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# Automotive Training

## Course Outlines



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## About GTG Training

With centres in Glasgow, Edinburgh and the West Midlands GTG has over 40 years' experience in training and has previously been declared Learning Provider of the Year at the Scottish Modern Apprenticeship Awards.

With the approval of many prestigious bodies such as SQA, IMI and City and Guilds, GTG has cemented its position as one of the UK's most innovative, experienced and qualified training establishments.

The state-of-the-art training facilities deliver first-class training to delegates and apprentices, offering the latest in training technology. All centres boast an on-site café, ample free parking and easy accessibility via bus or train.

GTG Training provides students with the best learning environment in which to develop their skills, together with full-time employment opportunities to help develop skills further.



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## Automotive Technical Training Apprenticeships

### What is an apprenticeship and what will it do for your company?

An apprentice is employed from the start of their training, allowing them to earn a wage while learning new skills and gaining a qualification. Training will take place at your workplace and at one of our centres. To make sure the training is right for the apprentice a training plan is devised at the start of the apprenticeship and agreed by the apprentice, the employer and GTG Training.

### How an apprenticeship can benefit your business:

- The average apprentice can deliver productivity gains of over £10,000 per annum.
- Apprentices bring in fresh ideas and energise other employees.
- Apprenticeships result in a more skilled and loyal staff force.
- There's funding available to support you... and your apprentice.
- The best part? You'll know you helped someone get into employment.

GTG apprenticeships are aimed at individuals who are capable of achieving Vocational Qualifications at Level 3 or above.

### How long will it last?

The duration of the course will be approximately three to four years.

### How much will it cost?

Costs vary and depending on circumstance, funding is available. Contact us for more details.

### List of apprenticeships

- Light Vehicle
- Heavy Vehicle
- Bus and Coach
- Lift Truck Maintenance and Repair
- Vehicle Fitting
- Vehicle Paintwork Repair
- Vehicle Body Repair and Alignment
- Vehicle Accident Repair, Mechanical, Electrical and Trim (MET)
- Vehicle Parts Operations
- Garage Equipment Engineering
- Electronic Security





## IMI Level 3 Award in MOT Test Centre Management

 **Duration:**  
2 days

This course is designed for those who wish to run an MOT vehicle test station (VTS), or who will have direct responsibility for MOT operations at the VTS in the future. This qualification will also be of interest to those wishing to set up an MOT testing station or who may already be an MOT tester and wish to advance their career in the future.

This intensive course will incorporate 16 guided learning hours and candidates must undertake an externally set and externally marked assessment in the form of an online test delivered through the IMI online testing platform.

The test will consist of 35 questions, to be answered in 75 minutes and spans the breadth of the content for each of the units.

### The content covered includes:

- Managing the legislative and compliance requirements of a VTS
- Dealing with customer service problems and complaints
- Developing and supervising staff within a test centre
- Test centre quality systems and audits

## IMI Level 2 Award in MOT Testing (Class 4 and 7)

 **Duration:**  
4 days

From September 2016, any candidate who wishes to become an MOT Tester must now complete a formal qualification through a training provider rather than attending a DVSA three-day course.

Candidates must have a current and full UK driving licence for the vehicle class in which they want to be tested and hold a Level 3 qualification recognised by the DVSA. They must also be a skilled mechanic with a minimum four years' full-time employment, working in the servicing and repair of the vehicle types to be tested. Candidates should be of good repute and have no unspent convictions for criminal offences connected with the MOT testing scheme or the motor trade, or involving acts of violence or intimidation.

This intensive course will incorporate 29 guided learning hours, eight of which must be practical.

Candidates must undertake an external exam in the form of an online test from the IMI platform. This test consists of 40 questions to be answered in 75 minutes, spanning the content of all five units. Candidates must also successfully undertake internal practical assessments provided by IMI.

### The following units will be covered:

- Working safely within a vehicle testing centre
- Communicating with colleagues and customers
- Managing and maintaining CPD requirements
- Carrying out pre-test checks
- Carrying out MOT tests



## Light Vehicle MOT Annual Training and Assessment

 **Duration:**  
**3 hours**

Current MOT testers must now undertake a minimum of 3 hours' annual training to keep up to date with best practice methods. To maintain their professional status, all testers must complete an MOT annual assessment, based on this DVSA specification.

At GTG, we offer an e-learning package that allows MOT testers to complete both their MOT annual training and assessment.

This course is designed for existing Light Vehicle (Classes 3, 4, 5 and 7) MOT nominated testers who wish to complete the DVSA MOT annual training and annual assessment.

When you complete this course, you will be able to:

- Understand the requirements of the subjects specified annually by DVSA.
- Understand the benefits of annual training.
- Complete the annual assessment.
- Print off a certificate as proof of annual training hours and the assessment result.

## IMI Accreditation Light Vehicle (ATA) – Inspection Technician

 **Duration:**  
**1 day**

This course is designed for technicians whose job role involves the inspection, maintenance and repair of light vehicles.

Candidates will have to successfully complete a range of practical and knowledge-based assessments. IMI Accreditation is achieved through full assessment, which involves the completion of all practical and knowledge-based assessments at each level.

