Course Information

CITY OF WOLVERHAMPTON COLLEGE

Installation Electrician Apprenticeship Level 3

Study Mode: Full Time, Work Based Learning

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?

- Understanding principles, legislation and safe practices for terminating and connecting conductors, cables and cords.
- Knowing how to prepare and install wiring systems and electrotechnical equipment in buildings and external environments.
- Understanding principles, legislation and procedures for inspecting, testing, commissioning and certifying electrical systems.
- Understanding how to diagnose and correct faults in electrical equipment and systems.
- Knowing core electrical principles for designing, installing and maintaining electrotechnical systems.
- Being able to organise and oversee the work environment effectively.
- Installation electricians: understanding principles of planning and selecting equipment and systems for installation.
- Maintenance electricians: understanding practices for planning and preparing maintenance work on electrotechnical systems.
- Working reliably and effectively without close supervision.
- Taking responsibility for own work and the work of others.
- Allocating and supervising technical tasks where required.
- Communicating technical information clearly through oral, written and electronic methods.
- Working effectively with colleagues, trades, clients, suppliers and the public.
- Undertaking work in a way that supports sustainable development.
- Maintaining and improving technical competence.
- Acting ethically and responsibly.

What skills will I gain?

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:

Start Date:

Day:

Time:

Course Fee:

Course Code: AP0181

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Apply online: **www.wolvcoll.ac.uk/apply**