

# apprenticeship FRAMEWORK

## Master Craftsperson Level 4 Recognition Scheme (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?

Please use this link to see if this is the latest issued version of this framework:

[afo.sscalliance.org/frameworkslibrary/index.cfm?id=FR04098](http://afo.sscalliance.org/frameworkslibrary/index.cfm?id=FR04098)

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# CHANGES TO REQUIREMENTS FOR APPRENTICESHIP STARTS FROM 14TH 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 2016. Apprenticeship starts before this date must continue to meet the 2013 SASW requirements for Essential Skills and Employer Rights and Responsibilities.

## Alternatives for Essential Skill qualifications

**Foundation apprenticeships (Level 2):** Where Essential Skills qualifications are specified in a foundation apprenticeship framework (Level 2), the apprenticeship framework must specify as a Welsh certificate requirement, the acceptance of one of the following recognised proxy qualifications.

For Communication:

- a. GCSE or iGCSE qualification in English language or literature to at least grade G (Level 1 equivalent); or
- b. O Level qualification in English language or literature to at least grade E; or
- c. A/AS Level qualification in English language or literature to at least grade E; or
- d. SCQF Level 4 – Communication Core Skills (Oral communication and written communication); or
- e. SQA National 4 English; or
- f. Functional Skills or Key Skills literacy qualifications in English provided the proxy qualification(s) attained are at Level 1 or above.

For Application of Number:

- a. GCSE or iGCSE qualification in Mathematics to at least grade G (Level 1 equivalent); or
- b. O Level qualification in Mathematics to at least grade E; or
- c. A/AS Level qualification in Mathematics to at least grade E; or
- d. SCQF Level 4 – Numeracy Core Skill (Graphical Information and using number); or
- e. SQA National 4 Mathematics ; or
- f. Functional Skills or Key Skills numeracy qualifications in Mathematics provided the proxy qualification(s) attained are at Level 1 or above.

**Apprenticeships (Level 3):** Where Essential Skills qualifications are specified in an apprenticeship framework (Level 3), the apprenticeship framework must specify as a Welsh certificate requirement, the acceptance of one of the following recognised proxy qualifications.

For Communication:

- a. GCSE or iGCSE qualification in English language or literature to at least grade C (Level 2 equivalent); or
- b. O Level Qualification in English language or literature to at least grade C; or
- c. A/AS Level qualification in English or literature to at least grade E; or
- d. SCQF Level 5 – Communication Core Skills (Oral communication and written communication); or
- e. SQA National 5 English; or
- f. Functional Skills or Key Skills literacy qualifications in English provided the proxy qualification(s) attained is at Level 2 or above.

For Application of Number:

- a. GCSE or iGCSE qualification in Mathematics to at least grade C (Level 2 equivalent); or
- b. O Level Qualification in Mathematics to at least grade C; or
- c. A/AS Level qualification in Mathematics to at least grade E; or
- d. SCQF Level 5 – Numeracy Core Skill (Graphical information and using number); or
- e. SQA National 5 Mathematics; or
- f. Functional Skills or Key Skills numeracy qualifications in Mathematics provided the proxy qualification(s) attained are at Level 2 or above.

**Higher Apprenticeships (Levels 4-7):** Essential Skills requirements are as for an apprenticeship frameworks at Level 3.

# CHANGES TO REQUIREMENTS FOR APPRENTICESHIP STARTS FROM 14TH OCTOBER 2016

## Employer Rights and Responsibilities (ERR)

The final modification to SASW is to Employer Rights and Responsibilities (ERR) which is no longer compulsory in frameworks. Please refer to the Employer Rights and Responsibilities section within the framework document to confirm specific requirements.

## Additional Information

It should be noted that SASW has also been modified to reflect existing improvements to Essential Skills Wales Qualifications. These improvements to ESW qualifications were signalled by the revised names:

- Essential Skills Wales Communication is now Essential Communication Skills (still 6 credits in size)
- Essential Skills Wales Application of Number Skills is now Essential Application of Number Skills (still 6 credits in size)
- Essential Skills Wales Information Communication Technology Skills is now Essential Digital Literacy Skills (still 6 credits in size)

Whilst there have been some amendments to the content of ESW qualifications, the most significant change has been to the assessment methodology for these qualifications.

From 1 January 2016, all new starts have had to follow the revised Essential Skill qualifications.

The updated version of SASW, and guidance documents, can be accessed here:

<http://gov.wales/topics/educationandskills/skillsandtraining/apprenticeships/providers/?lang=en&dgd>

Over the coming months, the Essential Skills section within AFO will be amended to reflect the SASW modifications and all current frameworks will be updated and reissued to incorporate these changes. In the meantime, if you are in any doubt as to the requirements of any framework then please contact the relevant Issuing Authority.

