

Apprenticeship standard (England only)

# Engineering Technician (Maritime Electrical Fitter)

Industry: **Engineering**

City & Guilds code: **4615-02, 4715-02,  
4615-03 and 4715-03**

LARS number: **167**



A City & Guilds Group Business

 **Typical duration: 42-48 months**

 **Funding band: 15 (£27,000)\***

 **Levels 2 and 3**

\*Funding bands from May 2017.

**On-programme learning:** Registrations open from September 2017

**End-point assessment:** We do not intend to deliver this

Our Maritime Electrical Fitter apprenticeship offer provides all the on-programme materials you need to sustain flexible delivery models that are cost effective, time efficient and meet the learning styles of your apprentices, ensuring they are motivated to be successful, productive in their roles and are fully prepared for end-point assessment.

BIS approved the new Maritime Electrical Fitter apprenticeship pathway in March 2017, which is included in the Engineering Technician and is a direct replacement for the existing Level 2 Diploma in Engineering (2850), Level 2 NVQ Diploma in Performing Engineering Operations (7682), Level 2 Diploma in Engineering (2850) and Level 3 NVQ Extended Diploma in Engineering Maintenance (1788).

Developed to meet the needs of employers and designed with input from an employer group including: BAE Systems, Airbus Group, The Institution of Engineering and Technology, British Airways, Rolls-Royce plc, Royal Aeronautical Society, Royal Air Force Cosford, Royal Navy, Institution of Mechanical Engineers, Siemens plc, Jaguar Land Rover, BMW, Toyota Motor Manufacturing (UK) Ltd and Babcock International Ltd.

## City & Guilds – helping you with a tailored package

Our team has been working together with our well established network of specialists, colleges and providers, to develop the right tools to support on- and off-the-job training.



### Qualification

Mandatory qualifications enhance on-programme learning.



### Learning Assistant

Tracks progress online in real time.



### Guidance documents

The qualification handbooks contain all of the skills and knowledge with learning guidance.

Our exclusive on-programme offer has been designed to keep your apprentices motivated and on track for successful end-point assessment.

For more information please visit [cityandguilds.com](http://cityandguilds.com)

The maritime electrical fitter apprentice applies engineering drawings, figures and records to commence the production, installation, testing, checking for faults, maintenance and elimination of electrical systems on maritime vessels. This will include propulsion machinery, sensors and weapons. This will involve awareness and skills of using common and high-quality electrical machinery and equipment and using tools to ensure machineries meet the necessary requirements.

### The apprentice journey



#### 1. On-programme, on-the-job and off-the-job training

Training and development takes place during this part of the apprenticeship, which may include a qualification if it is identified as a requirement in the standard.

Formative assessment of skills, knowledge and behaviours is required in the delivery of the standard and this will be outlined in the assessment plan.

Maths and English are required (level varies according to the standard).

### 1. On-programme: What is required in the Assessment Plan?

There are mandatory on-programme qualifications for this apprenticeship. After a period of foundation skills and technical development all apprentices will be required to achieve the following qualifications:

4615-02 Level 2 Diploma in Maritime Defence (Foundation Competence)

4715-02 Level 2 Diploma in Maritime Defence (Foundation Knowledge)

After a further period of skills technical knowledge development all apprentices will be required to achieve the following qualifications:

4615-03 Level 3 Diploma in Maritime Defence (Development Competence)

4715-03 Level 3 Diploma in Maritime Defence (Development Knowledge)

### How our offer supports on-programme delivery



#### Mandatory qualification

The mandatory units of the 4615-02, 4715-02, 4615-03 and 4715-03 are closely aligned to the content of the apprenticeship standard and enhance the on-programme learning for the apprentice and employer. These qualifications have been designed specifically to meet the requirement for the on-programme part of the apprenticeship to ensure that all apprentices are fully prepared to undertake their end-point assessment.



