

# Electrical Installation and Maintenance - Level 3 Advanced Apprenticeship

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. They may contribute to the design of electrical systems. They are able to set out jobs from drawings and specifications and requisition the necessary installation materials. Electrical safety is an important area of Electricians' work. On completion of their work the electrical systems must be safe to use. They must adhere to safe working practices without endangering themselves or others.

## WHAT WILL THE APPRENTICE STUDY?

During this apprenticeship you will cover topics including;

- Working effectively and safely in an electrotechnical environment
- The principles of electrotechnology
- The application of health and safety and electrical principles
- Installation practices and theory.

For more information on the apprenticeship please visit the [Insitutue of Apprenticeships](#)

## ENTRY CRITERIA

Apprentices will be required to have or achieve level 2 English, Maths prior to completion of their Apprenticeship.

## HOW IS THE APPRENTICE ASSESSED?

Apprenticeships are assessed by classroom study coursework and assessments along with on-the-job practicals.

**Duration:** 4 Years

**Location:** Workplace and College

**Sector:** Construction