



# Electrical Engineering Modern Apprenticeship



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This course will give apprentices the knowledge of the electrical maintenance environment so they are ready for work. From component identification to diagnostics and repair, this course will cover all the key areas required by industry for a fully qualified electrical engineer.



# Electrical Engineering

## Modern Apprenticeship

**Study Mode**  
Variable

**Start Date**  
August

**Duration**  
4 years

**Campus**  
Midlothian

## Course overview

Apprentices will attend college on 2 days per week, learning from experts in the Electrical Engineering field who have up to date knowledge and experience of industry practices.

During the programme apprentices will complete the following qualifications:

- SVQ2 Performing Engineering Operations (Electrical)
- NC Electrical Engineering (Level 6)
- SVQ3 Electrical Engineering (Testing Electrical Equipment)

For the final 2 years the apprentice will progress towards their final qualifications through workplace assessments.

All apprenticeship programmes have the support and advice of dedicated workplace coordinators and assessors, ensuring the apprentice's work is meeting the latest industry standards.

Funding may be available from Skills Development Scotland (SDS) for apprentices and employers.

## Units

- Core Skills - Problem Solving, Working with Others, Communication, ICT, Numeracy, Working Efficiently and Effectively
- Single and Three Phase Principals & Induction Motors
- Electrical Principals, Fundamental Systems, Testing & Measurement
- Electrical Plant Maintenance
- Wiring and Testing Electrical Equipment and Circuits
- Forming and Assembling Electrical Cables, Ratings and Overcurrent Protection
- Circuit Element Principles
- Hand Fitting Techniques
- Electrostatics and Electromagnetics
- Direct Current Machines



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# Light Vehicle Maintenance & Repair Modern Apprenticeship



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This course will teach apprentices the skills they will need for a long-term career in the automotive industry. From component identification to diagnostics and repair, the apprenticeship covers key areas that will allow apprentices to develop into full-time staff members as fully qualified automotive engineers.



# Light Vehicle

# Maintenance & Repair

# Modern Apprenticeship



Skills  
Development  
Scotland

## Study Mode

Block Release or Day Release

## Start Date

August

## Duration

3-4 years

## Campus

Midlothian (DR), Sighthill (BR)

## Course overview

Apprentices will attend college on either a block release or day release basis, learning theoretical and hands on automotive techniques.

During the programme apprentices will complete the following City & Guilds qualifications:

- VRQ2 in Light Vehicle Maintenance & Repair
- VRQ3 in Light Vehicle Maintenance & Repair
- SVQ3 in Light Vehicle Maintenance & Repair
- Core Skills - Problem Solving, Numeracy, ICT, Communications and working with others at SCQF level 5.
- IMI Modern Apprenticeship certificate.

All apprenticeship programmes have the support and advice of dedicated workplace coordinators and assessors, ensuring the apprentice's work is meeting the latest industry standards.

Funding may be available from Skills Development Scotland (SDS) for apprentices and employers.

## Units

- Health and Safety
- Materials, Fabrication, Tools & Measuring Devices
- Removing & Replacing Engine/Electrical/Chassis/Driveline Units and Components
- Knowledge of Engine Mechanical, Lubrication and Cooling Systems and Components
- Knowledge of Fuel, Ignition, Air and Exhaust System Units and Components
- Routine Maintenance
- Inspection Using Prescribed Methods
- Knowledge of Transmission and Driveline Units and Components
- Diagnosis & Rectifying Light Vehicle Engine/Chassis/Auxiliary Electrical Faults



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# Fabrication & Welding Modern Apprenticeship



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This course teaches apprentices techniques they will need for a successful career in a fabrication and welding environment. From fabrication processes to welding techniques, this course will cover all the key areas expected in industry.



# Fabrication & Welding

## Modern Apprenticeship

**Study Mode**  
Variable

**Start Date**  
August

**Duration**  
4 years

**Campus**  
Midlothian

## Course overview

**Apprentices will attend college on 2 days per week, learning from experts in the Fabrication and Welding field who have up to date knowledge and experience of industry practices.**

During the programme apprentices will complete the following qualifications:

- SVQ2 Performing Engineering Operations (Electrical)
- NC Fabrication and Welding Engineering
- SVQ3 Electrical Engineering (Fabrication & Welding)

For the final 2 years the apprentice will progress towards their final qualifications through workplace assessments. Various options are available for SVQ3 depending on the apprentice's workplace.

All apprenticeship programmes have the support and advice of dedicated workplace coordinators and assessors, ensuring the apprentice's work is meeting the latest industry standards.

Funding may be available from Skills Development Scotland (SDS) for apprentices and employers.

## Units

- Core Skills - Problem Solving, Working with Others, Communication, ICT, Numeracy, Working Efficiently and Effectively
- Health & Safety
- Preparing and Using MIG/MAG/ Metal Arc Welding Equipment
- Cutting and welding equipment
- Fabrication & welding processes
- Computer Aided Draughting
- Thermal Cutting Skills
- MMA Welding



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# Mechanical Manufacturing Engineering Modern Apprenticeship



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This course will give an apprentice all the skills they will need for a successful career in varied manufacturing engineering environments. From basic hand skills to machining and engineering drawing, the programme will make sure each apprentice has the knowledge ready for work with the option for further study to technician level.



# Mechanical

# Manufacturing Engineering

# Modern Apprenticeship



**Study Mode**  
Variable

**Start Date**  
August

**Duration**  
4 years

**Campus**  
Midlothian

Skills  
Development  
Scotland

## Course overview

**Apprentices will attend college on 2 or 3 days per week, learning both theoretical and hands on skills.**

During the programme apprentices will complete the following qualifications:

- SVQ2 Performing Engineering Operations
- NC Manufacturing Engineering
- SVQ3 Manufacturing Engineering

For the final 2 years apprentices will progress towards their final qualifications through workplace assessments. Options for SVQ3 currently include: Mechanical Overhaul and Test, Fitting and Assembly, and CNC Machining.