#### Learning Assistant

Learning Assistant is an innovative and cost-effective e-portfolio solution that allows colleges and training providers to improve dramatically the delivery of their vocational qualification by tracking progress online in real time.



#### Guidance documents

- The qualification handbooks contain all of the skills and knowledge with learning guidance.
- Sample assessment materials.

### Maths and English requirements

If your apprentices need to complete maths and English, our popular Functional Skills qualifications fit within apprenticeship programmes and cover the core maths and English requirements for the workplace and further study. We have an extensive support package available, including e-Functional Skills, and an online teaching and learning platform, which guides learners from an initial and a diagnostic assessment, through to being exam ready.

Find out more: [cityandguilds.com/functionalskills](https://www.cityandguilds.com/functionalskills)

## 2. Gateway

The employer and provider must sign off the apprentice as ready to move on to end-point assessment.

## 3. End-point assessment

The end-point assessment must demonstrate that the apprentice can perform in the occupation in a fully competent, holistic and productive way.

The assessment will be graded if required by the standard.

The assessment organisation and assessor must be independent of, and separate from, the training provided by the provider and employer.

## 4. Apprenticeship certification

On successful completion, the end-point assessment organisation will apply to the ESFA for the apprenticeship certification. The certificate will then be sent to the apprentice's employer.

## 2. Gateway

To move on to end-point assessment, the apprentice will need to complete the mandatory qualifications and will typically have four GCSEs at grade C or equivalent maths, English and science and show evidence of the required behaviours.

The qualification requirements in the foundation and development phases are mandatory outcomes for the completion and final certification of the apprenticeship standard. Each qualification has a core and options approach and employers will select the pathway and unit options that meet their organisational requirements.

### Gateway 1: Review and assessment – undertaken by the employer

The following must be completed for the apprentice to progress to the Development Phase of the apprenticeship:

- the employer-specified Level 2 Foundation Occupational Competence Qualification
- where applicable the Level 2 Foundation Knowledge Qualification and/or satisfactory achievement /progress towards Year 1 Level 3 Technical Knowledge units as applicable to the occupational pathway requirements
- satisfactory progress towards the employer-required behaviours.

### Gateway 2: Review and assessment – undertaken by the employer

To be ready for end-point assessment the apprentice must have achieved:

- pass, merit or distinction in the selected Level 3 Technical Knowledge Qualification
- a binary grade pass in the Level 3 Occupational Competence Qualification
- the required behaviours aligned to EngTech or Military Professional Competence (MPC)
- English and maths qualifications at Level 2.

## 3. End-point assessment

City & Guilds has not applied to be an approved assessment organisation on the Register of Apprentice Assessment Organisations (RoAAO) for this apprenticeship standard.

End-point assessments will be carried out by an employer-nominated End Assessment Organisation i.e. a Professional Engineering Institution (PEI) or Military Independent Assessment Authority (MIAA).

## End-point assessment methods



### Occupational Competence Validation Interview (Viva)

The employer undertakes a portfolio-based Occupational Competence Validation Interview (Viva). This will be binary pass/fail graded.



### Assessment of Professional/Military Competence

A nominated Professional Engineering Institution (PEI) or Military Independent Assessment Authority (MIAA) undertakes the independent assessment to determine if the apprentice has met the Engineering Technician requirements as defined by the UK-SPEC or relevant Military Professional Competence (MPC) requirements. This will be graded pass/fail.



