

# QUICK GUIDE TO MOTOR VEHICLE

2022/23



Stamford  
College

# WELCOME

Introduction from **Janet Meenaghan**  
**Group CEO & Principal of Stamford College**



Our aim is to give every young person the opportunities to achieve to the best of their abilities, so they can progress to further study with us, to find employment or an apprenticeship, or progress to higher education.

We are committed to ensuring our students get the best education possible and will do everything we can to help you achieve your goals.

We look forward to a successful partnership, working with you to ensure your success.

*J. Meenaghan*

# CONTENTS

- Motor Vehicle Courses** ..... 4
- Why Study With Us?** ..... 5
- Careers Map**..... 6
- Vehicle Technology Diploma Entry Level 3**..... 7
- Light Vehicle Maintenance & Repair Principles Diploma Level 1**..... 8
- Light Vehicle Maintenance & Repair Principles Technical Certificate Level 2**..... 10
- Motor Vehicle Student Success Stories**..... 11
- Light Vehicle Maintenance & Repair Technical Certificate Level 3**..... 12
- Motor Vehicle Student Success Stories**..... 14
- Progression Routes** ..... 15



# COURSES

Study a range of hands-on and practical courses in all aspects of mechanics.

You will work in our state-of-the-art workshops built as part of our £3.5 million Construction and Automotive Skills Centre, and utilise excellent links with local employers who provide work experience opportunities so you are fully prepared for work when you successfully complete your course.

You will also have the opportunity to work on projects such as building and maintaining a banger racing car and a kit car to broaden your knowledge and skills ready for your progression into employment.

**VEHICLE TECHNOLOGY**  
Diploma Entry Level 3

**LIGHT VEHICLE MAINTENANCE & REPAIR PRINCIPLES**  
Diploma Level 1

**LIGHT VEHICLE MAINTENANCE & REPAIR PRINCIPLES**  
Technical Certificate Level 2

**LIGHT VEHICLE MAINTENANCE & REPAIR**  
Technical Certificate Level 3



# WHY STUDY WITH US?



**STATE-OF-THE-ART FACILITIES**

We have a dedicated £3.5 million Construction and Automotive Skills Centre which contains replicated real trade workshops and contains all the professional tools and equipment you need to succeed. We also have a spacious library and comfortable wifi-enabled spaces to study and socialise with your friends.

**ONCE IN A LIFETIME OPPORTUNITIES**

Take part in regional and national competitions such as World Skills, take part in track day events and meet industry related specialists.



**MATURE ENVIRONMENT**

All of our teachers have worked in the industry and are highly experienced within the motor vehicle sector.



# CAREERS MAP

Set out on your path to a career in...

## LIGHT VEHICLES

- Tyre Fitter
- Breakdown & Recovery Technician
- Quick Fitter
- Armed Forces
- Maintenance Technician
- Diagnostics Engineer
- Workshop Supervisor
- Auto Electrician
- Motorcycle Technician
- Garage Manager/ Owner
- Sales

## HEAVY VEHICLES

- Workshop Supervisor
- Diagnostics Engineer
- Breakdown Recovery Technician
- Customer Service
- Sales
- Specialist Body Builder
- Armed Forces
- Vehicle Electrician
- Foreman Manager Supervisor
- Specialist Engineers for Trailers
- Maintenance Technician
- Transport Manager

## VEHICLE DESIGN

- Prototype Technician
- Insurance Assessor
- Vehicle Manufacture
- Factory Work
- CAP Engineer
- Accident Investigator
- Specialist Trimmer
- Test Driver
- Product Designer
- Quality Controller
- Motor Sport Technician
- Motor Sport Designer

## CAR CARE

- Classic Car Repair
- Panel Beater
- Car Valeting
- Workshop Technician
- Paint Sprayer
- Body Repair

...plus so much more! Book an appointment with our Careers team for more ideas and advice!

# VEHICLE TECHNOLOGY

## Diploma Entry Level 3

75%

25%

PRACTICAL VS THEORY

Duration: 1 Year Full Time

Gain an introduction into the motor vehicle industry, and build your academic and practical skills to progress on to a Level 1 Diploma. You will gain basic understanding of engine components and the operation, cooling and lubrication systems, steering and suspension components and operation, and simple repair processes.

### Entry requirements

No formal qualifications required, but you will be required to pass an initial assessment aptitude test.

### What does the programme include

You will learn both in the workshop and the classroom, with theory based discussions, multimedia presentations, worksheets and hands-on practical learning. All materials used to support your studies are also made available via the internet.

### How the course will be assessed

You will be assessed through an online test covering health and safety and use of tools and chemicals/substances. You will also be assessed through completion of worksheets and practically assessed tasks and their write up.

### Course content

- You will study the following units:
- Introduction to motor vehicle workshop safety
  - Introduction to the retail automotive maintenance and repair industry
  - Motor vehicle workshop tools and equipment
  - Principles of engine components and operation
  - Principles of light vehicle steering and suspension systems

- Simple body repair processes
- Principles of component fitting
- Routine cooling and lubrication system checks
- Routine braking systems checks
- Routine wheel and tyre checks
- Routine vehicle checks

### Progress to

On successful completion of this course, you can progress to the Light Vehicle Maintenance and Repair Principles Diploma Level 1 or enter employment.

