

General Enquiries

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BTEC HND Building Services Engineering Top-Up (Electrical Pathway)

Location	Stockport College
Course Type	University Level
Department	Building Services
Start Date	Monday 15th September 2025
Duration	Full-time, 1 Year
Time	09:00 - 17:00
Fee	£ 8000.00
Course Code	SFQ-HC5H-3400

Course Overview

The aim of this HND Building Services Engineering (Electrical) is to develop students as professional, self-reflecting individuals who can meet the needs of employers in the construction sector and adapt to a constantly changing world. Students will build on the knowledge gained and skills developed at Level 4, on the HNC programme. Across the world, people rely on the ability to use electrical devices to facilitate work, education and entertainment. The provision of sufficient electrical power relies on the design of systems that are suitable to the application but which are also safe and sustainable. On successful completion of the course, students will be in a position to be able to assist senior colleagues with electrical systems design and installation.

Course Requirements

Successful applicants should have completed the HNC Building Services Engineering (Electrical) and have met the entry requirements for the L4 which is:

64 UCAS points from either:

- A Level 3 vocational qualification
- GCE A Levels
- An Access to higher Educational Diploma in a relevant subject

Applicants should have GCSE grade C/4 or above in maths and English.

What You Will Learn

On this specialist pathway, you will further develop your understanding of the principles of electrical installation and electrical theory. You will develop further your mathematical skills with the aim of being able to analyse and model civil engineering or building services engineering situations using mathematical techniques. Among the topics included in the unit are: number theory, complex numbers, matrix theory, linear equations, numerical integration, numerical differentiation, and graphical representations of curves for estimation in an engineering context. Students will expand their knowledge of calculus to discover how to model and solve problems using first and second order differential equations. You will learn about electrical distribution systems, cabling, lighting systems alongside building services automation, building system engineering, statutory regulations and health and safety. The rapidly growing range of services provided by BMS technology will be explored and its contribution to the renewable energy debate will be assessed. Students also have the opportunity to apply their research by carrying out the design of a BMS.

Assessment

You will be assessed using a range of methods including written assignments, reports, and presentations.

Progression

On completion, students may choose to complete an undergraduate degree by studying on a related level 6 top u, in a related field, and/or pursue professional qualifications.

Career Options

On completion students may develop their careers in this sector by entering or continuing in employment, in roles such as: Electrician, Engineering Technician, CAD Technician, Design Engineer, Network Engineer and Telecommunications Engineer.

Mandatory Units

At Level 5 you will study:

Group Project
Personal Professional Development
Advanced Electrical Design & Installation
Further Mathematics for Construction
Building Management Systems.
plus 3 additional units

Extra Costs Involved

No

Exam Validation Body

Pearson Education Ltd.

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Pearson Education Ltd.

Hours Per Week

12 hours full-time

How Long To Complete

1 year full-time with two full days attendance per week.

Programme Structure

You will gain 120 credits at level 5

Contact Details

For further information please email HEenquiries@tcg.ac.uk

Disclaimer

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.