apprenticeship FRAMEWORK

Plumbing and Heating (Wales)

IMPORTANT NOTIFICATION FOR ALL APPRENTICESHIP STARTS FROM 14 OCTOBER 2016

Modifications to SASW came into effect on 14 October 2016. These changes relate to the **Essential Skills** and **Employer Rights and Responsibilities** requirements of a framework and they **ONLY** apply to **new Apprenticeship starts on, or after, 14th October**. Apprenticeship starts before this date must continue to meet the 2013 SASW requirements for Essential Skills and Employer Rights and Responsibilities.

For more details of the changes and how they will affect new apprenticeship starts, please read the following preface page to the framework document. NB: Please check the "Revising a Framework" section for information on any additional changes that may have been made to this framework.

Latest framework version?

For any previous versions of this framework: <u>www.acwcerts.co.uk/framework_library</u> Issue date: 09 November 2018

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Instructus

Apprenticeship Certification Wales

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Plumbing and Heating (Wales)

Contents

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Framework information

Information on the Issuing Authority for this framework:

Instructus

The Apprenticeship sector for occupations in air conditioning, building services engineering, business and administration, cleaning, customer service, digital/information technology, electro technical, electrical and electronic servicing, enterprise and business support, facilities management, heating and ventilating, housing, human resources and recruitment, industrial relations, leadership and management, marketing and sales (also includes contact centres and third sector), plumbing, property and refrigeration.

Issue number: [5]	This framework includes:
Framework ID: FR04368	Level 2 ⊠ Level 3 ⊠ Level 4-7 □
Date this framework is to be reviewed by: 30/10/2023	This framework is for use in: Wales

Short description

Apprenticeships for occupations in the Plumbing and Heating Industry are designed to meet the industry's competence requirements. At Foundation Level you will be involved in the installation or service and maintenance of plumbing systems e. g. baths, pipework, drains, radiators and heating systems then at Apprenticeship (Level 3) you may work with gas/solid fuel boilers and Environmental Technologies e. g. Solar Thermal; Ground/Air Source Heat Pumps; Water Harvesting etc.

Roles in this framework are likely to fit into Standard Occupational Code (SOC): 53

This Apprenticeship framework document contains two occupation pathways at different levels:

Foundation (Level 2):

• Plumbing

Job roles

... Plumbing and Heating (Wales)

• Plumber

Apprenticeship (Level 3):

• Domestic Plumbing and Heating

Job role

Advanced Plumber

Contact information

Proposer of this framework

Former SummitSkills, the Standards Setting Organisation for the Plumbing and Heating industry, regularly engages with employers, government departments, manufacturers, trade associations and training providers to ensure that this framework document is fit-for-purpose at the time it is issued.

Additional engagement activities include direct consultations by email and telephonewith stakeholders.

Developer of this framework	
Name:	Tony Beecher
Organisation:	Instructus Skills (former Summit Skills)
Organisation Type:	Standard Setting Body
Job Title:	Standards and Portfolio Manager
Phone:	01536 738 631
Email:	skills@instructus.org
Postal address:	Unit 3 Cherry Hall Road North Kettering Business Park Kettering NN14 1UE
Website	www.instructus-skills.org

website.	www.mstructus	Skills.org

Issuing Authority's contact details			
Instructus			
Damian Brown			
01536 738 631			
skills@instructus.org			

Contact Details		
	Who is making this revision	Larisa Puk
	Your organisation	Instructus Skills
	Your email address:	skills@instructus.org

Revising a framework

Why this framework is being revised

This framework has been updated by Instructus Skills in order to amend contact details, and ensure all qualifications are up to date.

Summary of changes made to this framework

This framework has been updated by Instructus Skills in order to amend contact details, and ensure all qualifications are up to date.

Level 3, Pathway 2: Domestic Plumbing & Heating (Gas Fired Warm Air Appliances) is withdrawn due to all qualifications no longer awarded.

Qualifications removed

Level 3 NVQ Diploma in Domestic Plumbing and Heating (Gas Fired Warm Air Appliances) City & Guilds 600/1124/5

Level 3 NVQ Diploma in Domestic Plumbing and Heating (Gas Fired Warm Air Appliances) EAL 600/1451/9

Level 3 NVQ Diploma in Domestic Plumbing and Heating (Gas Fired Warm Air Appliances) BPEC 600/6285/X

Qualifications added

None

Qualifications that have been extended

N/A

Purpose of this framework

Summary of the purpose of the framework

These occupation frameworks are designed to provide new entrants and those seeking progression in their career with the opportunity to develop competencies that are needed to carry out job roles and responsibilities associated with the installation, maintenance, commissioning and servicing of domestic plumbing and heating systems. Including relevant:

- Sustainable Building Best Practices
- Environmental technologies
- Technological requirements and changes
- Statutory and non-statutory regulations and requirements.

It will also contribute towards meeting the skills priorities for Wales, highlighted in the following extract from The National Strategic Skills Audit for Wales; June 2011:

"The Audit highlights the growing importance of technicians, the importance of replacement demands with regard to intermediate jobs in more traditional areas (skilled trades, for example); and the persistence of skills shortages at this level, perhaps seeing only temporary moderation due to the recession. Moreover, skilled trades are expected to be a key part of the skills mix within emerging sectors with high productivity levels, including elements of advanced manufacturing."

Your employers' business could include the installation, service, maintenance and repair of a variety of plumbing systems and equipment, including:

- Showers, Baths, Sinks
- Drainage Pipes, Plastic and Copper Water Pipes and Guttering
- Heating Systems fuelled by Gas, Solar Thermal, Heat Pumps, Oil and Coal.

These products could be installed in domestic, industrial and commercial premises where not only are the technical skills needed but also the skills of customer service and communication.

Successful completion of the Foundation Level framework equips an apprentice with the ability to select and use relevant knowledge, ideas, skills and procedures to complete well defined tasks and address straightforward problems. They include taking responsibility for completing tasks and procedures, and exercising autonomy and judgement subject to overall direction or guidance. Successful candidates then have the option to further develop their skills, knowledge and competence by progressing onto the Apprenticeship (Level 3) framework.

Successful completion of the Apprenticeship (Level 3) framework equips an apprentice with the ability to identify and use relevant understanding, methods and skills to complete tasks and address problems that, while well defined, have a measure of complexity. They include taking responsibility for initiating and completing tasks and procedures as well as exercising autonomy

and judgement within parameters. They also reflect awareness of different perspectives or approaches within an area of study or work.

The following job roles will be covered in the Foundation (Level 2) and Apprenticeship (Level 3) frameworks respectively:

• Plumber Advanced Plumber.

