

Why Work as an... Installation and Maintenance Electrician

A solution for your training needs and career progression

ROLE OVERVIEW

Electricians may work on the installation, initial verification and testing, commissioning, and maintenance of low voltage (up to and including 1000 V or AC 1500 V DC) electrical and electronic equipment. Electricians can also work on the maintenance of electrical and electronic installations including automated production systems.

KEY POINTS

- **Level:** 3
- **Duration:** 48 months + End Point Assessment
- **Entry requirements:** You may be required to undertake training in maths and English. See [HERE](#) for more information
- **Professional recognition:** This apprenticeship aligns with Institution of Engineering and Technology (IET) for Technician Member (TMIET)

KNOWLEDGE REQUIREMENTS

- Safety Control equipment and how to use personal protective equipment (PPE), and the importance of, restoring the work area to a tidy and safe condition on the completion of work
- Key organisations and their purpose within the electrical industry and the electrician's role within the industry
- Technical information and guidance specifically for electrical work, including electrical drawings, technical specifications, their application
- Methods of terminating and connecting cables in electrical wiring systems, installations, and equipment in industrial, commercial, and residential environments

SKILL REQUIREMENTS

- Maintain the safety of self and others by applying statutory health and safety policies, procedures, and regulations when conducting electrical work
- Apply relevant legislation; Building Regulations; industry guidance notes; relevant codes of practice, the requirements of the current edition of the Wiring Regulations (BS7671) and other relevant standards while carrying out work
- Understand and apply the practices and procedures for planning and preparing to maintain electrotechnical systems and equipment

BEHAVIOUR REQUIREMENTS

- Embraces a sustainable working culture, taking responsibility for the careful use of resources and correct disposal of work waste demonstrating consideration of the environmental impact
- Focuses on the requirements of the customer (internal and external) or client, seeking to provide outstanding customer service
- Committed to keeping up to date with industry best practice, relevant legislation and technical standards and undertaking personal CPD in line with industry best practice

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