# Master Craftsperson Level 4 Recognition Scheme (Wales)

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# Framework summary

## Master Craftsperson Level 4 Recognition Scheme

### Master Craftsperson Recognition Scheme

#### Pathways for this framework at level 4 include:

##### Pathway 1: Master Craftsperson

###### Competence qualifications available to this pathway:

- C1 - CMI Level 3 Certificate In Coaching and Mentoring
- C2 - City & Guilds Level 3 Certificate In Mentoring
- C3 - Level 4 Certificate in Leading the Internal Quality Assurance of Assessment Processes and Practice (QCF)

###### Knowledge qualifications available to this pathway:

- K1 - Pearson BTEC Level 4 HNC Diploma in Manufacturing Engineering (QCF)
- K2 - Pearson BTEC Level 4 HNC Diploma in Aeronautical Engineering (QCF)
- K3 - Pearson BTEC Level 5 HND Diploma in Manufacturing Engineering (QCF)
- K4 - Pearson BTEC Level 5 HND Diploma in Aeronautical Engineering (QCF)
- K5 - City & Guilds Level 4 Diploma in Aeronautical Engineering (QCF)
- K6 - Pearson BTEC Level 4 HNC Diploma in General Engineering (QCF)
- K7 - Pearson BTEC Level 5 HND Diploma in General Engineering (QCF)
- K8 - Pearson BTEC Level 4 HNC Diploma in Mechanical Engineering (QCF)
- K9 - Pearson BTEC Level 5 HND Diploma in Mechanical Engineering (QCF)
- K10 - HNC Operations Engineering
- K11 - City & Guilds Level 4 Diploma in Mechanical Manufacturing Engineering (QCF)
- K12 - HNC Mechanical Engineering
- K13 - HNC Mechanical Technology
- K14 - HNC Mechanical Engineering
- K15 - HND Mechanical Engineering
- K16 - Pearson BTEC Level 4 HNC Diploma in Electrical and Electronic Engineering (QCF)
- K17 - Pearson BTEC Level 5 HND Diploma in Electrical and Electronic Engineering (QCF)
- K18 - Pearson BTEC Level 4 HNC Diploma in Electrical Engineering (QCF)
- K19 - Pearson BTEC Level 5 HND Diploma in Electrical Engineering (QCF)
- K20 - Pearson BTEC Level 4 HNC Diploma in Electronic Engineering (QCF)
- K21 - Pearson BTEC Level 5 HND Diploma in Electronic Engineering (QCF)
- K22 - City & Guilds Level 4 Diploma in Electrical and Electronic Engineering (QCF)
- K23 - HNC Electrical / Electronic Engineering
- K24 - HNC Electrical / Electronic Engineering
- K25 - HNC Electrical and Electronic Technology
- K26 - HNC Electrical and Electronic Engineering
- K27 - HNC in Electrical and Electronic Engineering
- K28 - Pearson BTEC Level 4 HNC Diploma in Automotive Engineering (QCF)

- K29 - Pearson BTEC Level 4 HNC Diploma in Operations Engineering (QCF)
- K30 - Pearson BTEC Level 5 HND Diploma in Operations Engineering (QCF)
- K31 - HNC Engineering
- K32 - HND Engineering
- K33 - HNC Instrumentation Engineering
- K34 - HND Power Systems Engineering
- K35 - Pearson BTEC Level 4 HNC Diploma in Marine Engineering (QCF)
- K36 - Pearson BTEC Level 5 HND Diploma in Marine Engineering (QCF)
- K37 - Pearson BTEC Level 4 HNC in Engineering
- K38 - Pearson BTEC Level 4 Higher National Certificate in Aeronautical Engineering (Aerospace pathway)
- K39 - Foundation Degree FdEng in Aeronautical Engineering (Manufacture)
- K40 - Foundation Degree FdEng Aircraft Maintenance
- K41 - Foundation Degree FdEng in Aeronautical and Manufacturing Engineering
- K42 - Foundation Degree FdEng in Mechanical Engineering
- K43 - Foundation Degree FdEng in Industrial Engineering
- K44 - Foundation Degree in Mechanical Engineering
- K45 - Foundation Degree in Process Operations Maintenance
- K46 - Foundation Degree in Electrical / Electronic Engineering
- K47 - Foundation Degree in Automotive Engineering
- K48 - EAL Level 4 NVQ Extended Diploma in Engineering Manufacture (QCF)
- K49 - City & Guilds Level 4 NVQ Extended Diploma in Engineering Manufacture (QCF)
- K50 - EAL Level 4 NVQ Diploma in Engineering Manufacture (QCF)

**Combined qualifications available to this pathway:**

N/A

**This pathway also contains information on:**

- Employee rights and responsibilities
- Essential skills

# Framework information

## Information on the Publishing Authority for this framework:

### SEMTA

The Apprenticeship sector for occupations in science, engineering and manufacturing technologies.

