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## **City & Guilds Level 3 NVQ Diploma in Installing Electrotechnical Systems and Equipment (Buildings, Structures and the Environment) 501/2232/0**

### OVERVIEW

What does this qualification cover?

This Framework qualification covers a very wide range of areas related to the skills and knowledge required to become a competent and qualified Electrician within the Electrotechnical industry. There are two industry recognised pathways, and this is one of them. All of the units within this qualification are mandatory.

The units are:

- Understanding Health and Safety legislation, practices and procedures installing and maintaining Electrotechnical systems and equipment
- Electrotechnical occupational competence
- Understanding environmental legislation, working practices and the principles of environmental technology systems
- Understanding the practices and procedures for overseeing and organising the work environment Electrical Installation
- Understanding the practices and procedures for the preparation and installation of wiring systems and Electrotechnical equipment in buildings, structures and the environment
- Understanding the principles of planning and selection for the installation of electrotechnical equipment and systems in buildings, structures and the environment
- Understanding the principles, practices and legislation for the termination and connection of conductors, cables and cords in electrical systems
- Understanding principles, practices and legislation for the inspection, testing, commissioning and certification of Electrotechnical systems and equipment in buildings, structures and the environment
- Understanding the principles, practices and legislation for diagnosing and correcting electrical faults in electrotechnical systems and equipment in buildings, structures and the environment
- Understanding the electrical principles associated with the design, building, installation and maintenance of electrical equipment and systems
- Applying Health and Safety legislation and working practices Installing and Maintaining Electrotechnical Systems and Equipment



- Applying environmental legislation, working practices and the principles of environmental technology systems
- Overseeing and organising the work environment Electrical Installation
- Planning, preparing and installing wiring systems and associated equipment in buildings, structures and the environment
- Terminating and connecting conductors, cables and flexible cords in electrical systems
- Inspecting, testing, commissioning and certifying electrotechnical systems and equipment in buildings, structures and the environment
- Diagnosing and correcting electrical faults in electrical systems and equipment in buildings, structures and the environment

Who is this qualification designed for?

This qualification is suitable for anyone aged 16 and over, and is available at Level 3 only. This is the level that the Electrotechnical industry recognises learners as having achieved the competence required to carry out the role.

This qualification is designed for new entrants, mature candidates and those seeking progression in their career. It provides a learner with the opportunity to develop the necessary skills to carry out job roles and responsibilities associated with the installation and maintenance of Electrotechnical systems.

This qualification sits within an apprenticeship framework, as well as stand alone. Adult learners not wanting to go down the apprenticeship framework route or are ineligible as apprentices can take this qualification outside of an apprenticeship, this may suit you if you already have some experience within electrotechnical or if you are currently in employment, and wish to develop your skills even further. Learners may also take the stand alone route if they are embarking on a career change.

What Could This Qualification Lead To?

The qualification ultimately enables individuals to be recognised within the industry, as being able to work unsupervised on electrotechnical systems confirming them as employable and occupationally competent electricians. They will also be eligible for JIB grading to work on industrial and commercial sites.

Achieving this qualification can help you progress in a number of job roles, including:

- Electrician (installation)  
Installing power systems and Lighting and fire protection systems

Learners also have the opportunity to progress their career further by doing specialist CPD (Continual Professional Development) courses such as the following;

**Level 4 Award in the Design and Verification of Electrical Installations 600/3722/2**

Who Supports This Qualification?

This qualification is supported by the JIB (Joint Industry Board)