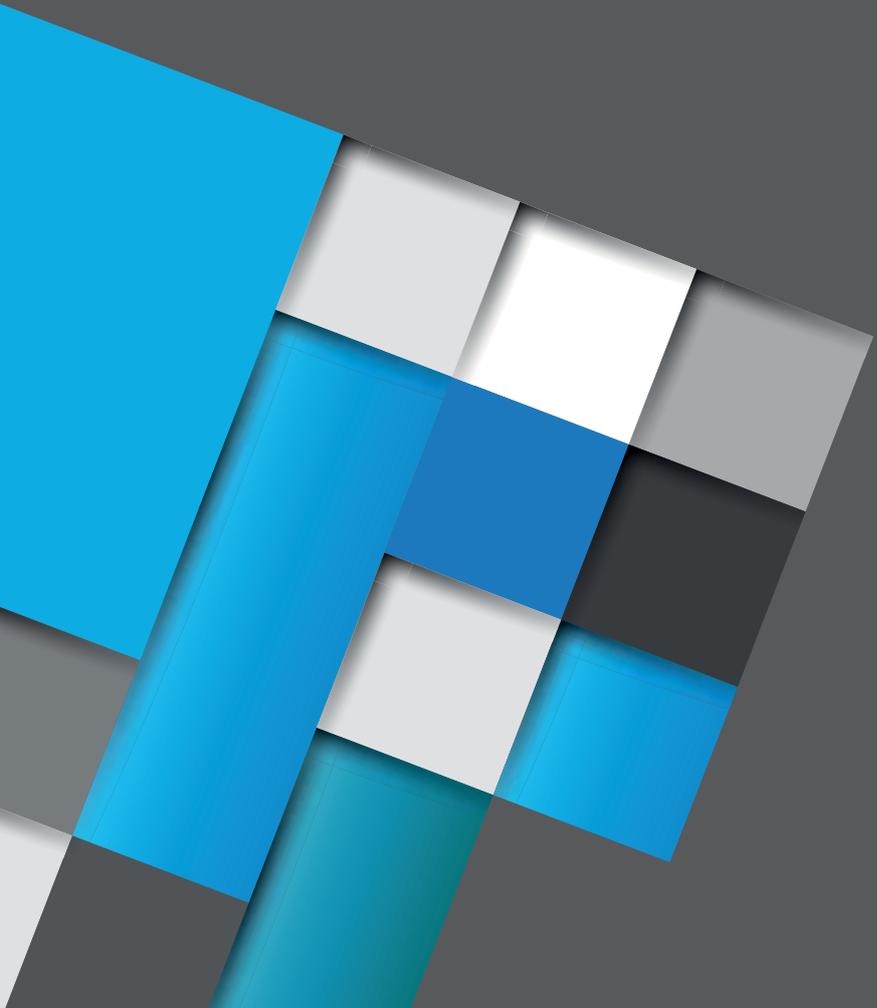


automotive

engineering 2014/15



always the

right course

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Automotive Engineering

Welcome to Automotive Engineering at Edinburgh College

Edinburgh College is a leading provider of automotive and mechanical engineering, where you'll learn about the design, manufacture and operation of a wide range of vehicles including commercial heavy goods vehicles, light vehicles, motorcycles and buses. We specialise in full- and part-time courses and operate sector-leading apprentice training programmes in light vehicle, heavy vehicle and vehicle body paint and repair.

By studying automotive engineering with us, you will learn the skills that could lead to career opportunities as an apprentice or diagnostic technician, a body shop technician, or a vehicle parts specialist. Many of our former students have progressed into senior roles as Master Technicians and Service Managers, some have even returned to college as instructors and lecturers.

If you're looking to pursue a career as an automotive engineer, it's never been more important to stay at the sharp end – it's a technologically fast-moving industry and you need to keep up. Thanks to the merger of three colleges, Edinburgh College is now one of the largest in the country, with the necessary clout to pioneer exciting new projects so your professional training can move with the times.

By studying automotive engineering at Edinburgh College, you'll benefit from our dedicated investments in green technologies which have spurred a leap in the electric car projects we now run as part of our successful motor vehicle courses. Through these projects, we've formed impressive partnerships with big global names.

You'll be learning from industry experts in modern, purpose-built workshops which are the Scottish base of choice for Toyota's development training (including electric hybrids). As well as this, we've partnered with manufacturing giants Mitsubishi and SEStan to place us at the forefront of technology with our own fleet of electrical vehicles. This offers you the fantastic opportunity to work with our Research Centre in gathering data on electric car performance and cost effectiveness as part of a project that's expanded right across Scotland.

Partnerships like these mean you'll be kept up-to-date with key manufacturer vehicle information throughout your training. Whether you're a new mechanic, a student apprentice, or a technician already in the trade, our automotive engineering courses will equip you with the innovative skills to place you ahead of the competition.