Aims and objectives of this framework (Wales)

The aim of these occupation frameworks is to ensure that the Foundation (Level 2) and Apprenticeship (Level 3) frameworks deliver:

- The skills and knowledge required by the industry to achieve competence
- Job-related skills that will be used in the working environment
- New entrants to replace those retiring or leaving the sector
- Transferable Skills such as problem solving, communication, team working, literacy, numeracy and ICT skills which are a priority for the sector
- Career progression.

Employers have endorsed this programme as it delivers qualified competent employees, and improves productivity and retention.

Where Recognition of Prior Learning (RPL) is applied in relation to competence, knowledge or Essential Skills, the Apprenticeship programme must be tailored to allow the Apprentice to undertake new learning, including learning at a higher level and developing new skills.

Please refer to the Instructus Skills website for more information: www.instructus-skills.org

Entry conditions for this framework

Although there are generally no nationally laid-down minimum entry or previous experience requirements to undertake the Foundation (Level 2) and Apprenticeship (Level 3) frameworks in the Domestic Plumbing and Heating Industry, the following selection criteria may be used as guidance.

The programmes are likely to be suitable for individuals who:

- Have an aptitude for technical subjects and/or are practically minded
- Have an interest in technology
- Can demonstrate an ability to solve practical problems
- Have a portfolio of evidence of practical work experience, non-accredited courses, volunteering or have previously worked in the sector.

A career in this industry will not only reward an apprentice's potential, but also offer opportunities to enhance their technical capability. The industry needs new entrants of appropriate ability and offers a varied and rewarding career in a challenging working environment.

Other selection criteria may include:

- Ability to communicate effectively with a range of people
- Being numerate and literate as a significant amount of paperwork will be involved
- Good colour vision to recognise colour coded wires and components
- Willingness to learn to drive if you don't already have a driving licence as much of the work will require you to drive to customers premises (Insurance requirements may differ per company)
- Ability to work at heights or in confined spaces
- Willingness to work outside and carry out manual handling tasks as some materials and equipment are heavy
- Willingness to work unsociable hours
- Willingness to undergo Disclosure and Barring Service (DBS) check when required
- Willingness to work safely and respectively in support of safeguarding policies.

Examples of formal qualifications that can be used as an indication that an applicant has the potential to progress into and complete either the Foundation (Level 2) or Apprenticeship (Level 3) frameworks can be found in each individual occupation pathway.

No individual should be refused access to an initial assessment on the basis of educational qualifications alone. The ultimate responsibility for selection will rest with the individual employer.

Level 2

Title for this framework at level 2

Foundation Apprenticeship in Plumbing

Pathways for the framework at level 2:

Pathway 1: Plumbing

Level 2, Pathway 1: Plumbing

Description of this pathway

Plumbing - including water-based systems and products (baths, sinks, showers, water heaters/radiators etc) - 94 credits in total.

- 76 credits for the combined (Knowledge 14 credits & Competence 62 credits) qualification
- 18 credits for Essential Skills Wales Communication, Application of Number & IT.

Where Recognition of Prior Learning (RPL) is applied in relation to competence, knowledge or Essential Skills, the Apprenticeship programme must be tailored to allow the Apprentice to undertake new learning, including learning at a higher level and developing new skills.

In order to demonstrate the industry recognised level of competence reflected by this Foundation framework it is expected the minimum duration for its completion will be **no less than 24 months.**

Entry requirements for this pathway in addition to the framework entry requirements

Examples of formal qualifications that can be used as an indication that an applicant has the potential to progress into and complete the Foundation (Level 2) framework in Plumbing are:

- Welsh Baccalaureate Foundation Diploma OR
- Completion of a Welsh Government "Pathway to Apprenticeship" programme in Plumbing OR
- Essential Skills Wales or Key Skills in Communication and Application of Number at Level 2 and ICT at Level 1 OR
- GCSE grade A-D in each of the following:- a communication subject, maths and either a science or technical-based subject OR
- Level 1 GNVQs in relevant vocational/technical subjects OR
- A Level 1 'Access to Building Services Engineering' qualification.

Job title(s)	Job role(s)
Plumber	Works under minimal supervision to complete the installation and maintenance of domestic hot water, cold water, sanitation, drainage, rainwater systems, central heating systems and components.

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

B1 – Level 2 NVQ Diploma in Plumbing and Heating					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	501/1752/X	EAL	76	596	760
B1b	501/1981/3	City & Guilds	76	596	760
B1c	600/5270/3	BPEC	76	596	760

Relationship between competence and knowledge qualifications

This framework requires the completion of one of the combined qualifications B1a, B1b or B1c identified in the combined qualifications section B1 above.

Qualification Title - Level 2 NVQ Diploma in Plumbing and Heating, which has the following units:

Knowledge Units

• Understand how to communicate with others in building services engineering J/602/2482 Unit Credit Value 3

- Understand how to apply environmental protection measures in building services engineering D/602/2486 *Unit Credit Value 4*
- Understand how to apply scientific principles in MES J/602/2496 Unit Credit Value 7

Knowledge Element = 14 credits Competence

Units

- Apply safe working practices in building services engineering working environments T/602/2493 *Unit Credit Value 2*
- Install and maintain domestic plumbing and heating systems D/602/2939 Unit Credit Value 4
- Understand and carry out site preparation, and pipework fabrication techniques for domestic plumbing and heating systems D/602/2682 *Unit Credit Value 10*
- Understand and apply domestic cold water system installation and maintenance techniques H/602/2697 Unit Credit Value 8
- Understand and apply domestic hot water system installation and maintenance techniques F/602/2884 *Unit Credit Value 8*
- Understand and apply domestic central heating system installation and maintenance techniques Y/602/2888 *Unit Credit Value 10*
- Understand and apply domestic rainwater system installation and maintenance techniques F/602/2917 Unit Credit Value 4
- Understand and apply domestic above ground drainage system installation and maintenance techniques J/602/2921 *Unit Credit Value 6*
- Understand and carry out safe working practices in building services engineering J/602/2479 *Unit Credit Value 10*

Competence Element = 62 credits Total

Qualification = 76 credits

For further qualification details refer to: <u>register.ofqual.gov.uk/</u> and search by the relevant qualification.

Essential Skills

An apprenticeship framework must specify as a Welsh certificate requirement the expected achievement levels of Essential Skills in Communication and the Application of Number.

Where Essential Skills qualifications are specified in an apprenticeship framework, the apprenticeship framework must specify the acceptance of a recognised proxy qualification for Communication and Application of Number.

Please note that some **industry-specific** frameworks may have Communication and Application of Number grade/level requirements that are **<u>above</u>** the SASW regular minimum requirements. The exceptions **<u>do not apply</u>** to **industry-specific** minimum entry requirements.

Communication

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of <u>SASW</u> on the <u>gov.wales</u> website. Additional guidance materials can be found on the <u>Knowledge Base</u> section of the <u>ACW</u> website.

