



EAL Level 2 Diploma in Maritime Defence (Foundation Knowledge)

Qualification specification

Overview

This qualification has been developed to provide learners with an intermediate knowledge and understanding of the practices and processes of a range of maritime defence engineering techniques. It covers the knowledge and understanding that is relevant to a wide variety of careers and study routes and take a hands-on approach to maritime defence engineering training.

Typical job roles

- Maritime mechanical fitter
- Maritime electrical fitter
- Maritime pipeworker
- Maritime fabricator

Qualification code:

603/2311/5

Level:

2

TQT:

Minimum 350 hours

Minimum learning age:

16



Purpose of the qualification

What is this qualification?

This qualification is a Level 2 Diploma in Maritime Defence (Foundation Knowledge) and is a Vocational Related Qualification (VRQ). It will give learners knowledge and understanding of a range of maritime defence engineering techniques. The qualification covers the intermediate knowledge and understanding that is required by someone working in the maritime defence engineering sector. It takes a hands-on approach to foundation maritime defence engineering training by providing learners with:

- knowledge and understanding of a range of maritime defence engineering techniques
- information that will help them make more informed decisions about their career options
- personal skills to help them work effectively and achieve their potential

This is a graded qualification; learners can achieve a Pass, Merit or Distinction.

What does this qualification cover?

The qualification covers the specific knowledge and understanding of a range of maritime defence engineering disciplines which have been developed in consultation with employers, engineering industry specialists and training providers to ensure that it meets the needs of industry employers and learners.

The content and structure of the qualification has been developed to provide the appropriate level of knowledge and understanding required to be achieved and assessed to demonstrate full occupational knowledge in the foundation phase of the apprenticeship.

The qualification units are listed in Section 3.

This qualification is a Level 2 Diploma and has a minimum Total Qualification Time of 350 hours.

Who is this qualification for?

- apprentices working towards a relevant apprenticeship standard
- apprentices looking to advance to the development phase of a relevant apprenticeship standard

Who supports the qualification?

This qualification is:

- Accredited at Level 2 of the Regulated Qualifications Framework (RQF)
- Endorsed by employers as facilitating the completion of the foundation knowledge appropriate for the maritime defence engineering sector

What could this qualification lead to?

Typical job roles include:

- Maritime mechanical fitter
- Maritime electrical fitter
- Maritime pipeworker
- Maritime fabricator

The qualification will provide progression onto other suitable and appropriate Level 3 and Level 4 engineering and manufacturing qualifications.

Entry requirements

Apprentices must be at least 16 years old. There are no formal entry requirements for this qualification; however centres should ensure that the apprentice have the potential to achieve this qualification. Apprentices must have the minimum levels of literacy and numeracy to complete the learning outcomes and the external assessment.

Centres should make apprentices with particular requirements aware of the content of the qualification and they should be given every opportunity to successfully complete the qualification. EAL will consider any reasonable suggestions for, and from, those with disabilities that would help them to achieve the learning outcomes without compromising the standards required.

How is the qualification achieved?

The qualification is achieved when all the necessary units have been completed. The centre will then be able to apply for the apprentice's certificate of achievement. The apprentice will also receive a certificate of unit credit, listing all the units they have achieved.

What will be assessed?

This qualification is made up of units to which appropriate assessment methods, chosen by the maritime defence engineering employer group, have been applied. The units contain the learning outcomes and the assessment criteria that the learner is to be assessed against.

All learning outcomes within the qualification will be assessed. In order to meet this requirement, it is advised that centres should maintain an assessment and feedback record for each learner. This will detail the evidence evaluated against the learning outcome and the feedback given to the learner. All learner evidence must be available to the EAL external quality assurer.

Grading criteria

Learners must achieve a Pass in ALL components for the qualification to be awarded. If learners are unsuccessful in one or more of the assessment components then the overall result for the qualification will be 'referred' and a certificate will not be awarded.

Providing learners are successful in ALL assessment components, the final grade for the qualification will be determined from the grades achieved by learners in the external examination within the mandatory unit and the centre marked assessments within the optional units.

Please refer to the Grading Criteria within the Delivery Packs and Assessment Packs on how to grade individual units.

How will it be assessed?

Assessment methods within this qualification include an on-screen multiple choice examination for one mandatory unit and Centre marked theory assessments for the other units. Assessment methods have been designed to assess the knowledge and understanding of learners for all units.

The on-screen multiple choice examination is set by EAL and marked by EAL. The internal assessments are set by EAL and marked by members of the delivery team at the Centre.

Where the assessment takes the form of written/short answer or multiple choice question papers, these must be treated as controlled assessments.

All assessment decisions are then subject to internal and external quality assurance.

Structure

This qualification can be achieved by the apprentice by completing the mandatory units plus the required number of optional units

Mandatory units: *all three mandatory units must be completed:*

EAL Code	Unit title	GL(hrs)	Ofqual Code
MDEK2-001	Working in a marine engineering environment	60	D/616/2442
MDEK2-002	General engineering principles	60	H/616/2443
MDEK2-003	General engineering mathematics and science	60	K/616/2444

Optional units: *a minimum of three optional units must be completed from the following:*

MDEK2-004	Business-Improvement Techniques	50	M/616/2445
MDEK2-005	Principles of electrical and electronic technology	60	T/616/2446
MDEK2-006	General machining applications (turning and milling)	60	A/616/2447
MDEK2-007	Principles of welding and fabrication	60	F/616/2448
MDEK2-008	Principles of pipework fabrication	60	J/616/2449
MDEK2-009	Principles of electrical maintenance	60	A/616/2450
MDEK2-010	Principles of mechanical maintenance	60	D/616/2451
MDEK2-011	Assembling and maintaining fluid power systems	60	J/616/2452
MDEK2-012	Constructing, testing and fault finding electronic circuits	60	L/616/2453
MDEK2-013	Electrical inspection and testing	60	R/616/2454
MDEK2-014	Thermal cutting techniques	60	Y/616/2455
MDEK2-015	Sheet metalwork techniques	60	D/616/2456
MDEK2-016	Plate metalwork techniques	60	H/616/2457
MDEK2-017	Principles of mechanical assembly and fitting	60	K/616/2458
MDEK2-018	Principles of Computer Aided Design (CAD)	60	M/616/2459