With all the great support and facilities we offer, we inspire success. Former motor vehicle student Kenneth Thirwall studied with us completing his modern apprenticeship. He was the winner of the Scottish Mini Cooper Cup in 2009 and 2013, former winner of the Scottish Formula Ford Championship in 2011, and joint winner of the first round at the British Formula Ford Championship 2012. Drawing on the skills he developed at Edinburgh College, he has built and developed his own very successful business specialising in vehicle maintenance, diagnostics and repair. Kenneth is a leading motorsport engineer: he personally built his racing car with all new parts, including a full engine rebuild. Kenneth has signed an apprentice who is following in his footsteps, starting his own Modern Apprenticeship at the College.

Now you've seen that automotive engineering at Edinburgh College is the choice for success, the following guide will help you choose the course that's right for you.

Automotive Starting Grid

Campus: Sighthill
Mode of Attendance:
Short Full-Time

What is this course about?

Automotive Starting Grid is an ideal foundation course to enable you to gain a basic automotive qualification.

The course is coupled with an organised work placement in a garage, which will give you the opportunity to showcase your skills to a potential employer and gain valuable real life experience in the industry. It's the perfect introduction to prepare you for a range of Modern Apprenticeship courses in specialised areas of vehicle maintenance.

How do I get a place?

- Core skills, Numeracy and Communication at Intermediate 1 or Standard Grade Maths and English at minimum Grade 4
- Interview which will include a mechanical comprehension test for which no preparation is necessary
- Referral
- You must be between 16 and 24 to apply for this course

What will I learn?

Modern Apprenticeship course in Vehicle Maintenance, Light or Heavy Vehicle, or Body Repair.

What can I do next?

City and Guilds Level 1 Certificate Vehicle Maintenance.

Introduction to Automotive Engineering Advanced Skills

Campus: Sighthill
Mode of Attendance: Evening

What is this course about?

Advanced vehicle maintenance and repair classes held in automotive engineering workshops aimed at developing practical skills and theoretical knowledge for enthusiasts and hobbyists.

This course runs on Tuesday evenings.

How do I get a place?

There are no entry requirements, this is a hobby course.

What will I learn?

Advanced skills in vehicle maintenance and repair.

What can I do next?

Other courses of interest at Edinburgh College.

City & Guilds 4290-11 Level 1 Diploma in Vehicle Maintenance (Light Vehicle Option)

Campus: Midlothian, Sighthill
Mode of Attendance: Full-Time

What is this course about?

This course will allow you to develop the necessary skills and knowledge for a career in automotive engineering, working on light vehicles (cars and vans). You'll learn about a wide range of vehicle systems, including Health and Safety, Engines, Electrical Systems and Routine Maintenance.

The majority of your time on the course will be spent in the workshop carrying out practical tasks. For each task you carry out, your findings will be compiled into a portfolio of evidence to highlight the practical skills developed. Not only this, the programme also includes a week's organised work placement - even more valuable, practical experience.

You'll spend some time in class covering the underpinning knowledge of vehicle systems too. You'll also develop core skills which can be applied to everyday life and future employment, in areas such as communication, numeracy, IT and problem solving.

The course is great preparation for further training, allowing you to apply for roles as an apprentice technician as part of a Modern Apprenticeship.

How do I get a place?

- Standard Grade Mathematics at General Level with a pass at Grade 4 or above, Numeracy at Intermediate 1
- You'll sit a pre-entry test and have an interview with college staff to make sure that the course is right for you and that you'll be studying at the right level

What will I learn?

- Health and Safety
- Engines
- Electrical Systems
- Routine Maintenance
- Communication
- Numeracy
- IT
- Problem Solving
- Working with Others

What can I do next?

Apply for apprentice technician vacancies, undertaking a Level 2 or 3 SVQ or Modern Apprenticeship with the prospect of a career as an automotive technician or as a self-employed motor engineer.

City & Guilds Entry Level 3 Vehicle Systems Maintenance 3902-1 Diploma

Campus: Midlothian
Mode of Attendance:
Short Full-Time

What is this course about?

This entry-level course is ideal if you have an interest in service engineering in the automotive trade. You'll gain a practical knowledge and understanding of the operation, servicing and repair of all aspects of light vehicles.

The course is an excellent stepping stone to further studies, which will allow you to access employment as an apprentice service technician in service and repair.

How do I get a place?

- There are no formal entry requirements
- Before starting the course you'll be interviewed and will undertake an aptitude test
- We expect you to demonstrate an interest in and commitment to the course

What will I learn?

Operation, servicing and repair of light vehicles.

What can I do next?

Automotive Maintenance and Repair: City & Guilds Level 1.

