

INSTALLATION AND MAINTENANCE ELECTRICIAN APPRENTICESHIP LEVEL 3

54 MONTHS | 6 MONTHS GATEWAY* | £23,000



The Installation and Maintenance Electrician apprenticeship develops skilled electricians who can install, maintain and repair electrical systems across industrial, commercial and residential environments, including communal areas.

PROGRAMME SUMMARY

Apprentices gain the technical knowledge, practical skills and professional behaviours required to work safely and competently within the electrotechnical industry.

QUALIFICATIONS ACHIEVED

- Level 3 Competence diploma in Electrical
- Level 3 Installation and Maintenance Electrician Apprenticeship.

WHO IS SUITABLE?

This apprenticeship is suitable for individuals who want to build a career as a qualified electrician working in industrial, commercial or residential environments. It is ideal for those who enjoy practical, hands on work, have a strong commitment to safety and quality, and can work both independently and as part of a team. It suits new entrants to the industry as well as existing electrical operatives looking to gain full occupational competence, recognised qualifications and professional status.

ENTRY REQUIREMENTS

- Learners must be employed full-time in the electrical industry
- Ideally, candidates will have GCSE English and maths at grade 4/C
- if learners don't have English and maths qualifications they will be considered as long as the initial assessment results come out at level 1.

EMPLOYERS RESPONSIBILITY

Your responsibility as an employer is to support your apprentice throughout their apprenticeship. You should ensure you have assigned a mentor, which could be their Line Manager. The mentor will be their key support person who will motivate the apprentice, ensure they are engaged and help drive progression. This will ensure all learning and assessments are completed by the practical planned end date. Once the learning is completed, you will support the apprentice during their gateway period through to end point assessment. You are required to adhere to the key responsibilities below.

KEY RESPONSIBILITIES

- Be aware of and have an understanding of the knowledge, skills and behaviours within the apprenticeship standard and mandatory qualifications
- Take part in bi-monthly progress review
- Ensure that apprentices can complete

their planned off the job activities. Give the apprentice opportunity to evidence progress and active learning monthly

- Allow the apprentice time to attend English and maths training, which is additional to the off the job hours.
- Use OneFile to track your apprentice's progress.

TOPICS AND UNITS

- Installation and maintenance of electrotechnical systems in residential, commercial and industrial environments
- Health and Safety legislation; safe systems of work; risk assessment; safe isolation; practices and procedures
- Scientific principles; electrical theory; circuit principles; AC/DC; power; protective devices
- Environmental legislation and environmental technology systems
- Design and installation; planning work; interpreting specifications and drawings; selecting materials
- Installing electrotechnical systems and components; containment, wiring systems, equipment and accessories
- Inspection and testing; commissioning; verification of installations; use of test instruments
- Fault finding and diagnosis; rectification of electrical faults
- Maintaining electrotechnical systems; planned and reactive maintenance; repair of equipment and systems
- BS 7671 requirements including current version
- Preparation for AM2/AM2S and professional competence evidence
- Workplace conduct, communication with clients/colleagues, responsibility, timekeeping and safe working culture
- Fault diagnosis, design decisions, practical installation challenges and maintenance scenarios.

OFF THE JOB TRAINING

Off the job training is a critical and important element within the apprenticeship. Apprentices must complete the minimum requirement of the standard.

Off the job training must deliver new skills and knowledge that is directly relevant

to the apprenticeship standard and can include the following:

- Teaching of theory via blended delivery methods
- Practical training
- Work shadowing
- Supported learning and time spent writing any assignments/questions.

The apprentice will attend our training centre at The Manchester College one day a week to gain the knowledge required to gain the electrical qualification.

END-POINT ASSESSMENT (EPA)

The EPA takes place at the end of the apprenticeship and tests the apprentice's knowledge, skills and behaviours. Assessment methods include:

- Observation with questioning (minimum 17 hours) - The observation with questions may take place in parts but must be completed within 3 working days

Component 1 - planning, safe isolation and risk assessment (1 hour)

Component 2 - installation and maintenance observation (10.5 hours)

Component 3 - testing and associated regulatory documents (3.5 hours)

Component 4 - fault finding and reporting on electrical circuits (2.0 hours)

- Open-book multiple-choice test (45 questions, 90 minutes).

PROFESSIONAL RECOGNITION

Successful apprentices may be eligible for:

- ECS Gold Card (JIB)
- Technician Member of the Institution of Engineering and Technology (TMIET).

FUNCTIONAL SKILLS REQUIREMENTS

- Ages 16–18: must complete Level 2 English and maths if not already achieved
- Aged 19+: English and maths required in line with apprenticeship funding rules.

HOW TO RECRUIT AN APPRENTICE: A SIMPLE STEP BY STEP GUIDE

STEP 1

Speak with Total People to discuss your business needs.

STEP 2

Confirm the right apprenticeship standard and eligibility.

STEP 3

We will support you in understanding the incentives that may be available to support your apprentice.

STEP 4

Set up your Apprenticeship Service Account (with support from Total People).

STEP 5

Total People will help you:

- Advertise your vacancy
- Promote it online
- Upskill existing staff if needed.

STEP 6

Induct and onboard your apprentice.

STEP 7

Your apprentice begins their learning journey.

GET IN TOUCH

Getting started is simple: speak to your Total People contact or our Customer Service Team.

- **For new apprentices:** consider the tasks and qualities you need in your apprentice
- **For upskilling:** identify the learner, their Line Manager, and the apprenticeship standard you want them to take.

Contact us



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*Gateway: the formal sign-off that the apprentice is ready to progress to End-Point Assessment (EPA).



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