of the employer (print name):	Signature:	Date:
Signed on behalf of the training provider (print name):	Signature:	Date:
Apprentice's name (print):	Signature:	Date:

EUIAS use only:	
EUIAS Sign off:	
Comments/actions:	

Cohort Registration Form (v2)

Section 1 Main Details

Standard and AP number	
Number in cohort, by pathway	
Cohort start date	
Expected Gateway date	

Employer Name	
Lead Provider Name*	

* (this may be the employer).

Employer Contact Name	
Employer Contact Details (address, phone and email)	
Employer Reference Number (ERN)	
Lead Provider Contact Name	
Lead Provider Contact Details (address, phone and email)	
Lead Provider Reference Number (UKPRN)	
Date of Service Level Agreement between EUIAS and Lead Provider (EUIAS to complete)	

EUIAS Unique Cohort Identifier (UCI) Number:

Section 2 Service Details

The scope of the end-point assessment service is listed in Section 4 of the Service Level Agreement agreed with the lead provider.

EUIAS end-point assessment policies can be found at www.euias.co.uk

The agreed pricing is detailed below.

End-point Assessment Price per apprentice	Stage 1 - Registration	
	Stage 2 – Gateway / End-point	
	TOTAL	

Cancellation price for EPA element 1 (specify):	£
Cancellation price for EPA element 2 (specify):	£
Cancellation price for EPA element 3 (specify):	£

Re-sit / re-take price for EPA element 1:	£
Re-sit / re-take price for EPA element 2:	£
Re-sit / re-take price for EPA element 3:	£

Cancellation charges (these are in line with section 10.9 of the Service Level Agreement)	
Less than 48 hours	Payment in full for the specific end-point assessment activity plus any travel and subsistence costs incurred and any additional assessment(s) that cannot be rescheduled due to the assessment plan stage requirements
More than 48 hours but less than 5 days	50% payment of the full payment for the specific end-point assessment activity and any travel and subsistence costs incurred that cannot be cancelled
Greater than 6 days but less than 10 days	25% payment in of the full payment for the specific end-point assessment activity and any travel and subsistence costs incurred that cannot be cancelled
More than 10 days	No additional charge for the specific end-point assessment activity
Other (if applicable)	

Additional Service Charges (insert details as applicable):

EUIAS – supplied assessors/technical experts: Assessors supplied by employer	£

Invigilation:	£ (per invigilator)

EUIAS approval of additional/alternative assessment facilities:	£ (per site)

Learner/employer workshops, technical briefings etc:	£ (per briefing, plus travel expenses)

Section 3 - Account Registration for Finance and Invoicing (if not provided in a previous Cohort Registration Form)

To be completed by the main provider (the organisation on the Register of Apprenticeship Training Providers (RoATP), that will be contracting with the EUIAS on the employer's behalf).

Use details already provided: **Yes / No**

Or complete the information below:

Lead Provider Name			
Address and Postcode			
Contact Name		Telephone No.	
Email Address		Company No	
Email Address for Statement		VAT no.	

Invoice Details – if different from above

Contact Name		Telephone No.	
Invoice Address and Postcode			

Account Payable Details – if different from above

Contact Name		Telephone No.	
Invoice Address and Postcode			

Purchase order number/details for Stage 1 payment

Section 4 - Declarations

Employer Declaration	
This is to confirm that the [employer] has selected the Energy & Utilities Independent Assessment Service (EUIAS) as their end-point assessment organisation for the stated apprenticeship standard and cohort, and that the details supplied in this form are correct.	
Employer Name	
Contact Name:	
Job Title:	
Signature:	
Date:	

Lead Provider Declaration (this may be the employer)	
This is to confirm that the [Lead Provider] is approved on the Register of Apprenticeship Training Providers and will contract with and pay Energy & Utility Skills Limited (trading as Energy and Utilities Independent Assessment Service) on behalf of the employer for the delivery of end-point assessment. This is also to confirm that the details supplied in this form are correct.	
Lead Provider Name	
Contact Name:	
Job Title:	
Signature:	
Date:	

Gas Engineering Operative

Practice Knowledge Assessment – paper A

Forename (s)	
Surname (s)	
Date	

Duration: 60 minutes

Instructions

- Use black or blue ink or black ball-point pen
- Fill in the boxes at the top of this page
- There are 40 questions, you should attempt all of them
- Mark your answer with an ☒ - if you wish to change your answer please put a line through ~~☒~~ and re-select with another ☒
- Only one answer per question allowed

Sample:

London is the capital of….

