



EAL Level 4 Award in the Design and Verification of Electrical Installations



Qualification Specification

Overview

This qualification covers the processes and practices involved in designing electrical installations. The emphasis is on the safe and ergonomic design on an installation which complies with relevant statutes, regulations; industry standards, and sound engineering practices.

Typical Job

Facilitates career progression in electrical contracting industry including jobs roles as a designer and technician.

Qualification code:	601/8231/3
Level:	4
Guided learning hours:	30
Age range:	16-18 and 19+
Total qualification time (hours):	100

Purpose of the qualification

This qualification provides an opportunity for electricians to take electrical design to the next level. It will expand their knowledge and understanding of electrical installation design.

What does this qualification cover?

This qualification comprises of a single knowledge unit which covers design calculations and the application of BS 7671 and related statutory and non-statutory requirements and guidance in the safe and effective design of an installation.

Who is this qualification for?

- Those who wish to further their career in the electrotechnical sector
- Learners who wish to demonstrate their ability in electrical installation design
- Those who wish to obtain an Industry recognised qualification.

Who supports this qualification?

This qualification is:

- Accredited at Level 4
- Industry recognised
- Supported by Certsure (NICEIC)
- Supported by the JIB.

Typical job roles are:

Electrical installation designer and/or technician.

What could this qualification lead to?

This qualification relates to:

- EAL Level 3 Award In the Initial Verification and Certification of Electrical Installations (QCF) 600/4337/4
- EAL Level 3 Award In the Periodic Inspection, Testing and Certification of Electrical Installations (QCF) 600/4338/6
- EAL Level 3 Award In the In-Service Inspections and Testing of Electrical Equipment (PAT) (QCF) 600/4340/4
- EAL Level 3 Award In Requirements for Electrical Installations BS 7671: June 2008 (2015) (QCF) 601/5321/0
- EAL Apprenticeship qualifications and qualifications in environmental technology systems.
- Other further/higher level study.

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 for 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 the assessments relating to the single knowledge unit.

What will be assessed?

The learners ability in various aspects of electrical installation design of single and three-phase circuits.

How will it be assessed?

The assessment of this qualification involves the following **two** aspects:

- 1) An EAL set centre marked project

OR:

Learners real world projects which evidence the assessment criteria to the equivalent complexity.

- 2) A written controlled knowledge assessment which is graded Pass, Merit, Distinction or Fail.

All assessment decisions are 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 grade (Pass, Merit, Distinction) from the written controlled knowledge assessment will show on the learner's certificate on successful completion of the qualification. The examination grade will then indicate to any current or future employer as well as the learner their ability to progress further (such as further or higher study).

The project is graded pass or fail only.

Structure

This qualification will be obtained by the learner once they have achieved the single unit below:

Unit	Unit title	GLH	Ofqual Code
ED4-01	Design, construction management and initial verification of electrical installations	30	J/507/9710