



Electrotechnical (Installation)  
Level 3

## Overview

### Apprenticeship: Electrotechnical (Installation)

**Qualification:** Level 3

**Duration:** 48 months

Electricians install, maintain and repair electrical systems in industrial, commercial and domestic environments. Electricians might 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. They are able to work on their own proficiently and work without immediate supervision in the most efficient and economical manner.



#### Type of job roles the programme is for

- Installation Electrician
- Electrician

#### Qualifications

- Level 3 Electrotechnical Qualification (Installation)
- Functional Skills in Maths
- Functional Skills in English

# Training Process

## Apprenticeship:

## Electrotechnical (Installation)

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- New learners/employer is assessed by a Skills Coach or Business Advisor to ensure their suitability for the programme
- After this, they will complete an initial assessment and scoping to identify areas of improvement, and development goals for the apprenticeship
- An apprenticeship induction is then held for new learners, where they will be introduced to the schedule of study

### Skills

- Working safely and safe isolation
- Safe use of hand tools
- Terminate cables and conductors
- Manufacture and install containment
- Preparation for electrical installation work
- Inspection and test
- Diagnose and correct faults
- Work with access equipment

### Knowledge

- Knowledge of BS7671
- Electrical calculations
- Requirements of cable selection
- Electrical installation principles
- Understand inspection and testing
- Methodology of fault finding

### Behaviours

- Effective communication
- Effective team work
- Logical thinking
- Working effectively
- Time management
- Adaptability

# Pathway

## Apprenticeship: Electrotechnical (Installation)

There is a clear GC Education & Skills career pathway for the apprentice once they've completed the Level 3 Electrotechnical (Installation) course.

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### Construction Apprenticeship Routes

#### Level 2

Decorative Finishing and Industrial Painting Level 2

General Construction Operations Level 2

Plastering Level 2

Property Maintenance Operative Level 2

Wall and Floor Tiling Level 2

Wood Occupations Level 2

#### Level 3

Construction Contracting Operations Level 3

Electrotechnical (Installation) Level 3

Gas Engineering Level 3

Plastering Level 3

Refrigeration Air Conditioning and Heat Pump Engineering Technician Level 3

Wood Occupations Level 3