



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

This qualification is for those who wish to obtain an understanding of the concepts, processes and practices involved with the design, construction and initial verification of electrical installations. The emphasis is on the safe and ergonomic design on an installation which complies with relevant regulations; industry standards, and sound engineering practices.

**Course duration** 5 days (plus additional time commitment for project assignment)

### Who should attend?

There are no formal entry requirements for this qualification. However, candidates must have the potential to achieve all aspects of the qualification. In particular, candidates 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.

It is recommended that candidates have completed a recognised electrical apprenticeship, or as a minimum, hold qualifications covering inspection and testing, and a current qualification relating to BS 7671.

### Learning outcomes

This qualification comprises of a single knowledge unit which has 30 guided learning hours (GLH) and covers:

- Relevant statutory and non-statutory requirements
- Electrical installation design
- Installation methods
- Verification procedures

Design, installation and verification are in line with the requirements of BS 7671.

### Course outline

It covers design calculations and the application of BS 7671 and related guidance in the safe and effective design of an installation.

## Achievement of qualification

This qualification is gained when the unit and related assessments have been achieved.

There will be a 12-month limit for candidates to complete, starting at the first date of the 30 GLH delivery.

## Assessment

The assessment of this qualification involves the following two aspects:

- 1) An EAL set centre marked assignment. OR Learner's real-world projects which evidence the assessment criteria to the equivalent complexity.
- 2) A centre marked controlled and graded knowledge assessment (written paper).

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 candidates' certificate on successful completion of the qualification.

The project assignment is graded pass or fail only.

### Centre marked (written) controlled knowledge assessment

This is an open book centre marked and graded short answer written paper with a duration of 180 minutes.

## Assignment

This assessment is set by EAL and marked by members of the delivery team at the training centre. All assessment decisions are then subject to internal standardisation and external quality assurance.

Evidence for the project must be prepared by the candidate unaided and without the use of software for carrying out calculations i.e. for determining cable sizes - as this will not demonstrate the candidate's ability.

Candidates may use any relevant source of information to assist them with the completion of the project, such as the list of publications for the written paper (previous page), manufacturer's information, and the internet.

## Recognition of prior learning

Candidates will be able to utilise their own real-world work-based projects to act as evidence for recognition of prior learning (RPL) against the centre marked assignment. Please refer to Certsure for further guidance.

## What do I need to have with me?

### Essential

- Non-programmable calculator
- Ruler, pens, pencils, rubber
- BS 7671
- IET Electrical Installation Design Guide: Calculations for Electricians and Designers
- IET Guidance Note: Guidance Note 1

### Additionally the following can also be used

- NICEIC Site Guide
- IET On-Site Guide
- IET Guidance Notes

Assessment body



## Next steps

Other courses which may be of interest to you:

Level 3 Award in the Initial Verification and Certification of Electrical Installations

Level 3 Award in the Periodic Inspection, Testing and Certification of Electrical Installations

Level 3 Award in Requirements for Electrical Installations

Qualifications in environmental technology systems

Other further/higher level study

## Why train with us?

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