Does this framework require Communication achievement <u>above</u> the minimum SASW requirement? YES \boxtimes NO \square

If YES, please state the grade/level required for English and give a brief **REASON** as to why this is required:

Communication Essential Skills required at Level 2

Application of Number

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of <u>SASW</u> on the <u>gov.wales</u> website. Additional guidance materials can be found on the <u>Knowledge Base</u> section of the <u>ACW</u> website.

Does this framework require Application of Number achievement <u>above</u> the minimum SASW requirement? YES 🛛 🗠 NO 🗆

If YES, please state the grade/level required for Maths and give a brief **REASON** as to why this is required:

Application of Number Essential Skills required at Level 2

Inclusion of Digital Literacy (ICT)

Digital Literacy (ICT) is required at Level 1 for this framework.

Please note that there are currently no acceptable proxy qualifications for Digital Literacy (ICT).

For the current **minimum** grade/level requirements, please refer to the most recent version of <u>SASW</u> on the <u>gov.wales</u> website. Additional guidance materials can be found on the <u>Knowledge Base</u> section of the <u>ACW</u> website.

 $\Box \left[\Box \right]$

Progression routes into and from this pathway

Progression routes into this pathway:

Applicants may come from a range of routes including:

- Welsh Baccalaureate Foundation Diploma
- Completion of a Welsh Government "Pathway to Apprenticeship" programme in Plumbing
- Work or work experience
- Training and/or experience which could include a portfolio showing what they have done
- Academic qualification(s) such as three GCSEs grades A-D in each of the following:- a communication subject, maths and either a science or technical-based subject
- Achievement of Essential Skills or Wider KeySkills
- Level 1 GNVQs in relevant vocational/technical subjects
- A Level 1 'Access to Building Services Engineering' qualification.

No individual should be refused access to an initial assessment on the basis of educational qualifications alone. The ultimate responsibility for selection will rest with the individual employer.

Progression routes from this pathway:

On successful completion of the Foundation (Level 2) framework in Plumbing, an apprentice will normally spend time consolidating their roles and practising their skills for a period of time before progressing onto:

- Learning and assessment programmes that lead to relevant Level 3 qualifications and/or an Apprenticeship (Level 3) framework in Domestic Plumbing and Heating OR
- Progress in their career with further training into such job roles as Technician, Designer
 Estimator, Project Manager, Site/Workshop Supervisor/Manager, Chartered Engineer,

Sales Engineer or Commercial Manager.

Also whilst this sector doesn't currently have a 'Licence to Practice' our apprenticeships are recognised as fulfilling the competence requirements of the voluntary card schemes and will enable you to register on a relevant industry recognised Certification Scheme which is evidence that an operative is deemed competent to carry out a particular job role effectively and safely.

Please refer to the Instructus Skills website for more information: <u>www.instructus-skills.org</u>

UCAS points for this pathway:

Employee rights and responsibilities

Please note that for Apprenticeship starts from 14/10/2016 onwards ERR is no longer a **mandatory** requirement in all frameworks.

However, it may still be included in some frameworks and where it is not explicitly stated that ERR is not a requirement then confirmation of an Apprentice's ERR achievement will still remain a requirement for Apprenticeship certification purposes.

Is ERR a requirement for this framework?	YES		NO	\boxtimes
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Delivery and assessment

All apprentices MUST receive an induction to the workplace and to the apprenticeship programme. ERR will be delivered through one of two options, either a checklist or workbook, which will ensure that the apprentice knows and understands each of the nine national outcomes for ERR. The workbook has been designed to enable apprentices to work their way through a series of questions and activities which will bring ERR to life, making the learning more meaningful and long lasting and enhance the employability skills of the apprentice. Having this choice gives apprentices the flexibility to complete the ERR in a way that is most appropriate to them.

The Instructus Skills ERR workbook, available from the Instructus Skills E-learning portal (elearning.instructus.org)

RECOGNITION OF ERR:

On completion of the ERR checklist or workbook, the evidence must be placed in the apprentice's portfolio for quality assurance purposes. The workbook declaration of completion must be signed by the apprentice and training provider, or employer as proof that the ERR element has been completed.

Level 3

Title for this framework at level 3

Apprenticeship (Level 3) in Domestic Plumbing and Heating

Pathways for the framework at level 3:

Pathway 1:	Domestic Plumbing & Heating (Oil-Fired. Solid Fuel or Environmental options)
Pathway 2:	Domestic Plumbing & Heating (Gas Fired Warm Air Appliances) - WITHDRAWN
Pathway 3:	Domestic Plumbing & Heating (Gas Fired Water and Central Heating Appliances)

Level 3, Pathway 1: Domestic Plumbing & Heating (Oil-Fired. Solid Fuel or Environmental options)

Description of this pathway

Domestic Plumbing & Heating (Oil-Fired, Solid Fuel or Environmental Options) - Installing, maintaining, servicing and commissioning domestic plumbing and heating systems. Total credits for this pathway are 80-99 subject to option chosen.

- Minimum 68 credits for the combined (Knowledge 11 credits & Competence 57 credits) qualification
- 12 credits for Essential Skills Wales Communication and Application of Number.

Where Recognition of Prior Learning (RPL) is applied in relation to competence, knowledge or Essential Skills, the Apprenticeship programme must be tailored to allow the Apprentice to undertake new learning, including learning at a higher level and developing new skills.

In order to demonstrate the industry recognised level of competence reflected by this Apprenticeship (Level 3) framework it is expected the minimum duration for its completion will be **no less than 24 months.**

Entry requirements for this pathway in addition to the framework entry requirements

The Plumbing and Heating Industry would normally expect entry into this framework to be for those who have already successfully completed a Foundation (Level 2) framework in Plumbing, or for individuals with the experience and knowledge comparable with the requirements of that programme. The structured learning and assessment programme of this framework will enhance the skills and knowledge of the entrant to the benefit of employers and apprentices alike.

Examples of formal qualifications that can be used as an indication that an applicant has the potential to progress into and successfully complete the Apprenticeship (Level 3) framework in Domestic Plumbing and Heating are:

- Successful completion of a Foundation (Level 2) framework in Plumbing
- Welsh Baccalaureate Intermediate Diploma OR
- Completion of a Welsh Government "Pathway to Apprenticeship" programme in Plumbing OR

- GCSE grade A-C in each of the following:- a communication subject, maths and either a science or technical-based subject OR
- Essential Skills Wales or Key Skills in Communication and Application of Number and IT at Level 2 OR
- Level 2 GNVQs in relevant vocational/technical subjects OR
- Level 2 'Access to Building Services Engineering' qualification.