City & Guilds Entry to Motor Cycle and Small Engines Maintenance and Repair 3902 Diploma

Campus: Midlothian
Mode of Attendance: Full-Time

What is this course about?

This course is an ideal introduction to the wide range of engineering skills relevant to the operation, servicing, maintenance and repair of small engines.

You'll develop problem solving skills through the diagnosis of faults and will also work to develop your essential employment skills. You'll be well-prepared for working as an apprentice technician or for progression onto further training in automotive engineering.

How do I get a place?

- There are no formal entry requirements
- You'll take a pre-entry test and receive guidance from college staff to make sure that the course is right for you

What will I learn?

An introduction to a wide range of engineering skills relevant to the operation, servicing, maintenance and repair of small engines.

What can I do next?

- Employment as an apprentice service technician with companies involved with small engines
- Further training on a full-time course in automotive engineering

City and Guilds Level 1 Diploma in Vehicle Maintenance (Heavy Vehicle Option)

Campus: Midlothian, Sighthill
Mode of Attendance: Full-Time

What is this course about?

If you have an interest in heavy vehicle maintenance and repair, this course is the perfect opportunity to develop the skills and knowledge you need for a career in automotive engineering, working on heavy vehicles.

The majority of time will be spent in the workshop carrying out practical tasks. On completion of each task your findings will be compiled into a portfolio of evidence. This is valuable experience, giving you a practical understanding of a range of vehicle systems, including Engines, Transmission, Chassis and Electrical Systems along with Routine Maintenance and Vehicle Inspection.

You'll spend some time in class covering the underpinning knowledge of vehicle systems. Not only this, you'll develop your core skills in communication, numeracy and IT along with problem solving and working with others.

The course will ensure you're well prepared for employment in the motor industry, and you'll also be ready for further training at SVQ Level 2.

How do I get a place?

Minimum two passes at SCQF Level 4.

What will I learn?

- Health and Safety
- Engines
- Transmission
- Chassis
- Electrical Systems
- Routine Maintenance and Vehicle Inspection
- Communication
- Numeracy
- IT
- Problem Solving
- Working with Others

What can I do next?

- Employment in the motor industry
- SVQ Level 2 leading to a Modern Apprentice qualification

City and Guilds Level 2 Automotive Maintenance and Repair (4390-12)

Campus: Sighthill

Mode of Attendance: Full-Time

What is this course about?

This course will allow you to develop the necessary skills and knowledge for a career in automotive engineering, working on vehicles.

The majority of time will be spent in the workshop carrying out practical tasks. On completion of each task your findings will be compiled into a portfolio of evidence. This is valuable experience, giving you a practical understanding of a range of vehicle systems, including Engines, Transmission, Chassis and Electrical Systems along with Routine Maintenance and Vehicle Inspection. The programme also includes a week's organised work placement to give you real industry experience.

You'll spend some time in class covering the underpinning knowledge of vehicle systems. Not only this, you'll develop your core skills in communication, numeracy and IT along with problem solving and working with others.

The course will ensure you're well prepared for employment in the motor industry, and you'll also be ready for further training at SVQ Level 3.

How do I get a place?

Minimum of two passes at SCQF Level 4 and Level 1 Diploma.

What will I learn?

- Health and Safety
- Engines
- Transmission
- Chassis
- Electrical Systems
- Routine Maintenance and Vehicle Inspection
- Communication
- Numeracy
- IT
- Problem Solving
- Working with Others

What can I do next?

- Employment in the motor industry
- Progress to a Level 3 VRQ and increase your employment prospects or modern apprenticeship

IMI Level 3 Diploma in Automotive Light Vehicle Maintenance and Repair

Campus: Sighthill

Mode of Attendance: Full-Time

What is this course about?

This Level 3 diploma in Light Vehicle Maintenance and Repair is ideal if you have recently completed Level 2 in Automotive Maintenance and Repair and wish to progress to the next stage of learning.

The course will cover diagnostics, maintenance and repair, with a concentration on engine technology and systems. If you would like to take your light vehicle knowledge to the next level, this course is ideal for you.

How do I get a place?

Completed Level 2 Automotive Maintenance and Repair.

What will I learn?

- Diagnostics techniques and technical underpinning knowledge to support automotive maintenance and repair
- Chassis systems
- Transmission systems
- Engine Technology
- Electrical and Digital systems

What can I do next?

HNC or Master Technicians Diploma.

IMI Level 4 Master Technician Diploma

Campus: Sighthill

Mode of Attendance: Part-Time

What is this course about?

This Level 4 Certificate in Advanced Automotive Studies for Master Technicians is ideal if you have recently completed the Level 3 course in Automotive Maintenance and Repair and you wish you progress to the next stage of learning.

