



Level 3 Diploma in **EQUIPMENT MAINTENANCE ENGINEERING**

Qualification Specification

Overview

This qualification has been developed to provide learners with underpinning knowledge and related practical skills in working in a maintenance environment and diagnosis of: engine and component faults, transmission and driveline faults, electrical equipment and component faults and chassis systems and component faults

Typical Job

Equipment Maintenance Engineer.

Qualification code:	600/1026/5
Level:	3
Credit value:	46
Total qualification time:	460
Guided learning hours:	350
Minimum learning age:	16

Purpose of qualification

The EAL Level 3 Diploma in Equipment Maintenance Engineering is a Vocational Related Qualification (VRQ). It is designed to evidence the knowledge and understanding requirements of the VRQ, but to the standard as expressed within the relevant Ministry of Defence (MoD) Formal Training Standard (FTS).

It covers the advanced level knowledge and understanding of equipment maintenance engineering and has been developed in consultation with colleges and industry to ensure that it meets the needs of employers and learners.

What does this qualification cover?

This qualification has five mandatory units, which provides learners with an understanding of working in a maintenance environment, diagnosis of engine and component faults, diagnosis of transmission and driveline faults, diagnosis on electrical equipment and component faults and diagnoses on chassis systems and component faults. The qualification structure is listed on page 3 .

Who is this qualification for?

This qualification is predominantly for learners completing an advanced level Apprenticeship in the MoD.

It is suitable for learners aged:

- 16-18
- 19+.

Who supports this qualification?

This qualification is:

- Regulated at Level 3
- Endorsed by a number of post-16 providers..

What could this qualification lead to?

Typical job roles include:

Equipment maintenance Engineer.

This qualification relates to:

- EAL Level 3 Subsidiary Diploma in Engineering Technologies
- EAL Level 3 Diploma in Engineering Technologies
- EAL Level 3 Extended Diploma in Engineering Technologies
- EAL Level 3 Extended Diploma in Engineering Maintenance
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Further information about apprenticeships and industry recognised qualifications in the engineering sector can be obtained from the EAL website.

Entry requirements

Learners must be at least 16 years old. There are no formal entry requirements for this qualification. However, learners must have the potential to achieve all aspects of the qualification. In particular, learners should be able to demonstrate that they have the minimum levels of literacy and numeracy required to comply with the health and safety aspects of the scheme, the completion of the learning outcomes, and the assessments.

How is the qualification achieved?

This qualification will be achieved when the learner has successfully completed:

- One mandatory unit, comprising one externally set and marked multiple-choice examination (QDCM-001)
- Four mandatory units comprising Centre marked practical/theory assessments.

What will be assessed?

This qualification is made up of units to which appropriate assessment methods 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

This qualification is graded pass or refer.

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 learner will achieve a pass in their qualification.

How will it be assessed?

Assessment methods within this qualification include an on-screen multiple choice examination for the mandatory unit QDCM-001 and a Centre marked practical and theory assessments for the other four mandatory units. Assessment methods have been designed to assess the knowledge, understanding and skills of learners for all units.

The on-screen multiple choice examination is set by EAL and marked by EAL. The internal assessment is 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 will be obtained by the learner once they have successfully completed the **five mandatory units** from the units listed below.

The qualification has 46 credits and 350 Guided Learning Hours (GLH) and 460 hours Total Qualification Time (TQT).

Mandatory units:

Unit	Unit title	Credit	GLH	Ofqual Code
QDCM/001	Working in a Maintenance Environment	6	50	D/602/2455
QETA/072	Diagnosis of Engine and Component Faults	10	75	M/502/9125
QETA/073	Diagnosis of Transmission and Driveline Faults	10	75	A/502/9130
QETA/074	Carry Out Fault Diagnosis on Electrical Equipment and Circuits	10	75	J/502/9132
QETA/075	Diagnosis of Chassis System and Component Faults	10	75	Y/502/9135