

apprenticeship FRAMEWORK

Domestic 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: www.acwcerts.co.uk/framework_library

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Domestic Heating (Wales)

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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: FR04362	Level 2 <input checked="" type="checkbox"/> Level 3 <input checked="" type="checkbox"/> Level 4-7 <input type="checkbox"/>
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 Domestic 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 Domestic Heating systems e. g. pipework, radiators, hot water systems etc. 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 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)

- Domestic Heating

Job role

... Domestic Heating (Wales)

- Domestic Heating Systems Installer

and

Apprenticeship (Level 3)

- Domestic Heating

Job roles

- Advanced Domestic Heating Installer

Contact information

Proposer of this framework

[Former Summit Skills, the Sector Skills Council for the Domestic Heating industry, regularly engages with employers, manufacturers, trade associations and training providers to ensure frameworks continue to remain fit-for-purpose in periodic reviews.

Additional engagement activities include direct consultations by email and telephone with stakeholders.]

Developer of this framework

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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 Heating (Gas-Fired Warm Air Appliances) is withdrawn due to all qualifications no longer awarded or not available for new learners.]

Qualifications removed

[Level 3 NVQ Diploma in Domestic Heating City & Guilds 600/1473/8

Level 3 NVQ Domestic Heating (Gas-fired warm air appliances) City & Guilds 600/1116/6

Level 3 NVQ Domestic Heating (Gas-fired warm air appliances) EAL 600/1453/2

Level 3 NVQ Domestic Heating (Gas-fired warm air appliances) BPEC 600/6287/3

Level 3 NVQ Diploma in Domestic Heating (Gas Fired Water & Central Heating Appliances) City & Guilds 600/1117/8

Level 3 NVQ Diploma in Domestic Heating (Gas Fired Water & Central Heating Appliances) BPEC 600/6286/1]

Qualifications added

[None]

Qualifications that have been extended

[N/A]

Purpose of this framework

Summary of the purpose of the framework

This occupation framework is designed to provide new entrants and those seeking progression in their career with the opportunity to develop competencies needed to carry out job roles and responsibilities associated with the installation, maintenance, commissioning and servicing of domestic heating systems, including relevant:

- Sustainable Buildings Best Practices
- Environmental Technologies
- Technological requirements and changes
- Statutory and Non- Statutory Regulations & 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' and the Economic Renewal:

"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 employer's business could include the installation, service, maintenance and repair of a variety of heating systems and equipment, including:

- Plastic and Copper Water Pipes
- Heating Systems fuelled by Gas, Solar Thermal, Heat Pumps, Oil and Coal.

These products could be installed in 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:

- Domestic Heating Systems Installer
- Advanced Domestic Heating Systems Installer.

Aims and objectives of this framework (Wales)

The aim of this occupation framework is to ensure that the Foundation (Level 2) and Apprenticeship (Level 3) programmes 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 IT 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 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 respectfully 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

Domestic Heating

Pathways for the framework at level 2:

Pathway 1: Domestic Heating

Level 2, Pathway 1: Domestic Heating

Description of this pathway

Domestic Heating - the installation and maintenance of domestic heating systems and products (Central Heating & Water systems, underfloor heating etc) - 84 credits in total:

- 66 credits for the combined (Knowledge 14 credits & Competence 52 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 Domestic Heating are:

- Welsh Baccalaureate Foundation Diploma OR
- Completion of a 'Pathway to Apprenticeship' in Domestic Heating OR
- Essential Skills 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)
Domestic Heating Systems Installer	Works under minimal supervision to complete the installation and maintenance of domestic hot water, cold water and 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 Domestic Heating

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	501/1606/X	EAL	66	522	660
B1b	501/2102/9	City & Guilds	66	522	660
C1c	600/5271/5	BPEC	66	522	660

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 Domestic 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 heating systems R/602/2971 **Unit Credit Value 4**
- Understand and carry out safe working practices in building services engineering J/602/2479 **Unit Credit Value 10**
- 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**

Competence Element = 52 credits

Total Qualification = 66 credits

For further qualification details refer to: register.ofqual.gov.uk/ 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 [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Communication achievement above the minimum SASW requirement? YES NO

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 [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Application of Number achievement above 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 an **optional** framework requirement.

Is Digital Literacy a requirement in this framework? **YES** **NO**

[]

[Digital Literacy (ICT)]

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 [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Digital Literacy (ICT) achievement above the minimum SASW requirement? **YES** **NO**

If YES, please state the grade/level required for **Digital Literacy (ICT)** and give a brief **REASON** as to why this is required:

Enter alternative grade/level requirements and reasons here.

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' in Domestic Heating
- 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 Key Skills
- 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 Domestic Heating, an apprentice will normally spend time consolidating their roles and practising their skills for a period of time before progressing into:

- Learning and assessment programmes that lead to relevant Level 3 qualifications and/or an Apprenticeship (Level 3) framework in Domestic Heating OR
- Taking 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. Completion of this framework will provide the evidence required that you are deemed competent to carry out this job role effectively and safely.

