

# T LEVEL MAINTENANCE, INSTALLATION & REPAIR FOR ENGINEERING & MANUFACTURING: LIGHT & ELECTRIC VEHICLE

Subject Area  
Student Type  
Study Mode

Motor Vehicle  
Students aged 16-18  
Full Time

## What is the course about?

Our exciting new T Level Maintenance, Installation & Repair for Engineering & Manufacturing: Light & Electric Vehicles is suitable for anyone wanting a career in the motor repair industry. It is equivalent to three A levels and is delivered through a combination of classroom-based study and within an industry setting.

Delivered by expert tutors and industry specialists, this programme will broaden your options as you will cover a variety of topics and specialist areas. This means that when it comes to employment, you'll have the knowledge and skills to go wherever your ambitions take you.

Topics covered will include:

- Working within the engineering and manufacturing sectors
- Engineering and manufacturing past, present, and future
- Engineering representations
- Essential mathematics for engineering and manufacturing
- Essential science for engineering and manufacturing
- Materials and their properties
- Mechanical principles
- Electrical and electronic principles
- Mechatronics
- Engineering and manufacturing control systems
- Quality management
- Health and safety principles and coverage
- Business, commercial and financial awareness
- Professional responsibilities, attitudes, and behaviours
- Stock and asset management
- Continuous improvement
- Project and programme management.

You will also focus on an occupational specialism - installation and repair of light and electric vehicles.

## Why should I choose the course?

This T Level course is delivered over two years and has been designed in collaboration with our expert teaching team, industry links and employers. Through a blend of classroom working and an extended industry placement, you will be fully prepared for a highly successful career within the motor vehicle industry.

You will develop knowledge and understanding of concepts, theories and principles, supporting practical application of skills, both within the classroom setting and within an extended industry placement. This will ensure that you are fully equipped for your



**Warrington  
& Vale Royal  
College**

Warrington Campus  
Winwick Rd, Warrington WA2 8QA

 [wvr.ac.uk](http://wvr.ac.uk)

 01925 494 494

Winsford campus  
Weaver St, Winsford CW7 4AH

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next steps.

You will learn in our onsite, fully-equipped mechanics garage, gaining real-world experience of what it is like to work in an industry environment.

## What will I learn?

You will develop skills and knowledge in a wide range of topics and occupational specialisms including:

**Analysing and interpreting** - Evaluate and confirm the brief with reference to context, objectives and constraints (e.g. requirements, resources, precedents, technical issues, costs, health and safety, regulations, possibilities).

**Planning and preparation** - Propose and plan key activities, stages, methods, processes, techniques, documentation, resources (including types of tools and equipment) and risk assessments.

**Developing responses** - Apply engineering and manufacturing processes to achieve specific objectives and to produce quality outcomes, using relevant techniques and technology, within limits of own authority.

**Evaluating and quality assuring** - Carry out investigations, generate proposals and options, identify standard components and systems at relevant stages to gather and evaluate relevant evidence and data, and to confirm the suitability of plans, processes, actions and outcomes (including quality control and quality assurance activities).

**Communication and presentation** - Record, report, communicate and present plans, proposals, processes, issues, risks and outcomes to both technical and non-technical audiences, across a range of suitable formats and media (e.g. diagrams, physical and digital records and presentations).

## What will the course lead on to?

This T Level will fully prepare you for employment and a dynamic career in this practical industry. You can also use this T Level course to progress onto a related higher apprenticeship or degree-level study.

## Are there any links with industry and university?

Our motor vehicle department are exceptionally proud to work with a range of high-profile employers to enhance students' college experience, including Halfords and a number of local garages.

You will also complete an extended industry placement, equivalent to 315 hours, over two years. Whilst it is beneficial for you to self-source your own industry placement, you will have the support of our dedicated Industry Placement Team to provide in finding relevant placements.

## What support is available?

You will be allocated a progress coach who will provide you with support to help you succeed on your study programme and progress on to your chosen career or progression path. We have a team of staff dedicated to providing learning support if required, as well as a welfare team that is on hand to offer guidance, support and help when needed. Additionally, eligible students can access a wide range of finance and funding support to help them during their time at college.

Click here for learning support: <https://wvr.ac.uk/college-life/learning-support>

Click here for finance support: <https://wvr.ac.uk/college-life/financial-support>



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# Why should I choose to study the course at Warrington & Vale Royal College?

This course is delivered by our expert tutors and is designed in collaboration with industry and employers. It is delivered within our onsite motor vehicle workshop, with all the very latest industry-relevant tools, equipment of industry standard.

The unique blend of classroom, workshop and industry placement will fully prepare you for your next steps, whether that be into skilled employment, university or a higher apprenticeship.

## What are the entry requirements?

You will need a minimum of five GCSEs at grade 4 or above, including English and maths, or you will have needed to have successfully completed a Level 2 course and have GCSE English and maths at grade 4 or above.

## Are there any additional costs associated with the course?

PPE – Composite Safety shoes or boots, Trousers and T shirt, safety baseball cap, safety gloves



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