Example Question		
London is the capital of…		
Possible answers		**Answer**
a)	Wales	~~X~~
b)	Scotland	
c)	Northern Ireland	
d)	England	X

Advice

- Do not spend too long on one question
- Read all questions thoroughly before starting your examination
- Mobile phones and watches must not be taken into the examination room. The examination must be conducted under examination conditions
- Cheating: you will be asked to leave the examination room and will be classified an automatic fail and referred to your employer

Do not turn over the page until the invigilator instructs you to.

Question 01		
In a workplace who is responsible for maintaining health and safety?		
Possible answers		**Answer**
a)	The Health and Safety Executive	
b)	Everyone	
c)	Everyone except contractors	
d)	The employer	

Question 02		
Which of the following regulations specifically places a responsibility on organisations for reporting safety related incidents?		
Possible answers		**Answer**
a)	Provision and Use of Working Equipment Regulations	
b)	Gas Safety Management Regulations	
c)	RIDDOR	
d)	Gas Safety Regulations	

Question 03		
Under the Health & Safety at Work Act (1974) the employee has a duty to:		
Possible answers		**Answer**
a)	Read notice boards or bulletins	
b)	Complete jobs to time and price	
c)	Ignore information from supervisors and management	
d)	Maintain a safe working environment	

Question 04		
Where a load is too heavy for you to move on your own. What should you do?		
Possible answers		**Answer**
a)	Try to lift it using the correct methods	
b)	Although not trained, use a forklift truck	
c)	Ask the customer to help you	
d)	Do not move the load	

Question 05		
When removing an asbestos gasket, what is the minimum specification of the dust mask being used?		
Possible answers		**Answer**
a)	FFP1	
b)	FFP2	
c)	FFP3	
d)	FFP4	

Question 06		
Which of the following outlines the scope of IGE/UP/1b?		
Possible answers		**Answer**
a)	Pressure at primary meter outlet $\leq$21mbar, Pipework diameter $\leq$35mm, meter capacity 6m^3/hr	
b)	Pressure at primary meter outlet $\leq$75mbar, Pipework diameter $\leq$35mm, meter capacity $\leq$16m^3/hr	
c)	Pressure at primary meter outlet $\leq$21mbar, Pipework diameter $\leq$28mm, meter capacity $\leq$16m^3/hr	
d)	Pressure at primary meter outlet $\leq$21mbar, Pipework diameter $\leq$35mm, meter capacity $\leq$16m^3/hr	

Question 07		
When tightness testing an installation, why must the drop down lid of a cooker be raised to open?		
Possible answers		**Answer**
a)	To ensure the SSOV is in the open position	
b)	To ensure the SSOV is closed	
c)	To ensure the SSOV has operated	
d)	To prepare for purging	

Question 08		
Which of the following locations would require gas pipework to be identified as such?		
Possible answers		**Answer**
a)	Domestic premises	
b)	Commercial premises	
c)	Both domestic and commercial premises	
d)	Any premises where people sleep	

Question 09		
When checking the operating pressure at a property what should be used to do this?		
Possible answers		**Answer**
a)	Three rings on a cooker hotplate	
b)	Four rings on a cooker hotplate	
c)	The largest gas burning appliance	
d)	All appliances must be operating	

Question 10		
When using a "U" gauge, one limb is reading 20mbar and the other is reading 16mbar, what is the actual pressure reading?		
Possible answers		**Answer**
a)	17mbar	
b)	18mbar	
c)	19mbar	
d)	20mbar	

Question 11		
Before connecting a gas appliance to the electrical supply via a 13amp plug, what should be used to ensure the properties wiring is correct?		
Possible answers		**Answer**
a)	A lamp tester	
b)	A Martindale	
c)	A socket tester	
d)	A multi-meter	

Question 12		
BS7671 covers the wiring regulations, what is the latest IET edition of this?		
Possible answers		**Answer**
a)	16th Edition	
b)	17th Edition	
c)	18th Edition	
d)	19th Edition	

Question 13		
What is the maximum distance an earth bond can be positioned away from the outlet of a domestic gas meter?		
Possible answers		**Answer**
a)	300mm	
b)	600mm	
c)	900mm	
d)	1200mm	