### Additional information

You will require a uniform consisting of steel toe capped boots and overalls which can be purchased directly from our website. During your interview you will also sit an online suitability assessment. The result of this, plus your previous academic achievements and maturity will determine the level of course you are offered.



# LIGHT VEHICLE MAINTENANCE & REPAIR PRINCIPLES Diploma Level 1

50% **PRACTICAL** 50% **THEORY**

Duration: **1 Year Full Time**

**This course is designed to develop your experience and skills for working in a variety of motor industry sectors. You will gain a good working knowledge of tools and equipment, vehicle engines and engine systems, chassis systems, transmission and drive-line components, in our new, fully-equipped workshops.**

## Entry requirements

3 GCSEs at grades 3/D or above including English, maths and science or the Vehicle Technology Entry Level Diploma.

## What does the programme include

You will learn both in the classroom, with theory based discussion, multimedia presentations and worksheets and hands-on practical learning with guided car chassis component and engine dismantling and rebuilds in our brand new Automotive Skills Centre. All materials used to support you in your studies are also made available via the internet.

## How the course will be assessed

You will receive regular feedback in order to help you further develop your skills and prepare you for the assessments

which consists of a series of practical assessments, written assessments and online tests.

## Course content

You will study the following units:

- Health and safety practices in vehicle maintenance tools
- Equipment and materials for vehicle maintenance industry
- Introduction to the retail automotive maintenance and repair industry
- Spark ignition engine systems
- Components and operations compression ignition engine systems
- Components and operation
- Steering and suspension systems components and maintenance



- Vehicle braking systems components and maintenance
- Vehicle wheels and tyres construction and maintenance
- Vehicle exhaust systems components and maintenance
- Introduction to low carbon technologies in the automotive industry
- Vehicle electrical foundation skills
- Basic vehicle valeting
- Light vehicle construction
- Removing and replacing light vehicle electrical units and components
- Removing and replacing light vehicle chassis units and components
- Inspection, repair and replacement of high performance light vehicle tyres

## Progress to

On successful completion of this course, you can progress to the Level 2 Diploma in Light Vehicle Maintenance and Repair, or a Motor Vehicle Maintenance and

Repair Apprenticeship.

## Additional information

You will require a uniform consisting of steel toe capped boots and overalls which can be purchased directly from our website. During your interview you will also sit an online suitability assessment. The result of this, plus your previous academic achievements and maturity will determine the level of course you are offered.



# LIGHT VEHICLE MAINTENANCE & REPAIR PRINCIPLES

## Technical Certificate Level 2

40% **60%**  
PRACTICAL VS THEORY

Duration: **1 Year Full Time**

**This course is designed to provide you with the theoretical and practical skills you need to progress into employment in the automotive industry. You will develop a solid understanding of light vehicle system units and components by covering many aspects of light vehicle repair, including removing and replacing engines, and electrical and chassis units.**

### Entry requirements

Light Vehicle Maintenance and Repair Principles Diploma Level 1, or significant industry experience with GCSE English and maths at grades 4/C or equivalent.

### What does the programme include

You will learn both in the classroom, with theory based discussions, multimedia presentations and worksheets as well as gaining hands-on practical experience in our brand new Automotive Skills Centre. You will be expected to undertake independent learning through research tasks with the opportunity to undertake your own project vehicle builds.

### How the course will be assessed

You will receive regular feedback in order to help you further develop your skills

and prepare you for the assessments which consist of a series of practical assessments, written assessments and online tests.

### Progress to

On successful completion of this course, you can progress to the Light Vehicle Maintenance and Repair Principles Technical Certificate Level 3 or Motor Vehicle Maintenance and Repair Apprenticeship.



"With support and guidance from the College, I decided to turn my hobby into a career. I embraced my course and achieved well in academic areas and went on to win Student of the Year."

**Jake Arnold**

# LIGHT VEHICLE MAINTENANCE & REPAIR

## Technical Certificate Level 3

30% 70%

PRACTICAL VS THEORY

Duration: **1 Year Full Time**

**Master your skills and deepen your knowledge of the motor industry from a repair and refit perspective. Focus on the diagnosis of modern, complex motor vehicle systems, including advanced systems operation and their faults. You will study both the practical and theoretical aspects of the diagnosis and repair of light vehicles, using industry-standard diagnostic equipment.**

### Entry requirements

Light Vehicle Maintenance and Repair Principles Technical Certificate Level 2, or relevant industry experience.

### What does the programme include

You will learn both in the classroom, with theory based discussions, multimedia presentations and worksheets as well as gaining hands-on practical experience in our Automotive Skills Centre. You will be expected to undertake independent learning through research tasks with the opportunity to undertake your own project builds.

### How the course will be assessed

You will receive regular feedback in order to help you further develop your skills

and prepare you for the assessments which consist of a series of practical assessments, written assessments and online tests.

