

Engineering

Automotive: Light and Electric Vehicles Maintenance Installation and Repair T-Level

In Brief

Start Date / Duration

This course will start in September and takes two years to complete.

Entry Requirements

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

You will achieve

You will achieve a T Level in Maintenance, Installation and Repair for Engineering and Manufacturing – Automotive Light and Electric Vehicles.

Course Overview

The purpose of this Automotive T Level is for you to know fundamental light and electric vehicle systems and undertake key procedures for maintenance and repair. You will have the opportunity to plan, perform and evaluate your work whilst utilising a range of materials, tools and equipment.

It will prepare you to enter the industry through employment or as an apprentice or if you are considering progression to Higher Education.

This two-year course has been developed in collaboration with leading employers and combines College-based studies in our dedicated Automotive Technologies Centre along with a minimum of a 45-day industry placement.

Course themes:

- Electrical systems and components, power sources, power units and engine types
- Application of component classification, numbering and referencing systems
- How components are removed, replaced and repaired as part of vehicle maintenance activities
- Develop skills to plan and prepare vehicle maintenance activities using evaluation
- Develop skills to select and use tools, equipment and technology safely and effectively to complete vehicle maintenance, servicing, and repair activities

Course Content

T Levels are courses for 16 to 18 year olds that are studied at the same level as doing A Levels. They are for young people who prefer a more technical education when they come to College, rather than following a purely academic pathway, or a work-based apprenticeship.

T Levels are two-year, Level 3 study programmes that will follow the study of GCSEs and Technical Awards at Key Stage 4 and offer an attractive alternative to A Levels and apprenticeships.

T Levels will combine classroom theory, practical learning and a minimum 315 hours of industry placement with an employer to make sure you have real experience of the workplace.

You will also need to achieve a minimum standard of English and Maths at GCSE grade 4 or above. The Technical Qualification (TQ) is the main classroom-based element of the T Level and will see you learning from a qualification that has been shaped by industry experts.

During the two-year programme, you will learn the core knowledge that underpins each industry and they will also develop occupationally specific skills that will allow you to enter skilled employment within a specific occupation.

The T Level programmes have been developed in collaboration with employers and businesses so the content will meet the needs of industry and prepare students for work. They provide the knowledge and experience needed to open the door to highly skilled employment, an apprenticeship or higher-level study, including university.

During this course, you will develop your knowledge and understanding of:

- Electrical systems and components, power sources, power units, and engine types
- Application of component classification, numbering and referencing systems
- How components are removed, replaced, and repaired as part of vehicle maintenance activities
- Skills to plan and prepare vehicle maintenance activities using evaluation
- Skills to select and use tools, equipment, and technology safely and effectively to complete vehicle maintenance, servicing, and repair activities.

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

- How do light and electric vehicle systems operate and function?
- What components are used in light and electric vehicle systems?
- How maintenance and repair activities to light and electric vehicles planned and carried out?

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.

How will I be assessed?

You will be assessed by:

Year 1

- Two externally set exams covering engineering common core components

Year 2

- Core components will be assessed by completion of an employer-set project that will consist of a well-defined, real industry style brief
- Further assessments around occupational specialisms which will feature a considerable practical elements over a three month assessment window

What Equipment Will I Need?

You will need to provide writing and drawing equipment plus a scientific calculator. We will provide all personal protective equipment (PPE).

Where will I study?

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

What can I do next?

You can progress onto a university-level course, training or employment.

How much does the course cost?

This course is fully-funded for 16–18 year olds.

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 216 267.

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]

Want to join Barnsley Sports Academy and the Sports Village?

Barnsley College has a range of sports opportunities for all students to take part in, gain professional training and compete nationally and internationally. We also have a state-of-the-art fitness village, Honeywell Sports Village [<https://www.barnsley.ac.uk/shops-services/honeywell-sports-village/>] where students can make use of our fitness suite, spinning studio and classes for

competitive rates. You don't have to be studying sport to get involved in the Sports Academy [<https://www.barnsley.ac.uk/our-departments/sport/sports-academy/>] .

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.

English and Maths

Having good English and Maths qualifications are important for most careers and we want to give you the help you need to succeed.

If you are aged 16 – 19 and don't already have a grade C/4 or above in GCSE English and Maths they will automatically be included in your study programme. If you want to work towards higher grades in English and Maths we can help you do that too.

Need a higher level Maths qualification? We offer a [Level 3 Mathematical Studies \(Core Maths\)](#).

This can be added to your study programme.

If you need any further information, please contact our friendly [Information Team](#).

Disclaimer

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

Last updated: 23rd November 2023

Want to apply?

Visit <https://www.barnsley.ac.uk/apply> to get started
Call us on **01226 216 123**