Job title(s)	Job role(s)
Advanced Plumber (Oil-Fired, Solid Fuel or Environmental)	Completes and oversees work to install, service, maintenance and commission domestic hot & cold water systems and domestic heating and sanitation systems using Oil-Fired, Solid Fuel or Renewable Energy

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

E	B1 – Level 3 NVQ Diploma in Domestic Plumbing and Heating						
	No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value	
	B1a	600/1122/1	City & Guilds	68/87	549- 659	680	
	B1b	600/1252/3	EAL	68/87	549- 659	680	
	B1c	600/6863/	BPEC	68-87	549- 659	680	

Relationship between competence and knowledge qualifications

This framework requires the completion of the combined qualifications B1a, B1b or B1c identified in the combined qualifications section B1 above.

Qualification Title - Level 3 NVQ Diploma in Domestic Plumbing and Heating, which has a variety of unit combinations to enable achievement. You must complete a common mandatory group of units worth 56 credits plus one of the three optional groups PG1, PG2 or PG3 (which may also include both mandatory and optional routes)

Common Mandatory group

Knowledge Unit

• Understand how to organise resources in building services engineering R/602/2498 *Unit Credit Value 3*

Units

- Understand and carry out electrical work on domestic plumbing and heating systems and components T/502/9157 *Unit Credit Value 12*
- Install, commission, service and maintain domestic plumbing and heating K/502/9298 Unit Credit Value 3
- Understand and apply domestic cold water system installation, commissioning, service and maintenance techniques K/502/8930 *Unit Credit Value 9*
- Understand and apply domestic hot water system installation, commissioning, service and maintenance techniques K/502/9155 Unit Credit Value 9
- Understand and apply domestic central heating system installation, commissioning, service and maintenance techniques M/502/9156 *Unit Credit Value 12*
- Understand and apply domestic sanitation system installation, commissioning, service and maintenance techniques D/502/9296 *Unit Credit Value 8*

Competence Element = 53 credits Knowledge +

Competence = 56 credits Optional Groups

GROUP PG1 - Oil Firing Pathway (Knowledge 22 credits/Competence 63 credits = 85 credits in total. Comprising 56 credits from the common mandatory group, 16 credits from the pathway mandatory group plus 13 credits from the optional unit routes below)

Pathway Mandatory group

Knowledge Units

 Understand core oil firing safety principles in domestic building services engineering H/502/9557 Unit Credit Value 12

Knowledge Element = 12 credits

Competence Units

 Apply core oil firing safety in domestic building services engineering L/502/9391 Unit Credit Value 4

Competence Element = 4 credits

Plus:

Optional Units Route 1

- Knowledge Units
- Understand the principles of domestic oil firing pressure jet appliances D/502/9394 Unit
 Credit Value 7

Knowledge Element = 7 credits Competence

Units

- Install, test and commission domestic oil firing pressure jet appliances Y/502/9393 Unit Credit Value 3
- Service and maintain domestic oil firing pressure jet appliances M/502/9402 Unit Credit Value 3

Competence Element = 6 Credits

Or:

Optional Units Route 2

Knowledge Units

 Understand the principles of domestic oil firing vaporising appliances T/502/9403 Unit Credit Value 7

Knowledge Element = 7 credits Competence

Units

- Service and maintain domestic oil firing vaporising appliances F/502/9405 Unit Credit Value 3
- Install, test and commission domestic oil firing vaporising appliances A/502/9404 Unit Credit Value 3

Competence Element = 6 Credits

PG2 - Solid Fuel Pathway (Knowledge 22 or 25 credits/Competence 63 or 62 credits = 85 or 87 credits in total depending on option taken. Comprising 56 credits from the common mandatory group, 16 credits from the pathway mandatory group plus 13 credits from the optional unit routes 1 or 15 credits from the optional unit 2 below)

Common Mandatory group

Knowledge Units

• Understand core solid fuel safety principles in domestic building services engineering J/502/9406 *Unit Credit Value 12*

Knowledge Element = 12 credits

Competence Units

 Apply core solid fuel safety in domestic building services engineering L/502/9407 Unit Credit Value 4

Competence Element = 4 credits

Plus:

Optional Units Route 1

Knowledge Unit

 Understand the principles of domestic solid mineral fuel burning appliances R/502/9408 Unit Credit Value 7

Knowledge Element = 7 credits

Competence Units

- Service and maintain domestic solid mineral fuel burning appliances L/502/9410 Unit Credit Value 3
- Install, test and commission domestic solid mineral fuel burning appliances Y/502/9409 Unit Credit Value 3

Competence Element = 6 credits

Optional Units Route 2

Knowledge Units

- Understand the installation and commissioning principles of biomass fuel burning appliances R/502/9411 *Unit Credit Value 7*
- Understand the service and maintenance principles of biomass fuel burning appliances Y/502/9412 *Unit Credit Value 3*

Knowledge Element = 10 credits Competence

Units

- Service and maintain domestic biomass fuel burning appliances H/502/9414 Unit Credit Value 2
- Install, test and commission domestic biomass fuel burning appliances K/502/9415 Unit Credit Value 3

Competence Element = 5 credits

PG3 - Environmental Technologies Pathway (Knowledge 11 credits/Competence 57 credits = 68 credits in total. Comprising 56 credits from the common mandatory group, 2 credits from the pathway mandatory unit plus 10 credits from one of the optional units below)

Pathway Mandatory Knowledge Unit

• Understand the fundamental principles and requirements of environmental technology systems K/602/3138 *Unit Credit Value 2*

Plus:

Optional Units Route 1

Knowledge Units

- Know the requirements to install, commission and handover solar thermal hotwater systems F/602/3100 *Unit Credit Value 4*
- Know the requirements to inspect, service and maintain 'active' solar thermal hotwater systems Y/602/3104 *Unit Credit Value 2*

Knowledge Element = 6 credits Competence

Units

• Install, commission and handover 'active' solar thermal hot water systems L/602/3102 Unit Credit Value 2

• Inspect, service and maintain 'active' solar thermal hot water systems K/602/3107 Unit Credit Value 2

Competence Element = 4 credits

Or:

Optional Units Route 2

Knowledge Units

- Know the requirements to install, commission and handover heat pump systemsnon-refrigerant circuits Y/602/3054 *Unit Credit Value 4*
- Know the requirements to inspect, service and maintain heat pump system installations non-refrigerant circuits F/602/3078 *Unit Credit Value 2*

Knowledge Element = 6 credits Competence

Units

- Install, commission and handover heat pumps non-refrigerant circuits D/602/3072 *Unit Credit Value 2*
 - Inspect, service and maintain heat pump installations non-refrigerant circuits L/602/3083 *Unit Credit Value 2*

Competence Element = 4 credits

Or:

Optional Units Route 3

Knowledge Units

• Know the requirements to inspect, service and maintain rainwater harvesting and greywater reuse systems M/602/3111 *Unit Credit Value 2*

• Know the requirements to install, commission and handover rainwater harvesting and greywater reuse systems T/602/3109 *Unit Credit Value 4*

Knowledge Element = 6 credits Competence

Units

- Install, commission and handover rainwater harvesting and greywater reuse systems K/602/3110 Unit Credit Value 2
- Inspect, service and maintain rainwater harvesting and greywater reusesystems A/602/3130 Unit Credit Value 2

Competence Element = 4 credits

For further qualification details refer to: <u>register.ofqual.gov.uk/</u> and search by the relevant qualification.