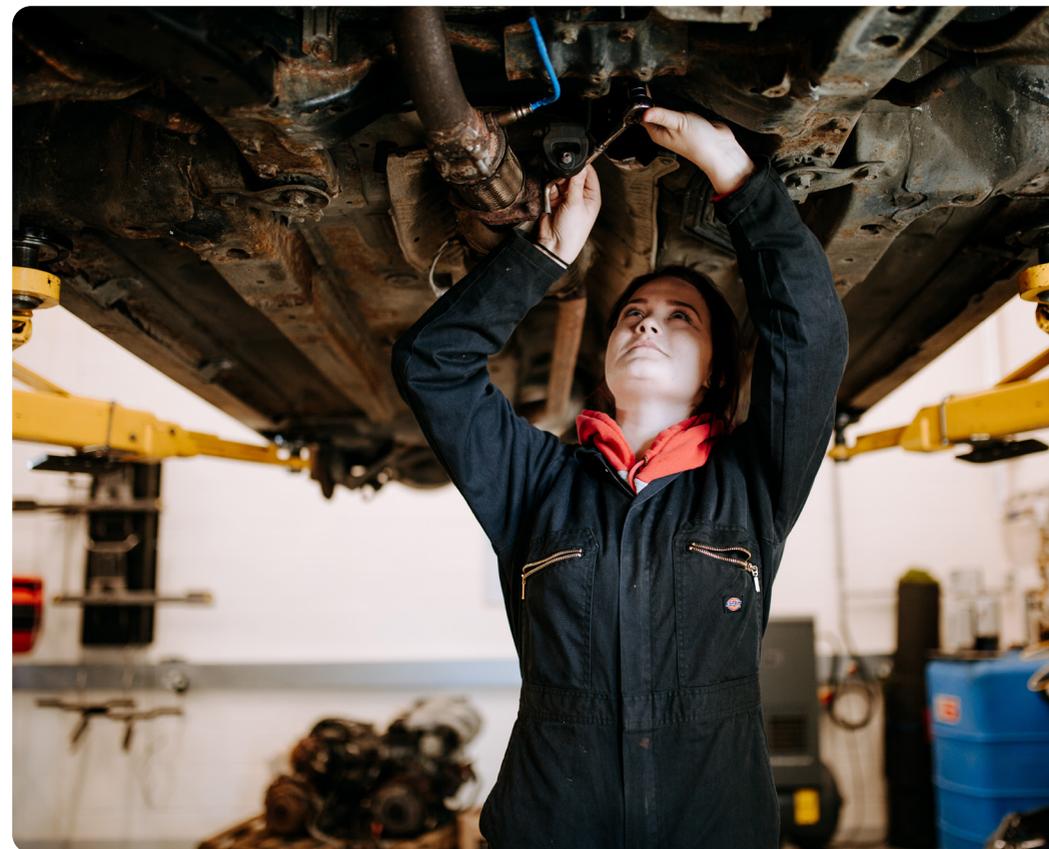
### Course content

You will study the following units:

- Engine and cooling systems
- Fuel systems
- Transmission systems
- Brake systems
- Steering and suspension systems
- Electrical systems and inspection

### Progress to

On successful completion of this course, you can progress to the motor vehicle



industry in job roles such as: Motor Vehicle Technician, Expert Technician, or Master Technician. Alternatively, you can progress to university to study a HNC/HND in Motorsport, or degrees in Engineering or Technology.

### Additional information

You will require a uniform consisting of steel toe capped boots and overalls which can be purchased directly from our website. During your interview you will also sit an online suitability assessment. The result of this, plus your previous academic achievements and maturity will determine the level of course you are offered.



“The tutors and our new facilities are brilliant. We study with the top-of-the-range equipment which enhances our knowledge and improves our employment prospects.”

**Lauren Burke**



# PROGRESSION ROUTES



We offer information, advice and guidance to support decisions about learning, training and work opportunities now and in the future. This includes:

- A specialist Careers Advisor
- A Personal Development Programme to develop study and employment skills
- CV Writing Workshops
- Dedicated UCAS Support
- Work Experience
- Personal Career Plan
- Mock Interviews
- Tips and talks from employers
- Dedicated Apprenticeship team to support applications

## Personal Development Programme

The Personal Development Programme is designed to equip you with important skills beyond your main qualification. You will have the chance to experience a range of sessions and meet visiting speakers who will introduce you to topics such as: personal wellbeing and mental health, drugs and alcohol, managing money, online safety as well as wider opportunities.

## University Fair

We also organise a Careers and University Fair in preparation for the UCAS deadline where universities from across the country and our largest local employers are invited to meet students and support them with their next steps.



# Ask us a question!



[enquiries@stamford.ac.uk](mailto:enquiries@stamford.ac.uk)



[@stamfordcolluk](https://twitter.com/stamfordcolluk)



[@stamfordcollegeuk](https://www.facebook.com/stamfordcollegeuk)



[www.stamford.ac.uk](http://www.stamford.ac.uk)



01780 484 300



**Stamford**  
College

Part of the **Inspire Education Group**