Issue number: 5	<b>This framework includes:</b>
Framework ID: FR04098	Level 4
Date this framework is to be reviewed by: 29/06/2018	<b>This framework is for use in: Wales</b>

## Short description

Currently around half of the companies operating in the AM&M sector in Wales have well-trained, experienced craftspeople in a leadership/coaching/mentoring role. These roles vary greatly between organisations. The Master Craftsperson qualification at Level 4 provides individuals with more effective mobility within the sector and organisations with a common reference point and language when considering the skills and attributes of their workforce.

This framework has 1 pathway which leads to the award of the Master Craftsperson Level 4 Recognition Scheme:

### Pathway 1 - Master Craftsperson

This pathway is for candidates that would like to have the opportunity to gain a coaching and mentoring qualification in the workplace plus a Level 4 or Level 5 engineering knowledge qualification at college or university

# Contact information

## Proposer of this framework

This scheme is based on several discussions with the Welsh government and a research document produced by ColegauCymru on the subject of introducing the recognition of a Master Craftsperson role in Wales.

Following a positive response from the survey, Semta has held physical and online employer and stakeholder consultations throughout Wales and used the feedback to develop this Master Craftsperson recognition scheme. Participants included Tata Steel, Thomas Cook, Business Nuts and Bolts, along with providers representing other companies in their area such as Gower College Swansea, Coleg Gwent, Bridgend College, Coleg Menai, Coleg Cymoedd, Coleg Sir Gar, Pembrokeshire College, Coleg Cambria, Merthyr College, and Cardiff & Vale College.

## Developer of this framework

Name: Standards and Frameworks  
Organisation: Semta  
Organisation type: Sector Skills Council  
Job title:  
Phone: 01923 238441  
Email: [frameworks@semta.org.uk](mailto:frameworks@semta.org.uk)  
Postal address: Semta  
Unit 2, The Orient Suite  
Greycaine Road  
Watford  
Herts  
WD24 7GP  
Website: [www.semta.org.uk](http://www.semta.org.uk)

## Issuing Authority's contact details

Issued by: SEMTA  
Issuer contact name: Paul Turnbull  
Issuer phone: 0845 6439001  
Issuer email: [IssuingAuthority@semta.org.uk](mailto:IssuingAuthority@semta.org.uk)

# Revising a framework

## Contact details

Who is making this revision: Standards and Frameworks  
Your organisation: Semta  
Your email address: frameworks@semta.org.uk

## Why this framework is being revised

One competency qualification has expired and is now replaced by a new competency qualification, and one new knowledge qualification has been added as requested by a provider.

## Summary of changes made to this framework

### Pathway 1: Master Craftsperson

- One competency qualification has been removed
- One new competency qualification has been added
- One knowledge qualification has been added

## Qualifications removed

- City & Guilds Level 3 Certificate In Mentoring (QCF) 600/6564/3

## Qualifications added

### Pathway 1: Master Craftsperson

- C2 - City & Guilds Level 3 Certificate in Mentoring 600/5785/3
- K50 - EAL Level 4 NVQ Diploma in Engineering Manufacture (QCF) 600/9486/2

## Qualifications that have been extended

None

# Purpose of this framework

## Summary of the purpose of the framework

Semta, in association with ColegauCymru and Welsh Government, was asked to research into the feasibility of adopting the Master Craftsperson recognition scheme within the Advanced Materials and Manufacturing (AM&M) sector in Wales, focussing on the existing role of experienced craftspeople, the potential demand for the scheme and the scheme content or structure

Data was gathered from companies operating in the AM&M sector in Wales via an online survey promoted by Semta through their various communication networks.

Using the survey results, Semta has developed a Master Craftsperson recognition scheme within Wales. Primarily, the scheme is aimed at the engineering and manufacturing sectors, although there is an option to roll it out to other sectors if it is successful.

Master Craftspeople are highly trained technical employees with vocational accreditation. The high quality of vocational training required to achieve this accreditation (particularly in Germany) has led to an increase in demand for Master Craftspeople across the European Union. This is due to the trend that many German-based companies prefer to hire master craftsmen rather than university graduates as technical managers (mostly mid-level management) as the education is more practical, and because these craftsmen also acquire some theoretical skills and business knowledge during their training.

