



Standard Level 3

ELECTRO TECHNICAL – INSTALLATION AND MAINTENANCE

In the industrial sector, an electrician is critical to support the growth in the construction industry, steel production, manufacturing and electrical power companies. Through the apprenticeship programme, you will develop skills to interpret drawings and blueprints and understand electrical code specifications. You will also acquire the skills to install, replace and repair wiring, conduits, lighting and other fixtures and electrical components both in commercial and domestic settings.

In your role, you could work in both indoor and outdoor settings. Electrical equipment and

systems may include switchboards, motors, cables, fuses, thermal relays, fault current protection switches, heating, lighting, air conditioning and metering equipment as well as crime and fire alarm systems and renewable energy technologies.

Successful candidates will be able to work on their own proficiently and work without immediate supervision in the most efficient and economical manner. Teamwork, time management and an eye for detail are essential skills and attributes for this role.

Elements of this standard:

Level 3: City & Guilds Electro Technical Diploma
Functional skills Level 2: English and Mathematics

What apprentices will learn:

- Principles, practices and legislation for the termination and connection of conductors, cables and cords in electrical systems
- Electrical principles associated with the design, building, installation and maintenance of electrical equipment and systems; Oversee and organise the work environment
- Practices and procedures for the preparation and installation of wiring systems and electro technical equipment in buildings, structures and the environment
- Principles, practices and legislation for diagnosing and correcting electrical faults in, and the inspection, testing, commissioning and certification of, electro technical systems and equipment in buildings, structures and the environment
- How to accept responsibility, allocate and supervise technical and other tasks
- How to communicate effectively within a team, working ethically and with integrity

THE ESSENTIALS

Entry Requirements:

- Set by the employer
- Progression from a relevant level 2 course or candidates working with an operational role within the industry
- English and Maths GCSE grades A* - C OR 4 to 9, or capability to achieve FS L2

Desired Skills and Attributes:

- Work reliably and ethically without close supervision
- Strong organisational and communication skills
- Showing initiative and an eye for detail
- Team work and the ability to prioritise
- Punctual, reliable and enthusiastic

Progression:

On completion of this apprenticeship, progression will be able to register as Engineering Technician by the Engineering Council

Example job roles:

- Installation Electrician
- Maintenance Electrician

Delivery model and duration:

- Duration between 36-48 months
- Delivery will be through a blend of weekly taught sessions and high quality online material
- On site assessments will support to build a portfolio and ensure the skills, knowledge and behaviours are applied in the workplace

Application Process:

- Online via the apprenticeship vacancy section of the Newham College website
- All applicants are assessed at interview, reviewing prior qualifications and experience for suitability of the role