Essential Skills

An apprenticeship framework must specify as a Welsh certificate requirement the expected achievement levels of Essential Skills in Communication and the Application of Number.

Where Essential Skills qualifications are specified in an apprenticeship framework, the apprenticeship framework must specify the acceptance of a recognised proxy qualification for Communication and Application of Number.

Communication

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of <u>SASW</u> on the <u>gov.wales</u> website. Additional guidance materials can be found on the <u>Knowledge Base</u> section of the <u>ACW</u> website.

Does this framework require Communication achievement <u>above</u> the minimum SASW requirement? YES \Box NO \boxtimes

If YES, please state the grade/level required for English and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Application of Number

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of <u>SASW</u> on the <u>gov.wales</u> website. Additional guidance materials can be found on the <u>Knowledge Base</u> section of the <u>ACW</u> website.

Does this framework require Application of Number achievement <u>above</u> the minimum SASW requirement? YES \Box NO \boxtimes

If YES, please state the grade/level required for Maths and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Inclusion of Digital Literacy (ICT)

Digital Literacy (ICT) is an **optional** framework requirement.

Is Digital Literacy a requirement in this framework? YES \Box NO \boxtimes

Progression routes into and from this pathway

Progression routes into this pathway:

Applicants may come from a range of routes including:

- Successful completion of a Foundation (Level 2) framework in Plumbing
- Successful completion of a Welsh Baccalaureate Intermediate Diploma
- Successful Completion of a Welsh Government 'Pathway to Apprenticeship' programme in Plumbing
- Work or work experience
- Training and/or experience which could include a portfolio showing what they have done
- Academic qualification(s) such as three GCSEs grades A-C in each of the following:- a communication subject, maths and either a science or technical-based subject
- Achievement of Essential Skills or Wider KeySkills at Level 2
- Level 2 GNVQs in relevant vocational/technical subjects
- Completion of a Level 2 'Access to Building Services Engineering' qualification.

No individual should be refused access to an initial assessment on the basis of educational qualifications alone. The ultimate responsibility for selection will rest with the individual employer.

Progression routes from this pathway

On successful completion of the Apprenticeship (Level 3) framework in Domestic Plumbing and Heating, an apprentice will have the skills, knowledge and qualifications to:

 Progress to relevant Level 4/5 qualifications e.g. Building Services Engineering Technology & Project Management or Foundation Degree in Engineering

Progress onto the Level 6 Apprenticeships related to this field such as in Building Services Engineering Technology & Project Management

- Take a relevant Trade Test to demonstrate competence to work in other UK countries
- Progress in their career with further training into such job roles as Technician, Designer, Estimator, Project Manager, Site/Workshop Supervisor/ Manager, Chartered Engineer, Sales Engineer or Commercial Manager.

Also whilst this sector doesn't currently have a 'Licence to Practice' our apprenticeships are recognised as fulfilling the competence requirements of the voluntary card schemes and will enable you to register on a relevant industry recognised Certification Scheme which is evidence that an operative is deemed competent to carry out a particular job role effectively and safely.

Please refer to the Instructus Skills website for more information: www.instructus-skills.org

UCAS points for this pathway:

N/A

Employee rights and responsibilities

Please note that for Apprenticeship starts from 14/10/2016 onwards ERR is no longer a **mandatory** requirement in all frameworks.

However, it may still be included in some frameworks and where it is not explicitly stated that ERR is not a requirement then confirmation of an Apprentice's ERR achievement will still remain a requirement for Apprenticeship certification purposes.

Is ERR a requirement for this framework?	YES		NO	\boxtimes
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Delivery and assessment

This is no longer a mandatory requirement

All apprentices MUST receive an induction to the workplace and to the apprenticeship programme. ERR will be delivered through one of two options, either a checklist or workbook, which will ensure that the apprentice knows and understands each of the nine national outcomes for ERR. The workbook has been designed to enable apprentices to work their way through a series of questions and activities which will bring ERR to life, making the learning more meaningful and long lasting and enhance the employability skills of the apprentice. Having this choice gives apprentices the flexibility to complete the ERR in a way that is most appropriate to them.

The Instructus Skills ERR workbook, available from the Instructus Skills E-learning portal (elearning.instructus.org)

RECOGNITION OF ERR:

On completion of the ERR checklist or workbook, the evidence must be placed in the apprentice's portfolio for quality assurance purposes. The workbook declaration of completion must be signed by the apprentice and training provider, or employer as proof that the ERR element has been completed.

Level 3, Pathway 2: Domestic Plumbing & Heating (Gas Fired Warm Air Appliances) - WITHDRAWN

Description of this pathway

This pathway is withdrawn due to all qualifications no longer awarded.

Entry requirements for this pathway in addition to the framework entry requirements

N/A

Job title(s)	Job role(s)
Advanced Plumber (Gas-Fired Warm Air)	Completes, oversees and organises work to install, service, maintain and commission domestic hot & cold water systems and domestic heating systems that use Gas Fired Warm Air Appliances

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

B1 – Level 3 NVQ Diploma in Domestic Plumbing and Heating (Gas Fired Warm Air Appliances)

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	000/0000/0	WITHDRAWN	000	000	000
B1b	000/0000/0	WITHDRAWN	000	000	000
B1c	000/0000/0	WITHDRAWN	000	000	000

Relationship between competence and knowledge qualifications

N/A

Essential Skills

An apprenticeship framework must specify as a Welsh certificate requirement the expected achievement levels of Essential Skills in Communication and the Application of Number.

Where Essential Skills qualifications are specified in an apprenticeship framework, the apprenticeship framework must specify the acceptance of a recognised proxy qualification for Communication and Application of Number.

Communication

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of <u>SASW</u> on the <u>gov.wales</u> website. Additional guidance materials can be found on the <u>Knowledge Base</u> section of the <u>ACW</u> website.

Does this framework require Communication achievement <u>above</u> the minimum SASW requirement? YES \Box NO \boxtimes

If YES, please state the grade/level required for English and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Application of Number

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of <u>SASW</u> on the <u>gov.wales</u> website. Additional guidance materials can be found on the <u>Knowledge Base</u> section of the <u>ACW</u> website.

