

Engineering

Building Services Engineering for Construction: T Level (Technical qualification): Electrotechnical Engineering

In Brief

Start Date / Duration

September 2022 Two years

Entry Requirements

Five GCSEs at grade 4 or above including Maths and English at grade 5 or above.

You will achieve

T Level in Building Services Engineering for Construction.

Course Overview

This qualification focuses on the development of knowledge and skills needed to work in the building services engineering industry. It will prepare you to enter the industry through employment or as an apprentice.

This two-year course has been developed in collaboration with leading employers, is aimed at students aged 16-18-years, and combines College-based studies in our dedicated Science, Technologies, Engineering and Maths (STEM) Centre along with a minimum of a 45 day industry placement.

During this time, you will study a range of topics including core content that has been designed to give you a breadth of knowledge and skills for which you can apply in a variety of contexts related to the industry. Together with an employer-based project, the completion of this course will give you the opportunity to progress onto a Higher Education course, training or employment.

Course Content

You will develop your knowledge and understanding of the following:

- Health and safety practices associated with carrying out electrotechnical systems engineering
- Installation methods and termination of connections
- Systems and products used in electrotechnical engineering
- Analysing and using information to and from electrotechnical systems
- Removal processes as part of system decommissioning

You may be introduced to this specialism by asking questions such as:

- Who are the key stakeholders that may be involved with electrotechnical system installation and maintenance?
- How are electrotechnical systems checked and tested?
- When are different circuit types used in electrotechnical systems?

This specialist course will also allow you to enhance your broader skills in literacy and numeracy, develop transferable skills in communication (working with real colleagues, customers and clients) and undertake research and live project development work.

Whilst engaging with specialist tutors, support staff and work placements co-ordinators, you will also be required to complete an industry placement of at least 45 days. This will provide the much-needed real-world experience needed to succeed in this industry.

How will I be assessed?

You will be assessed by two externally set exams covering knowledge from the building services engineering common core components.

In year 2, you will complete an Occupational Specialism Assignment: The duration of the assessment is 24 hours and you will be assessed against the following themes:

- Health and safety
- Design and planning
- Systems and components
- Inspect and test systems and components
- Report and information
- Handover and communication
- Working with faults

What Equipment Will I Need?

You will need to provide writing and drawing equipment and a scientific calculator. Personal Protective Equipment (PPE) will be provided.

Where will I study?

Science, Technology, Engineering and Maths (STEM) Centre
Old Mill Lane
Barnsley
S70 2LA

What can I do next?

This qualification focuses on the development of knowledge and skills needed for working in the building services engineering industry, which will prepare you to enter the industry through employment or as an apprentice. Furthermore, the completion of this qualification gives you the opportunity to progress onto Higher Education courses and training.

How much does the course cost?

16 – 18 year olds

Full-time Barnsley College students aged 16-18 years old do not have to pay tuition fees.

Financial support

You may be eligible for assistance with expenses such as travel, books, equipment and childcare. For further information please contact the Student Services Team on +44 (0)1226 216 114.

Extra information

Contact the Information Unit

For further information please contact our friendly Information Team on +44 (0)1226 216 123 or email info@barnsley.ac.uk [mailto:info@barnsley.ac.uk]

Additional Learning Support

Our Additional Learning Support team can provide you with the support you need. Please contact them on +44 (0)1226 216 769.

Disclaimer

Please note we reserve the right to change details without notice. We apologise for any inconvenience this may cause.

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Want to apply?

Visit <https://www.barnsley.ac.uk/apply> to get started

Call us on **01226 216 123**