This Master Craftsperson recognition scheme is for craftspeople (technicians' and engineers') with a number of years' experience to undertake training to achieve coaching and mentoring qualifications, so that they can provide support to new employees, trainees and apprentices.

Employers in the Welsh AM&M sector support the scheme because accreditation brings value to both their employees and their business. They will actively recruit personnel who have achieved the standard as the skillset of individuals is enhanced enabling them to add increased value to their organisation.

The Welsh Master Craftsperson framework has parity with European standards and attainment of the framework is linked to professional recognition via the qualifications and the experience achieved.

## **Aims and objectives of this framework (Wales)**

The aim of this scheme is to give craftspeople (technicians and engineers) with a number of years' experience the opportunity to undertake training to achieve coaching and mentoring qualifications; so that they can provide support to new employees, trainees and apprentices.

Additional benefits include:

Providing a structured training programme to develop and upskill the workforce  
helping to improve recruitment and retention rates within the industry by offering appropriate career progression

# Entry conditions for this framework

The scheme will lead to recognition at Level 4.

To qualify for entry on to the Level 4 scheme, candidates will be required to have:

- previously completed an engineering related apprenticeship (at Level 3) in the area they wish to coach/mentor in or
- may have a variety of relevant qualifications such as STEM A Levels (eg Maths, Science, Design Technology), Certificate/ Diploma in Engineering, Apprenticeship in Engineering or
- if they do not have formal qualifications they will be required to provide evidence that shows they are currently working at a Level 3 standard (perhaps through a portfolio of experience).

In addition to Level 3 qualifications or experience, the candidates have to:

- undergo an employer interview process prior to acceptance onto the scheme
- have at least five years industry experience of working in the sector
- have the ability/potential to, or be carrying out the role of mentor, supervisor or leader in their company.

Although the qualifying experience does not need to be focussed on a higher role, the candidates should undergo an interview process to formally demonstrate their experience of the scheme requirements prior to their acceptance onto the framework. However, participants will be judged on their ability, not by the length of time they have worked in the sector.

On completion of the scheme the candidates will receive a coaching and/or mentoring qualification. They will also receive either a knowledge based qualification or further competence units in engineering manufacture, or an assessor qualification. As part of the scheme candidates can choose to undertake qualifications which may lead to professional recognition as an Incorporated Engineer (\*IEng).

\* The IEng (Incorporated Engineer) status can be sought after the completion of the EngTech or higher formal qualification. Candidates must demonstrate technical and commercial management skills, commitment to professional standards and obligations, the use of technical/engineering knowledge to apply technology to their work and the application of theoretical and practical methods to a process, system, service or product.

<http://www.theiet.org/membership/profreg/ieng/requirements/>

<http://www.imeche.org/membership-registration/become-a-member>

## Rules to avoid the need to repeat qualifications

To avoid the need to repeat qualifications, processes exist to ensure applicants with prior knowledge, qualifications and/or experience are not disadvantaged. Colleges, Training Providers and Awarding Organisations will be able to advise applicants on the current rules for accrediting prior learning (APL) and experience.

### **Essential Skills Qualifications**

The new set of Essential Skills Qualifications (ESQ): Essential Communication Skills, Essential Application of Number Skills and Essential Digital Literacy Skills must be achieved at Level 2 for this recognition scheme.

Recognised proxies for the new ESQ qualifications are accepted - these are listed in the front of this framework document. Essential Skills Wales or ESQ qualifications achieved in the context of the Welsh Baccalaureate Qualification (WBQ) can be accepted, provided the specific certification of the title(s) and level(s) of those ESW/ESQ qualifications is provided. The WBQ certificate itself does not provide this specific evidence.

### **Knowledge qualifications**

If applicants have already achieved one of the knowledge qualifications listed (see qualifications pages) before starting their apprenticeship, they may count this and will not have to repeat the qualification, providing they have achieved this within five years of starting the apprenticeship.

The training hours that were spent gaining the qualification may be counted towards the total training hours for the apprenticeship.

### **Competence qualifications**

If applicants have already achieved one of the competence qualifications at Level 4 or units at Level 4 (see competence qualifications pages) before starting their apprenticeship, they may count this and will not have to repeat the qualification providing they have achieved this qualification within five years of starting their apprenticeship. The hours that were spent gaining the competence qualification may be counted towards the total hours for the apprenticeship.

It is important that there is agreement between the employer and the apprentice that the applicant is currently competent.

### **Prior experience in the sector**

Applicants that are already working in the sector or who have recently worked in the sector, can apply to have their experience formally recognised by an awarding organisation and this will count towards the qualification(s) in this framework.