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

UCAS points for this pathway: Framework Developer to complete with relevant info

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**

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 Heating

Pathways for the framework at level 3:

- | | |
|------------|---|
| Pathway 1: | Domestic Heating (Oil-Fired, Solid Fuel or Environmental Options) |
| Pathway 2: | Domestic Heating (Gas-Fired Warm Air Appliances) - WITHDRAWN |
| Pathway 3: | Domestic Heating (Gas-Fired Water & Central Heating appliances) |

Level 3, Pathway 1: Domestic Heating (Oil-Fired, Solid Fuel or Environmental Options)

Description of this pathway

Domestic Heating (Oil-Fired, Solid Fuel or Environmental Options) - Installing, commissioning, maintaining & servicing domestic heating systems. Total credits for this pathway are 72 - 91 depending on options taken.

- Minimum 60 credits for the combined (Knowledge 11 credits & Competence 49 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 Domestic Heating Industry would normally expect entry into this framework to be for those who have already successfully completed a Foundation (Level 2) framework in Domestic Heating and spent time consolidating their roles and practicing their skills. Alternatively it is for those 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 Heating are:

- Successful completion of the Foundation (Level 2) framework in Domestic Heating
- Welsh Baccalaureate Intermediate Diploma OR

- Completion of a Welsh Government 'Pathway to Apprenticeship' in Domestic Heating 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 Domestic Heating Installer (Oil-Fired, Solid Fuel or Environmental options)	Completes and oversees work to install, service, maintain and commission Oil-Fired, Solid Fuel, or Environmental domestic heating systems and associated 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 3 NVQ Diploma in Domestic Heating					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	600/1253/5	EAL	60-79	477-587	600
B1c	600/6871/1	BPEC	60-79	477-587	600

Relationship between competence and knowledge qualifications

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

Qualification Title - Level 3 NVQ Diploma in Domestic Heating, which has a variety of unit combinations to enable achievement. You must complete the common mandatory group of units worth 48 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**

Knowledge Element = 3 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 heating A/502/8933 **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**

Competence Element = 45 credits

Knowledge + Competence = 48 credits

Optional Groups

GROUP PG1 - Oil Firing Pathway (Knowledge 22 credits, Competence 55 credits = 77 credits in total. Comprising 48 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 55 or 54 credits = 77 or 79 credits in total depending on option taken. Comprising 48 credits from the common mandatory group, 16 credits from the pathway mandatory group plus 13 or 15 credits from one of the optional unit routes below)

Pathway 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 Units

- 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 49 credits = 60 credits in total. Comprising 48 credits from the common mandatory group, 2 credits from the pathway mandatory knowledge unit plus 10 credits from one of the optional unit routes 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 systems - non-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 reuse systems
A/602/3130 Unit Credit Value 2

Competence Element = 4 credits

For further qualification details refer to: register.ofqual.gov.uk/ and search by the relevant qualification or unit number.

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 [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Communication achievement above the minimum SASW requirement? YES NO

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 [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Application of Number achievement above 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:

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** **NO**

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 Domestic Heating
- Successful completion of a Welsh Baccalaureate Intermediate Diploma
- Successful completion of a Welsh Government 'Pathway to Apprenticeship' in Domestic Heating
- 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 out of this pathway:

On successful completion of the Apprenticeship (Level 3) framework in Domestic 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**

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, Pathway 2: Domestic Heating (Gas-Fired Warm Air Appliances) - WITHDRAWN

Description of this pathway

This pathway is withdrawn due to all qualifications no longer awarded or not available to new learners.

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

N/A

Job title(s)	Job role(s)
Advanced Domestic Heating Installer (Gas-Fired warm air)	Completes, oversees and organises work to install, service, maintain and commission gas-fired warm air domestic heating systems and associated 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 3 NVQ Domestic Heating (Gas-fired warm air appliances)

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	000/0000/0	WITHDRAWN	00	000	000
B1b	000/0000/0	WITHDRAWN	00	000	000
B1c	000/0000/0	WITHDRAWN	00	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 [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Communication achievement above the minimum SASW requirement? **YES** **NO**

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 [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Application of Number achievement above 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:

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** **NO**

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** **NO**

Delivery and assessment

N/A

Level 3, Pathway 3: Domestic Heating (Gas-Fired Water & Central Heating appliances)

Description of this pathway

Domestic Heating (Gas-Fired Water & Central Heating appliances) Installing, servicing, maintaining and commissioning domestic heating systems. Total credits for this pathway are 150:

- 138 credits for either combined (Knowledge 16 credits & Competence 122 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 Domestic Heating Industry would normally expect entry into this framework to be for those who have already successfully completed a Foundation (Level 2) framework in Domestic Heating and spent time consolidating their roles and practising their skills. Alternatively it is for those 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 Heating are:

- Successful completion of a Foundation (Level 2) framework in Domestic Heating
- Welsh Baccalaureate Intermediate Diploma OR

- Completion of a Welsh Government 'Pathway to Apprenticeship' in Domestic Heating 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 Domestic Heating Installer (Gas-Fired Water and Central Heating)	Completes, oversees and organises work to install, service, maintain and commission Gas-Fired Water & Central Heating systems and associated 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 3 NVQ Diploma in Domestic Heating (Gas Fired Water & Central Heating Appliances)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
B1a	600/1454/4	EAL	138	962	1380

Relationship between competence and knowledge qualifications

This framework requires the completion of the combined qualifications B1a identified in the combined qualifications section B1 above.

