



Introduction

This guidance explains the Electrical Underpinning Knowledge and Understanding Test, which is for experienced electricians (10+ years in the trade) who don't yet have a Level 2 or 3 qualification.

The test checks if you have the knowledge needed to join one of the Experienced Worker Assessment (EWA) routes. It is not a shortcut – it's a full Level 3 standard test.

Assessment overview

- Assessment type: on-screen, open book, multiple choice and scenario-based questions.
- Number of questions: 50.
- Time allowed: 100 minutes.
- Pass requirement: learners must obtain at least 60% in both parts to pass this examination.

Permitted resources

- Open book exam: candidates will require the current versions of:
 - IET On-Site Guide
 - BS 7671:2018
- A non-programmable calculator may be used.

What you need to demonstrate

To pass the test, you will need to show breadth and depth of knowledge and understanding covering the areas listed below.

Part 1 – on-screen exam. Most questions have four answer options.

- How relevant legislation applies in the workplace.
- The procedures for establishing a safe working environment.
- The requirements for identifying and dealing with hazards in the work environment.
- How to prepare for the installation of wiring systems.
- The practices and procedures for carrying out electrical work.
- The characteristics and applications of supply systems and consumer's equipment.
- Earthing and protection.
- The relationship between resistance, resistivity, voltage, current, and power.
- How different electrical properties can affect electrical circuits, systems, and equipment.



EWA Entry Test

Test coverage information

- The operating principles of electrical components (the Domestic test covers the principles and applications of heating systems instead).

Part 2 – on-screen exam. Multiple-part, scenario-based questions.

- The applications of wiring systems.
- Electrical systems and circuits.
- The electrical design procedure.
- The requirements for completing the safe isolation of electrical circuits and installations.
- The requirements for the safe testing and commissioning of electrical installations.
- Application of BS 7671 and the IET On-Site Guide.