## Level 4

Title for this framework at level 4

# Master Craftsperson Recognition Scheme

### Pathways for this framework at level 4

Pathway 1: Master Craftsperson

## Level 4, Pathway 1: Master Craftsperson

### Description of this pathway

#### Master Craftsperson (Coaching/mentoring)

This pathway is for candidates that would like to have the opportunity to gain a coaching and mentoring qualification in the workplace plus a Level 4 or Level 5 engineering knowledge qualification at college or university.

The duration depends on the qualification and unit options selected.

Topics covered:

- Management
- Leadership
- People management
- HR
- Finance
- Skills transfer
- Coaching and mentoring qualification

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

There are no additional requirements other than the general entry conditions

Job title(s)	Job role(s)
Training Manager	Organise and manage training programmes within an organisation. Make sure staff gain and develop the skills they need to carry out their jobs effectively. Also work with the employees to establish the company's present and future needs
Course Leader	Responsible for managing a group of people and will spend time delegating tasks, negotiating workloads, assessing performance and reporting on developments
Trainer	Responsible for ensuring that the apprentice or trainee has access to the full range of work required to develop the skills and industry knowledge they need on the job. You also need to observe their progress and confirm that they are developing the required skills and knowledge to progress
Coach	Targets high performance and improvement at work and usually focuses on specific skills and goals to develop a more junior or inexperienced individual's skills, knowledge or work performance
Mentor	Using experience, knowledge and understanding of the work or workplace to support the development of a more junior or inexperienced member of staff

# Qualifications

## Competence qualifications available to this pathway

C1 - CMI Level 3 Certificate In Coaching and Mentoring					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
C1a	600/9464/3	Chartered Management Institute	15	50	N/A

  

C2 - City & Guilds Level 3 Certificate In Mentoring					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
C2a	600/5785/3	City & Guilds	13	27	N/A

## Competence qualifications available to this pathway (cont.)

C3 - Level 4 Certificate in Leading the Internal Quality Assurance of Assessment Processes and Practice (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
C3a	501/1680/0	City & Guilds	17	115	N/A
C3b	600/2616/9	Agored Cymru	17	115	N/A
C3c	501/0826/8	Active IQ	17	115	N/A
C3d	501/2177/7	Future (Awards and Qualifications) Ltd	17	115	N/A
C3e	501/0890/6	NCFE	17	115	N/A
C3f	501/0462/7	VTCT	17	115	N/A
C3g	601/5104/3	BIIAB	17	115	N/A
C3h	501/1733/6	Ascentis	17	115	N/A
C3i	600/0730/8	NOCN	17	115	N/A
C3j	501/0949/2	IMI	17	115	N/A
C3k	600/2326/0	WAMITAB	17	115	N/A
C3l	500/9943/7	OCR	17	115	N/A

## Knowledge qualifications available to this pathway

K1 - Pearson BTEC Level 4 HNC Diploma in Manufacturing Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K1a	500/8829/4	Pearson	120	480	N/A

## K2 - Pearson BTEC Level 4 HNC Diploma in Aeronautical Engineering (QCF)

No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K2a	500/8992/4	Pearson	120	480	N/A

## Knowledge qualifications available to this pathway (cont.)

K3 - Pearson BTEC Level 5 HND Diploma in Manufacturing Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K3a	500/8828/2	Pearson	240	980	N/A

  

K4 - Pearson BTEC Level 5 HND Diploma in Aeronautical Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K4a	500/8991/2	Pearson	240	980	N/A

  

K5 - City & Guilds Level 4 Diploma in Aeronautical Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K5a	600/9042/X	City & Guilds	120	368	N/A

  

K6 - Pearson BTEC Level 4 HNC Diploma in General Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K6a	500/8827/0	Pearson	120	480	N/A

## Knowledge qualifications available to this pathway (cont.)

K7 - Pearson BTEC Level 5 HND Diploma in General Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K7a	500/8825/7	Pearson	240	980	N/A

  

K8 - Pearson BTEC Level 4 HNC Diploma in Mechanical Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K8a	500/8824/5	Pearson	120	480	N/A

  

K9 - Pearson BTEC Level 5 HND Diploma in Mechanical Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K9a	500/8826/9	Pearson	240	980	N/A

  

K10 - HNC Operations Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K10a	N/A	University of Wales, Newport	150	750	N/A

## Knowledge qualifications available to this pathway (cont.)

K11 - City & Guilds Level 4 Diploma in Mechanical Manufacturing Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K11a	600/6874/7	City & Guilds	120	395	N/A

K12 - HNC Mechanical Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K12a	N/A	University of Wales: Trinity St Davids	160	1600	N/A

K13 - HNC Mechanical Technology					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K13a	N/A	Glyndwr University via Coleg Cambria	150	576	N/A