Does this framework require Application of Number achievement <u>above</u> the minimum SASW requirement? YES \Box NO \boxtimes

If YES, please state the grade/level required for Maths and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Inclusion of Digital Literacy (ICT)

Digital Literacy (ICT) is an **optional** framework requirement.

Is Digital Literacy a requirement in this framework? YES \Box NO \boxtimes

Progression routes into and from this pathway

N/A

UCAS points for this pathway:

N/A

Employee rights and responsibilities

Please note that for Apprenticeship starts from 14/10/2016 onwards ERR is no longer a **mandatory** requirement in all frameworks.

However, it may still be included in some frameworks and where it is not explicitly stated that ERR is not a requirement then confirmation of an Apprentice's ERR achievement will still remain a requirement for Apprenticeship certification purposes.

Is ERR a requirement for this framework? YES \Box NO \Box

Delivery and assessment

N/A

Level 3, Pathway 3: Domestic Plumbing & Heating (Gas Fired Water and Central Heating Appliances)

Description of this pathway

Domestic Plumbing & Heating (Gas Fired Water and Central Heating Appliances) - Installing, maintaining, servicing and commissioning Domestic Plumbing and Heating systems with Gas Fired Water and Central Heating Appliances. Total credits for this pathway are 158.

- 146 credits for either combined (Knowledge 37 credits & Competence 109 credits) qualification
- 12 credits for Essential Skills in Communication and Application of Number.

Where Recognition of Prior Learning (RPL) is applied in relation to competence, knowledge or Essential Skills, the Apprenticeship programme must be tailored to allow the Apprentice to undertake new learning, including learning at a higher level and developing new skills.

In order to demonstrate the industry recognised level of competence reflected by this Apprenticeship (Level 3) framework it is expected the minimum duration for its completion will be **no less than 24 months.**

Entry requirements for this pathway in addition to the framework entry requirements

The Plumbing and Heating Industry would normally expect entry into this framework to be for those who have already successfully completed a Foundation (Level 2) framework in Plumbing, or for individuals with the experience and knowledge comparable with the requirements of that programme. The structured learning and assessment programme of this framework will enhance the skills and knowledge of the entrant to the benefit of employers and apprentices alike.

Examples of formal qualifications that can be used as an indication that an applicant has the potential to progress into and complete the Apprenticeship (Level 3) framework in Domestic Plumbing and Heating are:

- Successful completion of a Foundation (Level 2) framework in Plumbing
- Welsh Baccalaureate Intermediate Diploma OR
- Completion of a Welsh Government 'Pathway to Apprenticeship' in Plumbing OR
- GCSE grade A-C in each of the following:- a communication subject, maths and either a

science or technical-based subject OR

- Essential Skills Wales or Key Skills in Communication and Application of Number and IT at Level 2 OR
- Level 2 GNVQs in relevant vocational/technical subjects OR
- A Level 2 'Access to Building Services Engineering' qualification.

Job title(s)	Job role(s)
Advanced Plumber	Completes oversees and organises work to install service maintain and

Advanced Plumber (Gas-Fired Water and Central Heating) Completes, oversees and organises work to install, service, maintain and commission domestic plumbing and heating systems, components and Gas Fired Water and Central Heating Appliances

Qualifications

Competence qualifications available to this pathway

N/A

Knowledge qualifications available to this pathway

N/A

Combined qualifications available to this pathway

B1 – Level 3 NVQ Diploma in Domestic Plumbing and Heating (Gas Fired Water and Central Heating Appliances)

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	600/1134/8	City & Guilds	146	1034	1460
B1b	600/1657/7	EAL	146	1034	1460
B1c	600/6284/8	BPEC	146	1034	1460

Relationship between competence and knowledge qualifications

This framework requires the completion of either of the combined qualifications B1a, B1bor B1c identified in the combined qualifications section B1 above.

Qualification Title - Level 3 NVQ Diploma in Domestic Plumbing and Heating (Gas-Fired Water and Central Heating Appliances) which has the following units:

Knowledge Units

- Understand how to organise resources in building services engineering R/602/2498 Unit Credit Value 3
- Specific core installation and maintenance H/502/8487 Unit Credit Value 21
- Understand core gas safety principles for natural gas in domestic building services engineering J/502/9390 *Unit Credit Value 13*

Knowledge Element = 37 credits Competence

units

- Understand and carry out electrical work on domestic plumbing and heating systems and components T/502/9157 Unit Credit Value 12
- Install, commission, service and maintain domestic plumbing and heating systems K/502/9298 Unit Credit Value 3
- Tightness test, purge, commission and de-commission gas pipework up to 35mm 1¹/₄ diameter in small natural gas installations K/502/8376 Unit Credit Value 3
- Install, commission and de-commission gas pipework up to 35mm 1¼ diameter in domestic and small commercial premises T/502/8381 Unit Credit Value 19
- Maintain gas water heating and wet central heating appliances T/502/8459 Unit Credit Value 16
- Install domestic gas water heaters and wet central heating appliances Y/502/8454 Unit Credit Value 18
- Understand and apply domestic sanitation system installation, commissioning, service and maintenance techniques D/502/9296 *Unit Credit Value 8*
- Understand and apply domestic cold water system installation, commissioning, service and maintenance techniques K/502/8930 *Unit Credit Value 9*
- Understand and apply domestic hot water system installation, commissioning, service and maintenance techniques K/502/9155 Unit Credit Value 9
- Understand and apply domestic central heating system installation, commissioning, service and maintenance techniques M/502/9156 *Unit Credit Value 12*

Competence Element = 109 credits Total

Qualification = 146 credits

For further qualification details refer to: <u>register.ofqual.gov.uk/</u> and search by the relevant qualification.

Essential Skills

An apprenticeship framework must specify as a Welsh certificate requirement the expected achievement levels of Essential Skills in Communication and the Application of Number.

Where Essential Skills qualifications are specified in an apprenticeship framework, the apprenticeship framework must specify the acceptance of a recognised proxy qualification for Communication and Application of Number.

Communication

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of <u>SASW</u> on the <u>gov.wales</u> website. Additional guidance materials can be found on the <u>Knowledge Base</u> section of the <u>ACW</u> website.

Does this framework require Communication achievement <u>above</u> the minimum SASW requirement? YES \Box NO \boxtimes

If YES, please state the grade/level required for English and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Application of Number

For the current list of acceptable proxy qualifications and appropriate **minimum** grade/level requirements, please refer to the most recent version of <u>SASW</u> on the <u>gov.wales</u> website. Additional guidance materials can be found on the <u>Knowledge Base</u> section of the <u>ACW</u> website.

Does this framework require Application of Number achievement <u>above</u> the minimum SASW requirement? YES \Box NO \boxtimes

If YES, please state the grade/level required for Maths and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

Inclusion of Digital Literacy (ICT)

Digital Literacy (ICT) is an **optional** framework requirement.