The course will ensure you're taught at an advanced level, covering chassis systems, engine technology, transmission systems, advanced electrical and digital systems, and much more automotive studies at a high level.

How do I get a place?

Completed Level 3 Automotive Maintenance and Repair.

What will I learn?

- Advanced technology and diagnostics techniques to support automotive maintenance and repair
- Advanced chassis systems
- Advanced transmission systems
- Advanced engine technology
- Advanced electrical and digital systems

What can I do next?

University progression.

IMI Level 1 Certificate In Automotive Body Repair

Campus: Sighthill
Mode of Attendance:
Short Full-Time

What is this course about?

This course will allow you to develop the necessary skills and knowledge for a career in vehicle body repair.

You'll undertake one half of a year-long programme of study, with the other half spent completing a Level 1 Certificate in Automotive Refinishing.

You'll study vehicle body repair techniques, vehicle construction systems, welding and fabrication for vehicle repair, painting techniques and refinishing methods. In addition to this, the course is backed up with extensive theoretical study and core skills modules.

The excellent combination of technique and theory will give you great preparation for further training and a career in the automotive industry.

How do I get a place?

Two Standard Grades with a pass.

What will I learn?

- Body repair techniques
- Vehicle Systems
- Vehicle Construction
- Welding and fabrication skills
- Painting methods and systems

What can I do next?

Vehicle body repair and painting apprenticeship.

IMI Level 1 Certificate In Automotive Refinishing

Campus: Sighthill
Mode of Attendance:
Short Full-Time

What is this course about?

This course will allow you to develop the necessary skills and knowledge for a career in vehicle refinishing and painting.

You'll undertake one half of a year-long programme of study, with the other half spent completing a Level 1 Certificate in Automotive Body Repair.

You'll study a fantastic range of subjects, including vehicle body repair techniques, vehicle construction systems, welding and fabrication for vehicle repair, painting techniques and refinishing methods. In addition to this, the course is backed up with extensive theoretical study and core skills modules.

The excellent combination of technique and theory will give you great preparation for further training and a career in the automotive industry.

How do I get a place?

Two Standard Grades with a pass.

What will I learn?

- Body repair techniques
- Vehicle Systems
- Vehicle Construction
- Welding and fabrication skills
- Painting methods and systems

What can I do next?

Vehicle body repair and painting apprenticeship.



Modern Apprenticeships

Edinburgh College offers sector-leading apprentice training that supports and develops the automotive industry in Edinburgh and the wider region. We deliver advanced technology diagnostics training to the automotive trade and are developing on-going post apprentice training with leading organisations in the automotive sector.

We offer different modes of attendance to best support your business and training needs, and all apprentices are supported by our team of dedicated work-based assessors, who will ensure your ongoing training experience is valuable and fulfilling.

Places on these courses are offered through employer and managing agent referrals.

Light Vehicle Modern Apprenticeship

Campus: Sighthill, Midlothian
Mode of Attendance: Block Release, Day Release

What is this course about?

Over the three-year course, you will study all aspects of light vehicle technology, design, diagnostics, repair and maintenance.

This course is designed to provide all the training required to become a fully-qualified and competent vehicle technician.

How do I get a place?

We offer placements through employer referral and managing agent referrals.

What will I learn?

- Health and Safety
- Engines
- Transmission
- Chassis
- Electrical Systems
- Routine Maintenance and Vehicle Inspection
- Communication
- Numeracy
- IT
- Problem Solving
- Working with Others

What can I do next ?

Master Technicians Diploma.

Heavy Vehicle Modern Apprenticeship

Campus: Sighthill
Mode of Attendance: Block Release

What is this course about?

Over the three-year course, you will study all aspects of heavy vehicle technology, design, diagnostics, repair and maintenance.

This course is designed to provide all the training required to become a fully-qualified and competent vehicle technician.

How do I get a place?

We offer placements through employer referral and managing agent referrals.

What will I learn?

- Health and Safety
- Engines
- Transmission
- Chassis
- Electrical Systems
- Routine Maintenance and Vehicle Inspection
- Communication
- Numeracy
- IT
- Problem Solving
- Working with Others

What can I do next?

Master Technicians Diploma.

Vehicle Body Paint and Repair Modern Apprenticeship

Campus: Sighthill
Mode of Attendance: Block Release

What is this course about?

Over the three-year course, you will study all aspects of vehicle design, body repair processes, refinishing and paint systems.

This course is designed to provide all the training required to become a fully-qualified and competent vehicle body technician or paint technician.

How do I get a place?

We offer placements through employer referral and managing agent referrals.

What will I learn?

- Vehicle construction and design
- Vehicle painting techniques
- Vehicle body repair techniques
- Health and Safety
- Core Skills

What can I do next?

Master Technicians Diploma.



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