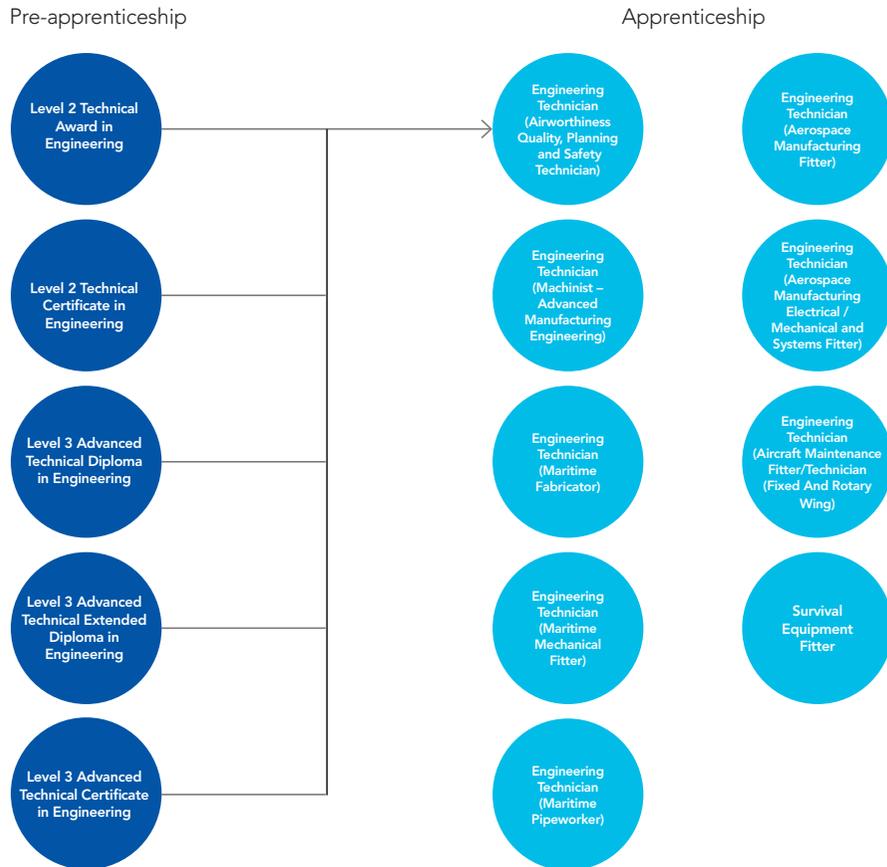
## 4. Apprenticeship certificate

In order for the PEI/MIAA (employer-nominated end-point assessment organisation) to apply for the apprenticeship completion certificate, the PEI will be in receipt of and have quality assured the employer portfolio-based occupational competence Viva Interview document signed by the employer and confirmed that the apprentice has achieved the correct mandatory qualifications specified in the standards and assessment plan. They will confirm that the apprentice has met the criteria for EngTech/MPC and has received a final overall apprentice sign-off from the employer.

# Apprenticeships are changing. Our commitment to you never will.

## Progression in the Maritime industry with City & Guilds

This apprenticeship is part of our wider offering in the engineering sector. We provide the following apprenticeship opportunities.



## Our commitment to you

Complementing our support materials for this standard, at City & Guilds we are dedicated to supporting your wider apprenticeship strategy, with a range of events and webinars run by industry specialists to advise and guide you on preparing for apprenticeship delivery and understanding the new standards and funding.

Our consultancy team runs free to fee options to help you prepare for apprenticeship delivery and understanding the new standards and funding.

## Information about events, webinars and our consultancy is online:

[cityandguilds.com/apprenticeships](http://cityandguilds.com/apprenticeships)

## How our offer supports you

### Technical support

Our Technical Advisor and Industry Manager and are always on hand to answer any questions you might have about end-point assessment.

### Customer Services Team

Our dedicated Business Managers and Customer Support Team are here to support you and your learners throughout all aspects of apprenticeships from registration to completion.



### More information

Visit Walled Garden to find out prices and if any elements are extra to the package.

Please contact your Business Manager or [apprenticeships@cityandguilds.com](mailto:apprenticeships@cityandguilds.com) for further information.

This apprenticeship aligns with the competence to EngTech requirements – the recognised generic professional institution standard for Engineering Technicians. This is new and is supported by the relevant Professional Engineering Institutions (PEIs). It provides an opportunity to establish future development activity for apprentices, linked to continued professional development. In the case of the military, we have introduced an alignment to the trade-specific Military Professional Competence (MPC) requirements.