

## Level 3 Advanced Technical Diploma in Electrical Installation

Location	Stretford Campus
Course Type	College 16-18
Department	Electrical Installation
Start Date	Monday 1st September 2025
Course Code	TFP-BS3D-1100

### Course Overview

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Are you aspiring to become an electrician in the building services industry? If so, this qualification is your gateway to a successful career! Designed to equip you with high-level occupational skills, this Level 3 vocational route is essential for anyone aiming to become a competent electrician. Through this course, you will gain a comprehensive understanding of the electrotechnical sector, covering crucial aspects such as working safely and effectively, designing, constructing, testing, and commissioning electrical systems, methods of supervision, electrical science and principles, regulations and law, and diagnosing and repairing electrical faults. With hands-on training and collaboration with local employers, you will be well-prepared for employment or further specialist study in the electrotechnical industry. Join us and take the first step towards a rewarding career as an installation or maintenance electrician!

### Course Requirements

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4 GCSE's at Grade 4 or above (including maths and/or English Language).

## What You Will Learn

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Planning and overseeing electrical work activities: Learn to plan, manage, and oversee electrical projects, ensuring safety and efficiency.

Principles of electrical science: Understand the fundamentals of electrical theory and circuit analysis.

Electrical design and installation practices and procedures: Master the best practices for designing and installing electrical systems.

Principles of inspection, testing and commissioning electrical systems: Learn how to inspect, test, and commission electrical systems to ensure they meet safety and performance standards.

Inspecting, testing and commissioning electrical systems: Gain hands-on experience in inspecting, testing, and commissioning electrical systems.

Electrical system fault diagnosis and rectification: Learn to diagnose and fix faults in electrical systems using diagnostic tools and techniques.

Requirements for electrical installations: Understand the legal and regulatory requirements for electrical installations to ensure compliance and safety.

## Assessment

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To achieve the Level 3 Advanced Technical Diploma in Electrical Installation (450) candidates must successfully complete all the mandatory assessment components.

- Level 3 Electrical Installation - Theory exam- The exam is externally set and externally marked, and will be paper-based only.
- Level 3 Electrical Installation - Synoptic assignment - The synoptic assignment is externally set, internally marked and externally moderated.

In addition, candidates must achieve the mandatory employer involvement requirement for this qualification before they can be awarded a qualification grade.

- Level 3 Employer involvement - Portfolio

## Progression

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This qualification is aimed at students who are not yet employed in the electrotechnical industry but wish to learn the skills needed to progress further, and help them embark on an electrotechnical apprenticeship programme.

## Career Options

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This technical qualification focuses on the development of knowledge and practical skills needed for working in the electrotechnical industry, which will prepare you to enter an electrotechnical apprenticeship programme. On completion

of the Apprenticeship, the learner will be recognised by the industry as competent as an installation or maintenance electrician

The apprenticeship will give you an understanding of suitable on-site skills and further knowledge required to work in the electrical industry. Once qualified, there are many further specific and specialised qualifications enhancing skills within the industry, such as electrical design, inspection and testing, appliance safety and environmental technology systems.

## Mandatory Units

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Students must achieve all 7 mandatory units:

Planning and overseeing electrical work activities

Principles of electrical science

Electrical design and installation practices and procedures

Principles of inspection, testing and commissioning electrical systems

Inspecting, testing and commissioning electrical systems

Electrical system fault diagnosis and rectification

Requirements for electrical installations

## Contact Details

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For further information please contact T: 0161 886 7070 or E: [info@trafford.ac.uk](mailto:info@trafford.ac.uk)

## Disclaimer

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Although every care has been taken to ensure that the information contained within this document is accurate, there may be changes to this programme and provision. We will endeavour to keep prospective and current students updated where appropriate and when the information becomes available.