



EAL Level 3 Electrotechnical Qualification



Qualification Specification

Overview

This qualification forms part of an industry recognised apprenticeship for electrical apprentices. To demonstrate occupational competence the learner must also complete the AM2S - which does not form part of the qualification.

Typical Job

Installation Electrician, Maintenance Electrician.

Qualification code:	601/7345/2
Level:	3
Guided learning hours:	743
Total qualification time:	864 hours
Age range:	16-18 and 19+

Purpose of the qualification

The EAL Level 3 Electrotechnical Qualification forms part of an industry recognised apprenticeship and will facilitate the learners understanding and skills in electrical installation/maintenance, relevant to their job role. The qualification has two pathways:

- EAL Level 3 Electrotechnical Qualification (Installation)
- EAL Level 3 Electrotechnical Qualification (Maintenance).

It has also been mapped to satisfy the requirements for registration as EngTech with the IET.

What does this qualification cover?

This qualification comprises of knowledge and performance units which between them cover: health, safety and environmental considerations, organising and overseeing, terminating and connecting, inspection, testing and commissioning; fault diagnosis and rectification, electrical scientific principles, BS 7671; electrical design; and electrical maintenance. It requires occupational evidence from the workplace.

Who is this qualification for?

Apprentices who wish to work toward becoming become a competent electrician (by completion of this qualification and the AM2S).

THIS QUALIFICATION AND THE AM2 IS NOT A RECOGNISED ROUTE FOR AN ECS CARD. (Apprentices must complete the **AM2S**).

Who supports this qualification?

This qualification:

- is regulated at Level 3,
- is supported by the IET,
- forms part of an Industry recognised apprenticeship standard.

Typical job roles are:

Installation electrician and maintenance electrician

What could this qualification lead to?

This qualification relates to:

- EAL qualifications in inspection and testing
- EAL Level 3 Award In the In-Service Inspections and Testing of Electrical Equipment (PAT) 600/4340/4
- EAL Level 4 Award in the Design and Verification of Electrical Installations
- EAL Qualifications in environmental technology systems.
- It can also lead to a successful career in the electrotechnical sector.

Entry requirements

Learners must be at least 16 years old. The qualification is for apprentices.

There are no formal academic 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 numerary required to comply with the health and safety aspects of the scheme, the completion of the learning outcomes, and the assessments. The qualification requires occupational evidence from the workplace.

How is the qualification achieved?

This qualification will be achieved when the learner has successfully completed all the knowledge and performance units and their related assessments.

What will be assessed?

This qualification is made up of knowledge and performance units. The assessments will cover the theory and practical skills required by an electrician.

How will it be assessed?

Knowledge units are assessed by a mixture of on-screen assessments, centre marked assignments and written assessments. Performance units require auditable evidence of competent performance from the workplace (portfolio). All learner evidence must be available to the EAL EQA.

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

Grading Criteria

The qualification as a whole is ungraded, and only a pass can be achieved. However, the results from two of the tests for the unit: Electrical Scientific Principles and Technologies will appear on the learner's certificate.

These two assessments are graded on the first attempt only: Pass, Merit, Distinction; (or Fail). Any resitting will only be subject to a Pass grade maximum.

Structure

This qualification will be obtained by the learner once they have completed the mandatory units and one of the optional pathway performance units. This diploma has 743 guided learning hours (GLH) and a total qualification time (TQT) of 864 hours. The learner must complete the relevant knowledge units prior to the performance units. To demonstrate occupational competence the learner must also achieve the AM2S test (not part of qualification).

Mandatory Knowledge Units:

Unit	Unit title	GLH	Ofqual Code
NETK3/01	Understand Health, Safety and Environmental Considerations	65	H/507/7334
NETK3/03	Understand How to Plan and Oversee Electrical Work Activities	40	K/507/7335
NETK3/04	Understand Design and Installation Practices and Procedures	170	M/507/7336
NETK3/05	Understand Terminations and Connections of Conductors	93	T/507/7337
NETK3/06	Understand Inspection, Testing and Commissioning	78	A/507/7338
NETK3/07	Understand Fault Diagnosis and Rectification	32	F/507/7339
NETK3/08	Electrical Scientific Principles and Technologies	115	T/507/7340
NETK3/18ED	Understand the Requirements of Electrical Installations BS 7671:2018	70	T/617/1336

Mandatory Performance Units:

Unit	Unit title	GLH	Ofqual Code
NETP3/01	Apply Health, Safety and Environmental Considerations	10	F/507/7342
NETP3/03	Organise and Oversee the Electrical Work Environment	12	J/507/7343
NETP3/05	Terminate and Connect Conductors	12	L/507/7344
NETP3/06	Inspect, Test and Commission Electrical Systems	16	R/507/7345
NETP3/07	Apply Fault Diagnosis and Rectification	10	Y/507/7346

(Optional pathways on next page)

Structure

Pathway NETBI - Installation Optional Performance Unit:

Unit	Unit title	GLH	Ofqual Code
NETP3/04	Apply Design and Installation Practices and Procedures	20	D/507/7347

Pathway NETBM - Maintenance Optional Performance Unit:

Unit	Unit title	GLH	Ofqual Code
NETP3/09	Apply Practices and Procedures for Maintenance	20	H/507/7348