Is Digital Literacy a requirement in this framework? YES \Box NO \boxtimes

Progression routes into and from this pathway

Applicants may come from a range of routes including:

- Successful completion of a Foundation (Level 2) framework in Plumbing
- Successful completion of a Welsh Baccalaureate Intermediate Diploma
- Successful completion of a Welsh Government 'Pathway to Apprenticeship' in Plumbing
- Work or work experience
- Training and/or experience which could include a portfolio showing what they have done
- Academic qualification(s) such as three GCSEs grades A-C in each of the following:- a communication subject, maths and either a science or technical-based subject
- Achievement of Essential Skills or Wider KeySkills
- Level 2 GNVQs in relevant vocational/technical subjects
- Completion of a Level 2 'Access to Building Services Engineering' qualification.

No individual should be refused access to an initial assessment on the basis of educational qualifications alone. The ultimate responsibility for selection will rest with the individual employer.

Progression routes from this pathway:

On successful completion of the Apprenticeship (Level 3) in Domestic Plumbing and Heating, an apprentice will have the skills, knowledge and qualifications to:

- Progress to relevant Level 4/5 qualifications e.g. Building Services Engineering Technology & Project Management or Foundation Degree in Engineering
- Progress onto the Level 6 Apprenticeships related to this field such as in Building Services

Engineering Technology & Project Management

- Take a relevant Trade Test to demonstrate competence to work in other UK countries
- Progress in their career with further training into such job roles as Technician, Designer, Estimator, Project Manager, Site/Workshop Supervisor/ Manager, Chartered Engineer, Sales Engineer or Commercial Manager.

Also whilst this sector doesn't currently have a 'Licence to Practice' our apprenticeships are recognised as fulfilling the competence requirements of the voluntary card schemes and will enable you to register on a relevant industry recognised Certification Scheme which is evidence that an operative is deemed competent to carry out a particular job role effectively and safely.

Please refer to the Instructus Skills website for more information: www.instructus-skills.org

UCAS points for this pathway: N/A

Employee rights and responsibilities

Please note that for Apprenticeship starts from 14/10/2016 onwards ERR is no longer a **mandatory** requirement in all frameworks.

However, it may still be included in some frameworks and where it is not explicitly stated that ERR is not a requirement then confirmation of an Apprentice's ERR achievement will still remain a requirement for Apprenticeship certification purposes.

Is ERR a requirement for this framework? YES \Box NO \boxtimes

Delivery and assessment

All apprentices MUST receive an induction to the workplace and to the apprenticeship programme. ERR will be delivered through one of two options, either a checklist or workbook, which will ensure that the apprentice knows and understands each of the nine national outcomes for ERR. The workbook has been designed to enable apprentices to work their way through a series of questions and activities which will bring ERR to life, making the learning more meaningful and long lasting and enhance the employability skills of the apprentice.

Having this choice gives apprentices the flexibility to complete the ERR in a way that is most appropriate to them.

The Instructus Skills ERR workbook, available from the Instructus Skills E-learning portal (elearning.instructus.org)

RECOGNITION OF ERR:

On completion of the ERR checklist or workbook, the evidence must be placed in the apprentice's portfolio for quality assurance purposes. The workbook declaration of completion must be signed by the apprentice and training provider, or employer as proof that the ERR element has been completed.

The remaining sections apply to all levels and pathways within this framework.

How equality and diversity will be met

The nature of the work means that the Plumbing and Heating Industry is not a traditional career choice for women, but women do qualify and work successfully in the industry and this is encouraged. We are continuing to work with the UK Resource Centre for Women in Science, Engineering and Technology and the Young Woman's Trust to promote the opportunities for women working within the building services engineering sector.

Instructus Skills will have overall responsibility for the development and review of the framework and for monitoring equality of opportunity, primarily by the analysis of the National Apprenticeship Service data.

There should be open recruitment of apprentices who meet the selection criteria, regardless of gender, ethnic origin, religion/belief, sexual orientation or disability .

All partners involved in the delivery of the apprenticeship and employers must be committed to a policy of equal opportunities and must have a formal equal opportunities policy and procedure in place. Employers/providers must be able to demonstrate that there are no overt or covert discriminatory practices in selection and employment. All promotional, selection and training activities must comply with relevant legislation such as the Equality Act 2010.

Providers will monitor equality of opportunity practice and procedures within their own organisation and take positive action when necessary. It is also recommended that employers/providers conduct an exit interview if the apprentice leaves the programme before completion.

On and off the job training

Summary of on- and off-the-job training

Overview of Foundation (Level 2) Plumbing

Qualification Total - 596 Training hours (Knowledge elements 132 hrs + Competence elements 464 hrs)

Essential Skills (ES) - 135 hrs (notional value of 45 hrs per ES x 3, which can be offset if previously completed)

Mentoring - 92 hrs (based on 46 wks x 2 hrs)

Minimum total of Training hours for this framework = 823 hrs

Overview of Apprenticeship (Level 3) Domestic Plumbing & Heating

There are three pathways an apprentice can choose from, each of which may or may not have options for study within them:

- Domestic Plumbing and Heating (Oil-Fired, Solid Fuel or Environmental)
- Domestic Plumbing and Heating (Gas-Fired Warm Air Appliances) WITHDRAWN
- Domestic Plumbing and Heating (Gas-Fired Water and Central Heating Appliances)

Domestic Plumbing and Heating

Domestic Oil Fired Systems

Qualification total - 638 Training hours (Knowledge elements 196 hrs + Competence elements 442 hrs)

Essential Skills (ES) - 90 Training hours (notional value of 45 hrs per ES x 2, which can be offset if previously completed)

Mentoring - 184 Training hours (based on 92 wks x 2 hrs)

Minimum total Training hours for this pathway is 912 hrs

Solid Fuel Systems

Domestic Solid Mineral Fuel Appliances

Qualification total - 638 Training hours (Knowledge elements 196 hrs + Competence elements 442 hrs)

Essential Skills (ES) - 90 Training hours (notional value of 45 hrs per ES x 2, which can be offset if previously completed)

Mentoring - 184 Training hours (based on 92 wks x 2 hrs)

Minimum total Training hours for this pathway is 912 hrs

Domestic Biomass Fuel Burning Appliances

Qualification total - 659 Training hours (Knowledge elements 218 hrs + Competence elements 441 hrs)

Essential Skills (ES) - 90

Training hours (notional value of 45 hrs per ES x 2, which can be offset if previously completed)

Mentoring - 184 Training hours (based on 92 wks x 2 hrs)

Minimum total Training hours for this pathway is 933 hrs

Environmental Technology Systems

Qualification total - 549 Training hours (Knowledge elements 91 hrs + Competence elements 458 hrs) Essential Skills (ES) - 90

Training hours (notional value of 45 hrs per ES x 2, which can be offset if previously completed)

Mentoring - 184 Training hours (based on 92 wks x 2 hrs)

Minimum total Training hours for this pathway is 823 hrs

Domestic Plumbing and Heating (Gas-Fired Warm Air Appliances) - WITHDRAWN

N/A

Domestic Plumbing and Heating (Gas-Fired Water and Central Heating Appliances)

Qualification Total - 1034 hrs (Knowledge elements 266 hrs + Competence elements 768 hrs)

Essential Skills (ES) - 90 hrs (notional value of 45 hrs per ES x 2, which can be offset if previously completed)

Mentoring - 184 hrs (based on 92 wks x 2 hrs)

Minimum total Training hours for this pathway - 1308 hrs

In addition to these hours we would encourage further practice take place in the work place.

