Course Information

CITY OF WOLVERHAMPTON COLLEGE

# Installation Electrician Apprenticeship Level 3

Study Mode: Full Time Programme Component | Course Level: 3

## Is this course right for me?

Electricians install, maintain and repair electrical systems in industrial, commercial and domestic environments 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 will use engineering knowledge and understanding to apply their technical and practical skills to the design, development, manufacture, construction, commissioning, operation or maintenance of products, equipment, processes, systems or services.

Qualified electricians are able to set out jobs from drawings and specifications, requisition the necessary installation materials and work proficiently on their own in an efficient and economical manner, without immediate supervision.

Electrical safety is an important area of an electrician's work -they must adhere to safe working practices without endangering themselves or others and, on completion of a job, the electrical systems must be safe to use.

Electricians must understand and apply health and safety and environmental regulations, guidance notes and relevant codes of practice; and adhere to the requirements of the current edition of the industry wiring regulations.

Installation electricians work on the installation, testing, commissioning and maintenance of low voltage (less than 1000v) electrical and electronic devices and appliances.

Maintenance electricians work on the maintenance of electrical and electronic installations including automated production systems. Duties include the supervision, maintenance and necessary repairs of equipment.

## Entry Requirements

GCSE maths and English at grade 4 or above

## What will I learn?

CORE KNOWLEDGE, SKILLS AND BEHAVIOUR REQUIREMENTS

KNOWLEDGE AND SKILLS

Apprentices will develop knowledge enabling them to understand and apply:

•Principles, practices and legislation for the termination and connection of conductors, cables and cords in electrical systems

•Practices and procedures for the preparation and installation of wiring systems and electrotechnical equipment in buildings, structures and the environment

•Principles, practices and legislation for the inspection, testing, commissioning and certification of electrotechnical systems and equipment in buildings, structures and the environment

•Principles, practices and legislation for diagnosing and correcting electrical faults in electrotechnical systems and equipment in buildings, structures and the environment

•Electrical principles associated with the design, building, installation and maintenance of electrical equipment and systems

•Oversee and organise the work environment

In addition, apprentices will gain knowledge specific to their specialist area:

Installation electrician:

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

Maintenance electrician:

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

BEHAVIOURS

Electricians will be expected to demonstrate the following behaviours:

•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 andenhance competence in own area

•Exercise responsibilities in an ethical manner

## How will I be assessed?

Throughout the programme the apprentice will receive expert training from highly qualified staff. A qualified assessor will provide an induction and regular workplace assessments, and a reviewing officer will support apprentices throughout the programme through regular work-based review meetings.

## What can I do next?

Full-time employment in the sector

## Delivery

**Location:** Work-based & College
**Start Date:** 02/09/2024
**Day:**
**Time:**
**Course Fee:**
**Course Code:** X0017
**Study Mode:** Full Time Programme Component

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