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

Knowledge Units

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

Knowledge Element = 16 credits

Competence Units

- Understand and carry out electrical work on domestic plumbing and heating systems and components T/502/9157 **Unit Credit Value 12**
- Tightness test, purge, commission and de-commission gas pipework up to 35mm 1¼ 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**
- Specific core installation and maintenance H/502/8487 **Unit Credit Value 21**
- Install, commission, service and maintain domestic heating systems A/502/8933 **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**

Competence Element = 122 credits

Total Qualification = 138 credits

For further qualification details refer to: register.ofqual.gov.uk/ and search by 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 [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Communication achievement above the minimum SASW requirement? YES NO

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 [SASW](#) on the [gov.wales](#) website. Additional guidance materials can be found on the [Knowledge Base](#) section of the [ACW](#) website.

Does this framework require Application of Number achievement above 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:

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** **NO**

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 Domestic Heating
- Successful completion of a Welsh Baccalaureate Intermediate Diploma
- Successful completion of a Welsh Government 'Pathway to Apprenticeship' in Domestic Heating
- 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) framework in Domestic 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**

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.

Framework Developer to complete with relevant info

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 Domestic 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

The following shows a breakdown of Training hours for each framework and pathway:

Overview of Foundation (Level 2) in Domestic Heating

Qualification Total - 522 hrs (Knowledge elements 132 hrs + Competence elements 390 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)

Total number of Training hours for this pathway - 749 hrs

Overview of Apprenticeship (Level 3) in Domestic Heating

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

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

1. Domestic Heating

a) Domestic Oil-Fired Systems Option

Qualification Total - 566 Training Hours (Knowledge elements 196 hrs + Competence 370 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 - 840 hrs

b) Solid Fuel Systems Option

(i) Domestic Solid Fuel Mineral Fuel Appliances

Qualification Total - 566 Training hours (Knowledge elements 196 hrs + Competence elements 370)

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 is 840 hrs

(ii) Domestic Biomass Fuel Burning Appliances

Qualification Total - 587 Training hours (Knowledge elements 218 hrs + Competence elements 369 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 is 861 hrs

c) Environmental Technology Systems Option

Qualification Total - 477 Training hours (Knowledge elements 91 hrs + Competence elements 386 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 is 751 hrs

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

N/A

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

Qualification Total - 962 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 - 1236 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
- 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/form s-documentation> |

Off-the-job training

Foundation (Level 2)

Domestic Heating - minimum total off-the-job Training hours is 565 hrs over 24 months

- Yr 1 - 283 hrs
- Yr 2 - 282 hrs

Apprenticeship (Level 3)

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

a) Domestic Oil-Fired Systems

Minimum total off-the-job Training Hours is 656 hrs over 24 months

- Yr 1 - 328 hrs GLH
- Yr 2 - 328 hrs GLH

b) Solid Fuel Systems

(i) Domestic Solid Mineral Fuel Appliances

Minimum total off-the-job Training hours is 656 hrs over 24 months

- Yr 1 - 328 hrs
- Yr 2 - 328 hrs

(ii) Domestic Biomass Fuel Burning Appliances

Minimum total off-the-job Training hours is 677 hrs over 24 months

- Yr 1 - 339 hrs
- Yr 2 - 338 hrs

c) Environmental Technology Systems

Minimum total off-the-job Training hours is 656 hrs over 24 months

- Yr 1 - 328 hrs
- Yr 2 - 328 hrs

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

N/A

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

Minimum total off-the-job Training hours is 1052 hrs over 24 months

- Yr 1 - 526 hrs
- Yr 2 - 526 hrs

How this requirement will be met

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

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: <https://acwcerts.co.uk/web/form s-documentation>

On-the-job training

Foundation (Level 2) framework

Domestic Heating - 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 Heating (Oil-Fired, Solid Fuel or Environmental Options) - minimum total on-the-job Training hours is 184 hrs

- Yr 1 - 92 hrs

- Yr 2 - 92 hrs

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

N/A

3. Domestic Heating (Gas-Fired Water and Central Heating Appliances) - minimum total on-the-job Training hours is 184 hrs

- 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 contributed 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 & whilst 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:

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 visit-
www.acwcerts.co.uk/framework_library