Question 14		
Who shall a person be registered with in order to perform work on domestic gas installations?		
Possible answers		**Answer**
a)	CORGI	
b)	Gas safety	
c)	Gas safe	
d)	The Health and Safety executive	

Question 15		
Gas Appliances and meters are specifically covered under which regulation?		
Possible answers		**Answer**
a)	Gas Safety Regulations	
b)	Pipeline Safety Regulations	
c)	Gas Safety (Management) Regulations	
d)	Gas Safety (Installation and Use) Regulations	

Question 16		
What is the product of incomplete combustion that may lead to serious illness or death?		
Possible answers		**Answer**
a)	Carbon Dioxide	
b)	Carbon Trioxide	
c)	Carbon onoxide	
d)	Carbon Monoxide	

Question 17		
For every 1m^3 of Natural Gas burned, approximately how much air would need to be supplied for complete combustion?		
Possible answers		**Answer**
a)	2m^3	
b)	10m^3	
c)	5m^3	
d)	20m^3	

Question 18		
Deposits of what material could indicate incomplete combustion on an appliance?		
Possible answers		**Answer**
a)	Soot	
b)	Rust	
c)	Dust	
d)	Water	

Question 19		
Which of the following is the chemical equation for the complete combustion of natural gas?		
Possible answers		**Answer**
a)	$CH_4 + O_2 = CO_2 + 2H_2O$	
b)	$CH_4 + O_2 = CO_2 + H_2O$	
c)	$2CH_4 + O_2 = CO_2 + 2H_2O$	
d)	$CH_4 + 2O_2 = CO_2 + 2H_2O$	

Question 20		
A ventilator for an open flued boiler has a free area of $35cm^2$ What is the maximum net heat input of the boiler for this amount of ventilation?		
Possible answers		**Answer**
a)	7kW	
b)	10kW	
c)	14kW	
d)	16kW	

Question 21		
When ventilation passes through a cavity wall what must it contain?		
Possible answers		**Answer**
a)	A fly screen	
b)	Baffles to prevent draughts	
c)	A closable grille	
d)	An uninterrupted duct	

Question 22		
Where a flue-less appliance is fitted in a room, what must the room contain?		
Possible answers		**Answer**
a)	An openable window or door to outside	
b)	An extractor fan or cooker hood	
c)	A ventilator of cross sectional area 100cm^2	
d)	An approved CO alarm	

Question 23		
Where a flue is fitted in a void what shall be provided?		
Possible answers		**Answer**
a)	Inspection hatches every 3 metres	
b)	One inspection hatch minimum 300mm x 300mm	
c)	Ventilation and a CO detector	
d)	A means for full visual inspection of the flue	

Question 24		
Which of the following is not covered under the gas (Installation and Use) regulations?		
Possible answers		**Answer**
a)	Hired portable heaters	
b)	Portable or mobile appliances	
c)	Natural gas meter	
d)	Fixed gas appliances	

Question 25		
The gas safety regulations regulation 3 states that no person shall carry out any work in relation to a gas fitting or gas storage vessel unless they are what?		
Possible answers		**Answer**
a)	Over 18 years of age	
b)	Competent	
c)	Working for a company registered with Gas Safe Register	
d)	ACS certificated	

Question 26		
Where work has been carried out on a gas appliance, which of the following checks in accordance with regulation 26/9 of the gas installation and use regulations must be carried out immediately after the work?		
Possible answers		**Answer**
a)	Tightness test the whole installation	
b)	A visual inspection of the pipework installation	
c)	Check the flame picture	
d)	Check its operation so as to ensure its safe functioning	

Question 27		
A gas appliance installed in a bathroom must be:		
Possible answers		**Answer**
a)	Room sealed	
b)	Open flued	
c)	Fan flued	
d)	Serviced regularly	

Question 28		
Which of the following would be deemed an at risk situation?		
Possible answers		**Answer**
a)	Spillage of products of combustion	
b)	Cooker without a safety chain	
c)	Gas fire fitted on a carpet with signs of scorching	
d)	Balanced flue appliance with no terminal guard	

Question 29		
Which of the following would be deemed an immediately dangerous situation?		
Possible answers		**Answer**
a)	Spillage of products of combustion	
b)	Cooker without a safety chain	
c)	Gas fire fitted on a carpet with signs of scorching	
d)	Balanced flue appliance with no terminal guard	