K14 - HNC Mechanical Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K14a	N/A	University of South Wales	120	N/A	N/A

## Knowledge qualifications available to this pathway (cont.)

K15 - HND Mechanical Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K15a	N/A	University of South Wales	240	N/A	N/A

K16 - Pearson BTEC Level 4 HNC Diploma in Electrical and Electronic Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K16a	500/8831/2	Pearson	120	480	N/A

K17 - Pearson BTEC Level 5 HND Diploma in Electrical and Electronic Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K17a	500/8834/8	Pearson	240	980	N/A

K18 - Pearson BTEC Level 4 HNC Diploma in Electrical Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K18a	500/8257/7	Pearson	120	480	N/A

## Knowledge qualifications available to this pathway (cont.)

K19 - Pearson BTEC Level 5 HND Diploma in Electrical Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K19a	500/8255/3	Pearson	240	980	N/A

  

K20 - Pearson BTEC Level 4 HNC Diploma in Electronic Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K20a	500/8830/0	Pearson	120	480	N/A

  

K21 - Pearson BTEC Level 5 HND Diploma in Electronic Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K21a	500/8833/6	Pearson	240	980	N/A

  

K22 - City & Guilds Level 4 Diploma in Electrical and Electronic Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K22a	600/6955/7	City & Guilds	120	403	N/A

## Knowledge qualifications available to this pathway (cont.)

K23 - HNC Electrical / Electronic Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K23a	N/A	University of Wales: Trinity St Davids	160	1600	N/A

  

K24 - HNC Electrical / Electronic Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K24a	N/A	Glyndwr University via Coleg Cambria	150	576	N/A

  

K25 - HNC Electrical and Electronic Technology					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K25a	N/A	Glyndwr University via Coleg Menai	150	576	N/A

  

K26 - HNC Electrical and Electronic Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K26a	N/A	University of South Wales	120	GLH	UCASValue

## Knowledge qualifications available to this pathway (cont.)

K27 - HNC in Electrical and Electronic Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K27a	N/A	University of Wales: Trinity St David	120	1200	N/A

  

K28 - Pearson BTEC Level 4 HNC Diploma in Automotive Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K28a	500/8601/7	Pearson	120	480	N/A

  

K29 - Pearson BTEC Level 4 HNC Diploma in Operations Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K29a	500/8960/2	Pearson	120	480	N/A

  

K30 - Pearson BTEC Level 5 HND Diploma in Operations Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K30a	500/8959/6	Pearson	240	980	N/A

## Knowledge qualifications available to this pathway (cont.)

K31 - HNC Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K31a	N/A	University of Wales, Newport	160	640	N/A

K32 - HND Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K32a	N/A	University of Wales: Trinity St Davids	160	420	N/A

K33 - HNC Instrumentation Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K33a	N/A	University of Wales: Trinity St Davids	160	420	N/A

K34 - HND Power Systems Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K34a	N/A	University of Wales: Trinity St Davids	160	420	N/A

## Knowledge qualifications available to this pathway (cont.)

K35 - Pearson BTEC Level 4 HNC Diploma in Marine Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K35a	600/2080/5	Pearson	120	480	N/A

  

K36 - Pearson BTEC Level 5 HND Diploma in Marine Engineering (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K36a	600/2081/7	Pearson	240	980	N/A

  

K37 - Pearson BTEC Level 4 HNC in Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K37a	603/0450/9	Pearson	120	480	N/A

  

K38 - Pearson BTEC Level 4 Higher National Certificate in Aeronautical Engineering (Aerospace pathway)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K38a	603/0485/6	Pearson	120	480	N/A

## Knowledge qualifications available to this pathway (cont.)

K39 - Foundation Degree FdEng in Aeronautical Engineering (Manufacture)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K39a	N/A	Glyndwr University	240	N/A	N/A

  

K40 - Foundation Degree FdEng Aircraft Maintenance					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K40a	N/A	Glyndwr University	N/A	N/A	240

  

K41 - Foundation Degree FdEng in Aeronautical and Manufacturing Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K41a	N/A	Swansea Univeristy via Coleg Cambria	N/A	N/A	240

  

K42 - Foundation Degree FdEng in Mechanical Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K42a	N/A	Swansea University via Gower College	240	N/A	N/A

## Knowledge qualifications available to this pathway (cont.)

K43 - Foundation Degree FdEng in Industrial Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K43a	N/A	Glyndwr University	N/A	N/A	240

  

K44 - Foundation Degree in Mechanical Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K44a	N/A	University of Wales via Pembrokeshire college	160	420	N/A

  

K45 - Foundation Degree in Process Operations Maintenance					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K45a	N/A	University of Wales via Pembrokeshire college	N/A	N/A	240

  