Apprenticeships should normally require employment of at least 30 hrs per week as part of their Apprenticeship Agreement.

All training hours must be delivered during contracted working hours under an Apprenticeship Agreement or during a period less than 5 years before the date of application for an Apprenticeship certificate.

Training Hours:

- must be planned, reviewed and evaluated jointly between the apprentice and tutor, teacher, mentor or

manager

- must allow access as and when required by the apprentice either to a tutor, teacher, mentor or manager
- must be delivered through one or more of the following methods: individual and group teaching, e-learning, distance learning, coaching, mentoring; feedback and assessment; collaborative/networked learning with peers; guided study.

The framework delivery:

- must be planned to make full and effective use of the duration, including the opportunity for apprentices to embed and extend their learning through repeated workplace practice
- some of the Training Hours may be offset through Recognition of Prior Learning (RPL) of suitable qualifications and demonstrable experience gained within 5 years of apprenticeship certificate application
- When claiming the Apprenticeship certificate, training providers will be required to sign the Apprenticeship Certificate Claim form, stating that the total training hours have been met by the learner. The Claim Form can be downloaded from ACW: <u>https://acwcerts.co.uk/web/form s-documentation</u>

Off-the-job training

Foundation (Level 2) framework

Plumbing - minimum total off-the-job Training hours is 639 hrs over 24 months

- Yr 1 320 hrs
- •Yr 2 319 hrs

Apprenticeship (Level 3) frameworks

Domestic Plumbing and Heating (Oil-Fired, Solid Fuel or Environmental)

Domestic Oil-Fired Systems

Minimum total off-the-job Training hours is 728 hrs over 24 months

- Yr 1 364 hrs
- Yr 2 364 hrs

Solid Fuel Systems

Domestic Solid Mineral Fuel Appliances

Minimum total off-the-job Training hours is 728 hrs over 24 months

- Yr 1 364 hrs
- •Yr 2 364 hrs

Domestic Biomass Fuel Burning Appliances

Minimum total off-the-job Training hours is 749 hrs over 24 months

- Yr 1 375 hrs
- •Yr 2 374 hrs

Environmental Technology Systems Minimum total off-the-job Training hours is 639 hrs over 24 months

- Yr 1 320 hrs
- •Yr 2 319 hrs

Domestic Plumbing and Heating (Gas-Fired Warm Air Appliances) - WITHDRAWN

N/A

Domestic Plumbing and Heating (Gas-Fired Water and Central Heating Appliances)

Minimum off-the-job Training hours is 1124 hrs over 24 months

- Yr 1 562 hrs
- •Yr 2 562 hrs

How this requirement will be met

Training hours will be achieved through clear and specific outcomes which contribute directly to the successful completion of a framework, and these may include accredited and non-accredited elements of a framework.

Training hours will be delivered through one or more of the following methods: individual and group teaching; e-learning; distance learning; feedback and assessment; guided study.

All Training hours delivery will take place during contracted working hours and while working under an Apprenticeship Agreement. Off the job training hours will be away from the immediate pressures of the workplace e.g. day release, block release, web based learning, mentoring etc

This will be recorded and evidenced by training provider attendance statistics, assessment reports and apprentice diary/portfolio.

When claiming the Apprenticeship certificate, training providers will be required to sign the Apprenticeship Certificate Claim form, stating that the total training hours have been met by the learner. The Claim Form can be downloaded from ACW: <u>https://acwcerts.co.uk/web/form s-documentation</u>

On-the-job training

Foundation (Level 2) Framework

Plumbing - minimum total on-the-job Training hours is 184 hrs over 24 months

- Yr 1 92 hrs
- Yr 2 92 hrs

Apprenticeship (Level 3) Framework

1. Domestic Plumbing and Heating (Oil-Fired, Solid Fuel or Environmental)

Minimum total on-the-job Training hours is 184 hrs over 24 months

- Yr 1 92 hrs
- Yr 2 92 hrs

2. Domestic Plumbing and Heating (Gas-Fired Warm Air Appliances) - WITHDRAWN

N/A

3. Domestic Plumbing and Heating (Gas-Fired Water and Central Heating Appliances)

Minimum total on-the-job Training hours is 184 hrs over 24 months

- Yr 1 92 hrs
- Yr 2 92 hrs

This is the minimum number of Training hours that should be allocated for the apprentice to gather evidence in accordance with the requirements of the integrated qualification and mentoring.

How this requirement will be met

Training hours will be achieved through clear and specific outcomes which contribute directly to the successful completion of the framework, and these may include accredited and non-accredited elements of the framework.

Training hours will be delivered through one or more of the following methods: individual and group teaching; e-learning; distance learning; coaching, mentoring; feedback and assessment; collaborative/networked learning with peers; guided study.

All Training Hours delivery to take place during contracted working hours and while working under an Apprenticeship Agreement.

On the job Training Hours must be recorded eg in a diary/portfolio checked by an assessor, logs of peer review discussions, performance reviews etc

This will be evidenced by apprentices portfolio, employer dialogue, qualification assessment records and reports.

As part of the evidence requirements for Apprenticeship Completion certification, a copy of a completed Apprentice Consent Form may be requested. ACW: https://acwcerts.co.uk/web/forms-documentation

Wider key skills assessment and recognition

While Wider Key Skills are not a **mandatory** part of the framework, training providers are encouraged to provide apprentices the opportunity to achieve them.

For this framework, there are natural opportunities for Wider Key Skills to be embedded within the mandatory units of the following qualifications:

Enter Qualification Names

Improving own learning and performance

Give examples - signpost to specific units in framework qualifications that would meet these requirements

Working with others

Give examples - signpost to specific units in framework qualifications that would meet these requirements

Problem solving

Give examples - signpost to specific units in framework qualifications that would meet these requirements

apprenticeship FRAMEWORK

For more information visitwww.acwcerts.co.uk/framework library