Question 30		
Where an immediately dangerous situation is encountered what must the Gas Safe registered person do?		
Possible answers		**Answer**
a)	Disconnect the appliance and label it	
b)	Turn off the appliance and apply a warning label	
c)	Turn off the appliance, and attach a danger do not use warning label	
d)	Disconnect and seal and attach a danger do not use warning label	

Question 31		
Which of the following is **NOT** a classification used under the gas industry unsafe situations procedures?		
Possible answers		**Answer**
a)	At Risk	
b)	Not to Current Standards	
c)	Immediately dangerous	
d)	AR turning off the supply will not remove the risk	

Question 32		
When visually inspecting gas appliances which of the following should be included, this is where the gas supply has been interrupted following a pipework alteration?		
Possible answers		**Answer**
a)	The working pressure of each appliance is recorded	
b)	All flame supervision devices are tested to ensure they shut off and seal	
c)	All consumer appliance controls are checked for safe and correct operation	
d)	The correct operation of any Atmospheric Sensing Device is confirmed	

Question 33		
This is a self sealing valve which is operated when a hose connection is inserted in to it. What is it called?		
Possible answers		**Answer**
a)	Ball valve	
b)	Restrictor valve	
c)	A fire pedestal elbow	
d)	Cooker bayonet or micropoint	

Question 34		
This control is electrically operated and when energised allows the gas to flow. They can be fitted on supply pipes to appliances or are integral to the gas appliance. What is it?		
Possible answers		**Answer**
a)	A Solenoid valve	
b)	A safety shut off valve	
c)	Thermostat	
d)	Gas tap or cooker tap	

Question 35		
What is the maximum operating time for a thermo-electric flame supervision device on a cooker hotplate?		
Possible answers		**Answer**
a)	50 seconds	
b)	60 seconds	
c)	90 seconds	
d)	120 seconds	

Question 36		
This control is connected to a flame supervision device and is used to generate a small electrical current when heated by a flame. What is it?		
Possible answers		**Answer**
a)	Atmosphere sensing device	
b)	Thermo electric valve	
c)	Thermocouple	
d)	Vapour pressure valve	

Question 37		
This appliance uses a secondary heat exchanger to recover energy from the latent heat contained within the products of combustion. What is this type of appliance called?		
Possible answers		**Answer**
a)	Combination Boiler	
b)	Condensing Boiler	
c)	System Boiler	
d)	Compensating boiler	

Question 38		
What is the minimum distance a LPG tank should be installed from a property without a fire wall?		
Possible answers		**Answer**
a)	1.5 metres	
b)	2.0 metres	
c)	2.5 metres	
d)	3.0 metres	

Question 39		
Which of the following with regard to the installation and siting of Propane cylinders is correct?		
Possible answers		**Answer**
a)	Must be sited a minimum of 500mm from an openable window	
b)	They cannot be sited inside the property	
c)	Where sited, they must have at least 15 minutes fire resistance	
d)	They should be a 1 metre away from drain, gully or cellar openings	

Question 40		
On an LPG system, this device may be re-set by the gas user if it trips out and shuts off the gas supply, what is it called?		
Possible answers		**Answer**
a)	PRV	
b)	ECV	
c)	OPSO	
d)	UPSO	

End of Practice Knowledge Assessment

Practice Knowledge Assessment

Answer scheme

Question	Answer	Question	Answer
1	B	21	D
2	C	22	A
3	D	23	D
4	D	24	B
5	C	25	B
6	D	26	D
7	A	27	A
8	B	28	C
9	C	29	A
10	B	30	D
11	C	31	B
12	C	32	C
13	B	33	D
14	C	34	A
15	D	35	C
16	D	36	C
17	B	37	B
18	A	38	D
19	D	39	B
20	C	40	D

ANNEX 2: Four Appliance Categories - Amplification & Guidance

Appliances can include, but are not limited to, the range of appliance categories listed below. Appliances listed here can be for the alternative fuels - Natural Gas or LPG. These are the most common categories that are in use across gas engineering roles:

Appliance	ACS Code	Comment
Central Heating Boilers and Water Heaters	**CENWAT**	Central Heating Boilers and Water Heaters count as TWO appliance categories
Unvented Hot Water Storage	**UHWSS**	This is a non-ACS aligned category and is a stand-alone qualification separate to the ACS scheme. It does still count as an 'appliance' category for the purposes of the gas engineering operative apprenticeship standard.
Ducted Air Heaters	**DAH1**	This appliance type has regional variances in description i.e. Warm Air Units, or Warm Air Heaters
Cookers	**CKR1**	This appliance category covers domestic cooking appliances and derivatives such as ovens and hobs
Space Heaters	**HTR1**	Covers all space heating appliances and gas fires; includes Inset Live Flame Effect, (ILFE,) and Decorative Flame Effect (DFE) installations
Meters	**MET1**	Covers the installation, exchange and removal of gas meters up to $6m^3$ capacity, (U6.) This also covers commissioning and decommissioning meter installations
Domestic Gas Range Cooker/Boiler	**CKHB1**	Covers domestic gas range cookers (such as 'Aga's,) and range cooker-boilers with atmospheric or forced draught burners
Domestic Laundry Appliances	**LAU1**	Install, commission, exchange, disconnect, service, repair and break down of domestic gas laundry appliances

Notes:

1. The Gas Engineering Operative standard requires apprentices to gain certification of competency on four appliance categories.
2. Participation in competency assessments for appliance categories is subject to successful completion of an ACS core gas safety module (CCN1 for Natural Gas or CCLP1 for LPG.)
3. Normally the apprentice employer will state the appliance categories that apply to their business. I.e. a business that concentrates on central heating installation would have no requirement for a gas engineering operative to undertake the CKHB1 category.
4. The training provider may also stipulate the appliance categories against which their learning programme is structured.
5. All appliance categories listed here apply to both Natural Gas and LPG installations.
6. After completion of the apprenticeship, gas engineering operatives must operate for a period of six months before additional categories can be undertaken (as per Industry Standard GN8.)
7. Employers or Apprentices who work on appliance categories other than those listed here should contact EUIAS for consultation on suitability and availability.

Annex 3: Gas Engineering Operative: Domestic Work Log Evidence Mapping Record

This document is to assist the apprentices and the employer or training provider to identify where evidence is present in the work log and to confirm that the apprentice is ready to enter the End Point Assessment process.

Apprentice Full Name	
Apprentice's Employer	
Work Log Evidence Start Date	
Work Log Evidence End Date	

Training Provider: Name of staff providing feedback	

Date of feedback	
Work Log Evidence Feedback	

Action Plan, if the apprentice does not achieve the required work log evidence

On behalf of the training provider or employer* I confirm that the apprentice named below has confirmed their readiness to start their End-Point Assessment process:

Staff Signature		Date signed:
Print Name		

*delete as appropriate

I am the apprentice and I have signed, printed and dated the box below to state that I am ready to enter end-point assessment:

Apprentice's Signature		Date signed:
Apprentice Print Name		

For each of the following Core Knowledge Skills and Behaviours (KSB's) and job specific Skills & behaviours, evidence should be recorded to demonstrate that each criteria has been met and documentation is present in the apprentice's work log. The evidence can be based on direct observations, formative assessment and reviews. Other sources that can be included are certificates of training, job cards and work records, maintenance records, risk assessments and photographs of work place activities, and apprentice journal entries. The evidence cannot include any methods of self- assessment. Where indicated this evidence type could be drawn from the ACS certification (ACS), The competency test (CT) all other evidence being from training (T) or work based (WB) activity as indicated against each criteria. Where WB is identified against any criteria, at least one piece of evidence must be from the workplace. **ONE** piece of evidence could be used to satisfy multiple criteria. The criteria is as listed in the published assessment plan, the evidence boxes should indicate where the criteria can be found in the apprentices work-log. It is suggested that a simple coding system be used in the apprentice's work log to achieve this i.e. J1 is Job number 1.

Criteria	Evidence Type	Evidence 1	Evidence 2	Evidence 3	Evidence 4	Evidence 5	Evidence 6
CK1 Current Health, Safety and Environmental legislation and regulations applicable to work in the gas industry	ACS T						
CK2 Safe gas and electrical installation, commissioning, decommissioning and/or on-going 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	ACS CT T WB						
CK3 Gas and electrical theories and procedures involved in the practical installation, commissioning, decommissioning and/or on-going service and repair of gas installations, appliances and associated equipment	ACS T						
CK4 Relevant electrical/mechanical principles and how they are applied in work processes and procedures	T WB						
CK5 Up to date energy efficiency advice and guidance to be given to the customer	CT T						
CK6 Product knowledge to be able to discuss and advise the customer	CT WB						
CK7 Current regulatory compliance, current Gas Safety (Installation and Use) Regulations and the current Electricity at Work Regulations	ACS T						
CK8 Company rules, policies and procedures as defined by the employer	WB CT						
CS1 Undertake and document rigorous risk assessments to ensure the safety of all affected by the work activities	ACS T CT WB						
CS2 Take personal responsibility for maintaining safety standards and achieving job objectives	CT WB						
CS3 Use and maintain tools, equipment and personal protective equipment (PPE) in a safe and appropriate manner	ACS T CT WB						

