

## IMI Level 1 Diploma in Transport Maintenance

Do you enjoy Science and Maths? Are you curious about how vehicles work? Do you ever have the urge to take things apart to see how they work and have an inquisitive mind? Then a course in Light Vehicle Maintenance and Repair could be for you!

### Why choose this course?

The Motor Industry is a diverse and interesting career path, that can lead you down many avenues from motorsport, environmentally friendly transport, vehicle modification, sales, parts distribution, industrial or even agricultural vehicles. Our Level 1 Diploma in Light Vehicle Maintenance and Repair is designed to be an introduction to various systems found on a modern day light vehicle and enable you to make an informed decision on a career path within the industry. The IMI (Institute of the Motor Industry) govern the standards and skills required by employers in many sectors of motor vehicle industry.

On completion of this qualification you could gain employment as an apprentice, or progress onto a Level 2 course to further your knowledge and increase your chance of employment. The course is structured to enable you to gain work experience alongside it over the duration of the course. This is highly recommended in order to build your confidence in the vehicle systems being taught and to give you a taste of work as a Vehicle Technician in industry. A period of sustained work experience will also greatly increase your chances of gaining employment within the industry or gaining a place on an apprenticeship with an employer for your Level 2 course of study. Our Level 1 course is designed to be compatible with the apprenticeship programmes we run making transfer from a Level 1 full time course onto a Level 2 apprenticeship as painless and familiar as possible if you are able to gain employment as an apprentice at the end of the year.

### What will I learn?

You will be taught through a blended learning approach incorporating taught sessions, assessments and online learning. One to one support, tuition and advice are available from our team of very experienced and well qualified tutors.

Modules that you will study include:

#### **Skills in health, safety and good housekeeping in the automotive environment**

This unit will enable you to develop the skills required to carry out day to day work, as well as area cleaning, clearing away, dealing with spillages and disposal of waste used materials and debris. You will also learn how to identify hazards and risks in the automotive environment and comply with relevant legislation and good practice, working safely at all times within the automotive environment, both as an individual and with others.

#### **Knowledge and skills of materials, fabrication, tools and measuring devices used in the automotive environment**

This unit enables you to develop an understanding of: the correct selection, care and use of key hand tools and measuring devices for modification, fabrication and repair in the automotive environment; the correct preparation and use of common automotive environment equipment; the correct selection and fabrication of materials used when modifying and repairing; and the correct application of automotive engineering fabrication and fitting principles resulting in you making the first tool for your tool box!

#### **Knowledge and skills in routine light vehicle maintenance**

This unit enables you to develop an understanding of conducting routine maintenance, adjustment and replacement activities as part of the periodic servicing of light vehicles.

## **Knowledge and skills in light vehicle engine mechanical, lubrication and cooling system units and components**

This unit introduces you to the construction and operation of common engine mechanical, lubrication and cooling systems. It also covers the procedures involved in the removal and replacement of system components and the evaluation of their performance.

## **Knowledge and skills in light vehicle fuel, ignition, air and exhaust system units and components**

This unit introduces you to the construction and operation of common fuel, ignition, air and exhaust systems. It also covers the procedures involved in the removal and replacement of system components and the evaluation of their performance.

## **Knowledge and skills in removing and replacing light vehicle electrical units and components**

This unit introduces you to removal and replacement of motor vehicle electrical system components. It also covers the evaluation of performance of the replaced units and systems.

## **Knowledge and skills in removing and replacing light vehicle chassis units and components**

This unit introduces you to the removal and replacement of light vehicle steering, suspension and braking units (including wheels and tyres). It also covers the evaluation of performance of the replaced units and systems.

## **Knowledge and skills in light vehicle construction and maintenance**

This unit introduces you to vehicle engine driveline and body layouts, basic interior and exterior valeting, removal of electrical, mechanical and trim components.

## **Assessment Arrangements**

You will learn in the workshop and an appropriately equipped classroom. After each taught module at college you will complete a "knowledge check" on the systems covered. Practical tasks carried out in our workshops will be evidenced by you completing a written "job card" that details the work carried out. Your workshop assessor will then sign and agree that you have completed the work to the required standard.

## **Information & Support**

We encourage you to refer to your notes made during theory classes outside of college hours, in addition we recommend that you secure access to a motor vehicle technology textbook to help you with areas of technology that you require extra assistance with. Teachers will provide you with external web links and resources which will help you in your studies. Some PPE will be required for the course – you will be advised of this at interview.

## **What do I need?**

Grade 3 or equivalent in 3 GCSEs which must include Maths and English Language and preferably Science/ICT. You will also need to attend an interview with the course coordinator and show a keen subject interest.

## **Where will it take me?**

GCSE English and Maths where required), we would offer a progression route to a Level 2 qualification that focuses on more in depth investigation into the vehicle systems already covered and prepares you for that first step into industry. Alternatively you can consider an apprenticeship.