K46 - Foundation Degree in Electrical / Electronic Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K46a	N/A	Swansea University via Gower College Swansea	240	N/A	N/A

## Knowledge qualifications available to this pathway (cont.)

K47 - Foundation Degree in Automotive Engineering					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K47a	N/A	University of South Wales	N/A	N/A	240

  

K48 - EAL Level 4 NVQ Extended Diploma in Engineering Manufacture (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K48a	600/9576/3	EAL	107	461	N/A

  

K49 - City & Guilds Level 4 NVQ Extended Diploma in Engineering Manufacture (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K49a	600/9529/5	City & Guilds	107	461	N/A

  

K50 - EAL Level 4 NVQ Diploma in Engineering Manufacture (QCF)					
No.	Ref no.	Awarding organisation	Credit value	Guided learning hours	UCAS points value
K50a	600/9486/2	EAL	80	635	N/A

## Combined qualifications available to this pathway

N/A

## Relationship between competence and knowledge qualifications

To gain recognition as a Master Craftsperson at Level 4, learners have to:

- achieve one relevant competence qualification from C1 - C4

and

- achieve one knowledge qualification from K1- K50

Delivery methods for knowledge based qualifications may vary, from a conventional college based environment, to delivery through a combination of this and written/web-based/distance learning materials.

**NOTE: Qualifications that are not on the Qualifications in Wales (QiW) database will not be eligible for funding.**

If you wish to receive funding for a particular qualification, please check if it is on the database using this link <https://www.qiw.wales/qualifications/search?lang=en>

# Transferable skills (Wales)

## Essential skills (Wales)

	Minimum level	Credit value
Communication	2	6
Application of numbers	2	6
IT	2	6

## Progression routes into and from this pathway

While significant numbers of candidates will seek internal progression to team leader or supervisory or further coaching/mentoring roles within their companies, some will want to progress to a Higher Apprenticeship in Engineering.

More generally, most participants aspire to a combination of internal promotion while at the same time undertaking company sponsored qualifications.

To further assist apprentices plan their careers we recommend they visit the following websites:

<http://www.apprenticeships.org.uk/be-an-apprentice/the-benefits.aspx>

[nationalcareersservice.direct.gov.uk/advice/planning/job\\_family/Pages/manufactureandengineering.aspx](http://nationalcareersservice.direct.gov.uk/advice/planning/job_family/Pages/manufactureandengineering.aspx)

### UCAS points for this pathway:

*(no information)*

# Employee rights and responsibilities

**Employee Rights and Responsibilities (ERR)** is no longer compulsory, but Semta recommends that all Master craftsperson's have knowledge and understanding of the ERR when inducting, coaching and mentoring others in the workplace.

There are two methods of achieving ERR as set out below:

## Method 1 - Qualifications

- EAL Level 2 Award in Employment Rights and Responsibilities for new Entrants into the Science, Engineering and Manufacturing Sectors (QCF) 600/0290/6
- Pearson BTEC Level 2 Award in WorkSkills for Effective Learning and Employment (QCF) 501/1793/2
- City & Guilds Level 2 Subsidiary Award in Employment and Personal Learning at Work (QCF) 600/2819/1
- Agored Cymru Level 2 Award In Employment Rights and Responsibilities (QCF) 600/7776/1

## Method 2 - Workbook

Semta has produced an Apprentice ERR workbook that is available from:

[customercare@eal.org.uk](mailto:customercare@eal.org.uk)

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

## How equality and diversity will be met

Semta recognises the training and business benefits of having apprentices from a wide variety of diverse backgrounds. We are committed to ensuring equality and diversity drives all aspects of apprentice selection and recruitment. Equal opportunity and diversity refers to the active elimination of unlawful or unfair discrimination against any person or group on the grounds of gender, race, colour, nationality, ethnic origin, religion, age, sexual orientation, marriage and civil partnership, pregnancy and maternity, political belief, disability and where appropriate, prison/offender background where this is deemed irrelevant.

Despite the encouraging numbers of both female participants and ethnic minorities on the Engineering Manufacturing framework at Level 3 and similar frameworks, the engineering sector still has a significant way to go to encourage women into engineering and manufacturing careers.

Semta wishes to make a Gender Equality Commitment. Semta has signed the United Kingdom Resource Centre (UKRC) CEO's charter in a bid to step up female recruitment in its key sectors and programmes. Due to impending skills gaps it is estimated that 187,000 people will be required to be recruited and trained between 2010-2016 within Semta's sectors of aerospace, automotive, composites, electrical, electronics, maintenance, marine, mathematics, metals and engineered metal products, renewables and science.