CS4 Safe gas and electrical installation, commissioning, decommissioning and/or on-going service and repair of gas installations and appliances needed to establish the safe operation of the equipment and installation accordance with industry standards	ACS CT WB T						
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	CT WB						
CS6 Work on customer premises/property showing appropriate care and respect whilst focusing on safety	CT WB						
CS7 Use a variety of appropriate and effective communication methods to interact with customers and others to give/receive information accurately, in a timely and positive manner in order to deliver the best possible service	CT WB						
CS8 Identify where situations or conditions are to unsafe standards and take appropriate actions within your range of competency	CT ACS WB						

CS9 Achieve individual and team tasks which align to overall work objectives, be self-motivated and disciplined in the approach to work activities	WB						
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	WB						
CS11 Identify, organise and use resources effectively and sustainably to complete the task with consideration to cost, quality, safety, security and environmental impact	CT WB						
CS12 Be able to read and follow technical documentation associated with equipment and installation requirements	T CT WB						
TK1 Electrical awareness and be able to carry out safe isolation and essential electrical safety checks	T WB						
TS1 Carry out safe isolation essential electrical safety checks	CT WB						

TK2 Combustion, combustion analysis, gas properties, carbon monoxide (CO), and types of burners	ACS WB CT T						
TK8 Demonstrate ambient air testing/carbon monoxide/dioxide atmosphere testing	ACS WB CT						
TK3 Flues and ventilation principles	T ACS						
TS2 Carry out flue testing	CT WB						
TK4 The necessary safety checks following gas work on an appliance (regulation 26/9)	ACS CT T WB						
TS3 Undertake the necessary safety checks following gas work on an appliance (regulation 26/9)	ACS CT WB						
TS11 Identify faults and take the appropriate action	ACS CT WB						
TS9 Identify gas safety controls and prove their safe operation	ACS CT WB T						
TK5 The range and suitability of appliances	ACS WB T						
TS12 Undertake the installation and/or repair and maintenance of four appliances	ACS CT WB						

TS10 Complete records and maintain records accordingly	CT WB						
TS13 Reinstate following completion of works cleaning up and making good	CT WB						
TK6 The statutory and normative documentation including building regulations, water regulations and electrical regulations	T						
TS4 Work in compliance with statutory and normative documentation including building regulations, water regulations and electrical regulations	ACS CT WB						
TK7 Emergency procedures, including gas escapes, report of fumes and for unsafe situations	ACS T						
TS5 Access and comply with technical guidance, bulletins and safety alerts e.g. Gas Industry Unsafe Situations Procedures (GIUSP)	ACS CT T						
TK8 A knowledge and understanding of four appliances	T						
TS6 Demonstrate tightness testing, purging and relight procedures on gas installations	ACS CT WB						
TK9 System design, location, controls, flue types for appliances and smart controls	ACS T						
TS7 Demonstrate pipework installations/pipework skills, pressure and flow/pipework sizing, meter installations	ACS CT T WB						
TK10 An awareness of green technologies	T						
TK11 The properties of Liquid Petroleum Gas (LPG)	T						
TK12 An awareness of fuel storage – tanks and bottles (Liquid Petroleum Gas - LPG)	T						
Behaviours							
CB1 Ensure personal wellbeing and the safety of customers and others is a priority	WB CT						

CB2 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	WB CT ACS						
CB3 demonstrate an awareness of how the work impacts on others in the work environment	CT WB						
CB4 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	WB CT T						
CB5 Undertake Continuous Professional Development to enhance knowledge and skills to maintain competence	T						
CB6 Recognise personal and professional limitations and seek appropriate advice when necessary	WB ACS						
CB7 Display self-discipline and self-motivated approach	WB T						
CB8 Exercise responsibilities in an ethical manner	WB T						