

Installation Electrician and Maintenance Electrician Apprenticeship

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Whether you are an electrical contractors, specialist operators or a company that provides a range of electrical and electronic services train or hire staff to expand your services with an electrotechnical installation apprenticeship.

Key Information

| | |
|-----------------------------------|---|
| Level | 3 |
| Duration | 42-48 months |
| Entry requirements | <ul style="list-style-type: none"> - 16 years or over. - GCSE grade 4 and above in English & maths or functional skills Level 2 in English & maths - Passing an aptitude assessment - Employer completion of a range of work documentation |
| Delivery | A minimum of 30 hours of on the job training at work place per week including a day to study theory at our Uxbridge/ Harrow campus |
| Typical job titles | Installation Electrician and Maintenance Electrician |
| Key responsibilities | <p>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.</p> <p>Installation Electricians work on the installation, testing, commissioning and maintenance of low voltage (less than 1000v) electrical and electronic devices and appliances.</p> <p>Maintenance Electricians work on the maintenance of electrical and electronic installations including automated production systems. Duties include the supervision of the equipment, its maintenance and necessary repairs.</p> |
| Qualifications | <ul style="list-style-type: none"> - End-point assessment AM2/S test - Full qualification in Electrotechnical Installation |
| Link to Professional Registration | By the end of the apprenticeship the candidate will have satisfied the requirements for registration as Eng Tech by the Engineering Council. |

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Government funding may be available. Eligibility and criteria apply

Employers involved in creating this standard:

Institution of Engineering and Technology, Balfour Beatty, Barlows Electrical, Daly Limited, Darke & Taylor Ltd, Joint Industry Board for the Electrical Contracting Industry, National Grid, UPM Shotton Paper and SJD Associates Ltd.

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Modules and Content

Knowledge & Skills

Electricians will use engineering knowledge and understanding to apply their technical and practical skills. They will contribute to the design, development, manufacture, construction, commissioning, operation or maintenance of products, equipment, processes, systems or services. Electricians must:

- Understand and apply the principles, practices and legislation for the termination and connection of conductors, cables and cords in electrical systems
- Understand and apply the practices and procedures for the preparation and installation of wiring systems and electrotechnical equipment in buildings, structures and the environment
- Understand and apply the principles, practices and legislation for the inspection, testing, commissioning and certification of electrotechnical systems and equipment in buildings, structures and the environment
- Understand and apply the principles, practices and legislation for diagnosing and correcting electrical faults in electrotechnical systems and equipment in buildings, structures and the environment
- Understand and apply the electrical principles associated with the design, building, installation and maintenance of electrical equipment and systems
- Oversee and organise the work environment.

In addition,

Installation Electricians must:

- Understand and apply the principles of planning and selection for the installation of electrotechnical equipment and systems in buildings, structures and the environment.

Maintenance Electricians must:

- Understand and apply the practices and procedures for planning and preparing to maintain electrotechnical systems and equipment.

In all of these activities, Electricians must understand and apply health and safety and environmental regulations, guidance notes and relevant codes of practice; and the requirements of the current edition of the Wiring Regulations.

Behaviours

Electricians will be expected to:

- Work reliably and effectively without close supervision
- Accept responsibility for the work of themselves and others
- Accept allocate and supervise technical and other tasks
- Use oral, written and electronic methods for the communication of technical and other information
- Work effectively with colleagues, other trades, clients, suppliers and the public
- Undertake work in a way that contributes to sustainable development
- Maintain and enhance competence in own area
- Exercise responsibilities in an ethical manner.