The UKRC is the Government's leading body for advanced gender equality in science, engineering and technology (SET) and the CEO's charter is a formal commitment to the UKRC's agenda to challenge the under-representation of women in SET. Women make up 50% of the labour market, yet they make up less than 20% of the labour market in science, engineering and technology.

The UKRC believes that only a concerted effort by the SET industry will break down the gender barriers that exist in traditionally male-dominated environments and we want to be part of a new consensus which will create an inclusive working environment for women. The manufacturing industries in which this scheme operates are traditionally dominated by a white, male workforce. However, faced with an aging workforce and the probability of skill shortages we must look to attract new entrants from a much more diverse recruitment pool. This means that all young people and adults considering engineering and manufacturing as a career are welcome, provided they meet the entry requirements.

Employers and Providers must be able to demonstrate there are no overt or covert

discriminatory practices in the selection and employment of participants. This can be demonstrated by implementing a Single Equality Scheme (SES). The new Equality Duty (part of the Single Equality Bill) introduced to the public sector requires all public sector bodies to produce a SES combining their current race, disability and gender schemes and should be recognised by all providers of apprenticeship training. The implementation of a SES demonstrates the organisation's commitment to equality and diversity by identifying new and improved ways of working to ensure the organisation is more efficient and effective in meeting the diverse needs of both staff and customers.

All those who recruit participants on this scheme must comply with the Equality act of 2010 and apply the Equality and Diversity legislation taking full account of the following:

- The Sex Discrimination Act 1975 and Code of Practice
- The Race Relations Act 1976 and Code of Practice
- The Disability Discrimination Act 1995 and Code of Practice
- Employment Equality (Religion or Belief) Regulations 2003
- Employment Equality (Sexual Orientation) Regulations 2003
- Employment Equality (Age) Regulations 2006
- The Equality Act 2010

Employers and training providers must also actively monitor equality of opportunity and diversity procedures and take positive action where necessary to ensure equal access and treatment for all.

Download the guidance on the Equality Act here:

[www.equalityhumanrights.com/advice-and-guidance/new-equality-act-guidance/](http://www.equalityhumanrights.com/advice-and-guidance/new-equality-act-guidance/)

# On and off the job training (Wales)

## Summary of on- and off-the-job training

The time taken to complete the scheme may vary depending on previous experience and attainment of the candidate. Where a candidate enters the scheme agreement having previously attained or acquired some or all of the appropriate competence or knowledge, this prior learning needs to be recognised and documented using the relevant Recognition of Prior Learning (RPL) procedures.

Both on and off-the-job training hours need to be planned, reviewed and jointly evaluated between the coach/mentor, training instructor, tutor or lecturer and workplace supervisor and where relevant the coach/mentors' mentor. The coach/mentor should have access to training support at all times, whether on or off-the job training.

On and off-the job training hours should be delivered through a variety of learning methods, such as individual and group teaching, team-working, e-learning, distance learning, coaching, mentoring, feedback and assessment.

## Off-the-job training

Off-the-job training is defined as time for learning activities away from normal work duties or away from the immediate pressures of the workplace.

The training hours required to undertake the chosen coaching/mentoring or knowledge qualifications will vary according to the qualification and units selected.

## How this requirement will be met

### Off-the-job training needs to:

- achieve clear and specific outcomes which contribute directly to the successful achievement of the scheme and this may include accredited and non-accredited elements of the framework
- be planned, reviewed and evaluated jointly between the candidate and a tutor, teacher, leader or manager
- allow the participant access as, and when required to tutors, teachers, leaders or manager
- 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 and induction.

It is recommended that a manager/supervisor is appointed for each candidate to review their progress on a regular basis. It is estimated that a manager/supervisor will have up to 2 hours per week contact time with each candidate and this activity will take place off-the-job.

## On-the-job training

### Pathway 1

The hours required to undertake the chosen competence qualification will vary according to the qualification and units selected.

### How this requirement will be met

This must be assessed in a work environment and must be assessed in accordance with specific Awarding Organisation's guidelines and assessment criteria.

On-the-job training should:

- achieve clear and specific outcomes which contribute directly to the successful achievement of the scheme and this may include accredited and non-accredited elements of the scheme
- be planned, reviewed and evaluated jointly between the candidate and the tutor, teacher, mentor or manager
- allow access as and when required by the candidate either to a tutor, teacher, mentor or manager
- be delivered during contracted working hours

# Wider key skills assessment and recognition (Wales)

## Improving own learning and performance

No longer required

## Working with others

No longer required

## Problem solving

No longer required

# Additional employer requirements

There are no additional employer requirements for this framework

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apprenticeship  
FRAMEWORKS ONLINE

For more information visit  
[www.afo.sscalliance.org](http://www.afo.sscalliance.org)