All apprenticeship programmes have the support and advice of dedicated workplace coordinators and assessors, ensuring the apprentice's work is meeting the latest industry standards.

Funding may be available from Skills Development Scotland (SDS) for apprentices and employers.

## Units

- Core Skills - Problem Solving, Working with Others, Communication, ICT, Numeracy, Working Efficiently and Effectively
- Health & Safety
- Engineering assembly & workshop Skills
- Milling Machines
- Maintaining Mechanical Devices & Equipment
- Cutting and Shaping Materials
- Preparing and Using MIG/MAG/ Metal Arc Welding Equipment
- Maintaining Electrical Equipment
- Industrial CNC Machining
- Computer Aided Draughting
- Engineering Manufacturing Processes, Materials & Quality



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# Heavy Vehicle Maintenance & Repair Modern Apprenticeship



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This course will teach apprentices the skills they will need for a long-term career in the automotive industry. From component identification to diagnostics and repair, apprentices will cover all the key areas that will allow apprentices to develop into fully qualified automotive engineers with specialism in heavy vehicles.



# Heavy Vehicle Maintenance & Repair Modern Apprenticeship



Skills  
Development  
Scotland

**Study Mode**  
Block Release

**Start Date**  
August

**Duration**  
3-4 years

**Campus**  
Sighthill (BR)

## Course overview

**Apprentices will attend college on either a block release or day release basis, learning theoretical and hands on automotive techniques.**

During the apprenticeship programme they will complete the following City & Guilds qualifications:

- VRQ2 in Heavy Vehicle Maintenance & Repair
- VRQ3 in Heavy Vehicle Maintenance & Repair
- SVQ3 in Heavy Vehicle Maintenance & Repair
- Core Skills - Problem Solving, Numeracy, ICT, Communications and working with others at SCQF level 5
- IMI Modern Apprenticeship certificate

All apprenticeship programmes have the support and advice of dedicated workplace coordinators and assessors, ensuring the apprentice's work is meeting the latest industry standards.

Funding may be available from Skills Development Scotland (SDS) for apprentices and employers.

## Units

- Health and Safety
- Materials, Fabrication, Tools & Measuring Devices
- Removing & Replacing Engine/Electrical/Chassis/Driveline Units and Components
- Knowledge of Engine Mechanical, Lubrication and Cooling Systems and Components
- Knowledge of Fuel, Ignition, Air and Exhaust System Units and Components
- Routine Maintenance
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- Diagnosis & Rectifying Light Vehicle Engine/Chassis/Auxiliary Electrical Faults



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# Fire & Security Systems Modern Apprenticeship



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This course will give an employed apprentice the skills they require for a positive career in the fire & security industry. From Installation of security, fire, CCTV & access systems through to maintenance and fault finding, the apprenticeship programme will cover all relevant standards & guidelines required to take apprentices to time served technician status.



# Fire and Security Systems

## Modern Apprenticeship



Skills  
Development  
Scotland

**Study Mode**  
Day Release

**Start Date**  
August/September

**Duration**  
3 years

**Campus**  
Granton

### Course overview

Apprentices will attend college on a day release basis, taught by experts in the security industry, who are still working in industry with the latest technology on the market.

During the apprenticeship programme apprentices will complete the following qualifications:

- GG9K 23 SVQ 3 Providing Electronic Fire and Security Systems SCQF Level 6
- G8YF 46 (PDA) Electronic Fire and Security Systems SCQF level 6
- Core Skills - Problem Solving, Numeracy, ICT, Communications and Working with Others at SCQF level 6.

Apprentices will complete assessments via an Electronic Portfolio – viewable by the employer.

All apprenticeship programmes have the support and advice of dedicated workplace coordinators and assessors, ensuring the apprentice's work is meeting the latest industry standards.

Funding may be available from Skills Development Scotland (SDS) for apprentices and employers.

### Units

- Health & Safety
- Installation practices – Intruder & Hold Up, Fire Alarm, CCTV, Access Control
- Commissioning, Maintenance and Performance
- Signalling
- Diagnose and Rectify Faults
- Test and Confirm the Operation of Electronic Security Systems
- Audit Electronic Security Systems
- Handover Electronic Security Systems



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# Future Modern Apprenticeship Opportunities



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We continue to work with Skills Development Scotland (SDS) and a range of employers to introduce new modern apprenticeship programmes providing invaluable vocational learning for young people to meet the workforce skills needs of the region. Please contact us to discuss future apprenticeship programmes.



# Future Modern Apprenticeship Opportunities

## Foundation Apprenticeships (2016/17)

Foundation Apprenticeships are programmes designed for school students. Students attend college 2 afternoons a week alongside employer led work placements, working towards a recognised qualification. Future programmes include:

- Financial Services (pilot in 2015/16)
- Health and Social Care
- Construction
- Digital/ICT
- Business Management/Administration
- Engineering

## Modern Apprenticeships (2016/17)

Modern Apprenticeship programmes enable employees to work towards work-based vocational qualifications mixing college practical learning and theory to make sure apprentices are fully prepared for industry. Current apprenticeship programmes include:

- Engineering
- Security
- Automotive

We are also looking to provide Modern Apprenticeships targeted to support the local economy in line with Skills Investment Plans. Future programmes may include:

- ICT Support
- Life Sciences
- Business Administration
- Customer Services
- Waste Management
- Accountancy
- Hospitality
- Hairdressing