The accreditation will certify technicians' ability to use emission-testing equipment for both petrol and diesel vehicles, as well as to accurately analyse the results of these emission tests. Achievement ensures that candidates meet the requirements to take the MOT tester course.

On completion of this course, inspection technicians will be able to calibrate emission test equipment before testing a vehicle, accurately inspect a vehicle, diagnose faults and correct repair requirements. As well as having the knowledge of the appropriate wiring diagram required for the electrical systems of the vehicle being tested, and the skill to apply it.

### Modules involved in this course are:

- Emission system
- Electrical system
- Braking system
- Steering and suspension system
- Vehicle structure\*
- Vehicle appraisal

Prior to this course it would be expected that delegates have a minimum of three years' industry experience and on completion of this course candidates will leave with the following key benefits:

- An IMI accredited certificate
- Inclusion on the IMI professional register
- Industry-wide recognition of their skills and abilities
- Confidence
- Advice and guidance for development
- An opportunity for career progression

\*This module is a knowledge-only assessment consisting of 10 online questions. This test is mandatory to complete as well as the overall 30-question test covering the remaining modules.



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## IMI Accreditation Light Vehicle (ATA) – Service Maintenance Technician

 **Duration:**  
1 day

Candidates for our Service Maintenance Technician should be working in the light vehicle sector of the industry and ideally have at least two years' experience to ensure they are familiar with the skills, knowledge and techniques required to service, maintain and repair vehicles.

### This accreditation will demonstrate the technician's ability to:

- Obtain the alignment target from the manufacturer for the vehicle model
- Demonstrate the appropriate knowledge in the use of Personal Protection Equipment (PPE)
- Follow health and safety procedures
- Understand additional vehicle components
- Use wheel alignment tools and equipment

### Modules involved in this course are:

- Mechanical systems
- Electrical systems (basic)
- Computer-based test equipment (basic)
- Braking system
- Vehicle safety inspection
- Vehicle service
- Vehicle appraisal – inspection

### On completion of this course, attendees will leave with the following key benefits:

- An IMI accredited certificate
- Inclusion on the IMI professional register
- Industry wide recognition of their skills and abilities
- Confidence
- Advice and guidance for development
- An opportunity for career progression

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## IMI Accreditation Light Vehicle (ATA) – Diagnostic Technician

 **Duration:**  
1 day

Candidates for our Diagnostic Technician qualification should be working in the light vehicle sector of the industry and ideally have at least three years' experience to ensure they are familiar with the skills, knowledge and techniques required to diagnose system faults, rectify the faults including replacing components and return the vehicle systems to manufacturer specification.

### This accreditation will demonstrate the technician's ability to:

- Accurately measure a component's dimensions and select the correct information for a specific vehicle
- Accurately define whether a component is within or outside of tolerances as defined by the manufacturer's literature

Technicians will also have a sound knowledge of petrol and diesel vehicles' engine components and operation. Achieving this level ensures that candidates meet the requirements to join the DVSA MOT tester course.

### Modules involved in this course are:

- Four-wheel alignment – interpretation of data
- Mechanical system diagnostics
- Electrical system diagnostics
- Computer-based test equipment – diagnostics
- Vehicle safety systems

### On completion of this course, attendees will leave with the following key benefits:

- An IMI accredited certificate
- Inclusion on the IMI professional register
- Industry-wide recognition of their skills and abilities
- Confidence
- Advice and guidance for development
- An opportunity for career progression



## IMI Accreditation Light Vehicle (ATA) – Master Technician

 **Duration:**  
1 day

Candidates for our Master Technician qualification should be working in the light vehicle sector of the industry and ideally have at least five years' experience to ensure they are familiar with the skills, knowledge and techniques required to diagnose system faults and rectify these faults (including replacing components), liaise with customers at all levels and be able to transfer their technical knowledge to others such as apprentices and technicians.

### This accreditation will demonstrate the technician's ability to:

- Diagnose an electrical fault when a vehicle's electric system is integrated within a network communication system
- Determine a logical path for diagnosing/rectifying a vehicle's electrical fault

Technicians will also have an in-depth knowledge of how its electrical system links and integrates with its communication system.

### Modules involved in this course are:

- Electrical systems – Complex
- Electrical systems (Diagnostic/Scan tool diagnosis) – Complex
- Computer-based test equipment – Complex
- Instructional support and customer liaison

### On completion of this course, attendees will leave with the following key benefits:

- An IMI accredited certificate
- Inclusion on the IMI professional register
- Industry-wide recognition of their skills and abilities
- Confidence
- Advice and guidance for development
- An opportunity for career progression

## IMI Accreditation Light Vehicle (ATA) – Electric/Hybrid Vehicle Technician

 **Duration:**  
1 day

Candidates should have prior knowledge of vehicle electrical systems, this course will ensure they are familiar with the knowledge and competence required to safely disconnect and reconnect vehicles fitted with high voltage batteries/components such as 'hybrid' or pure electric vehicles. This qualification is suitable for BS10125 accredited accident repair centres.

### This accreditation will demonstrate the technician's ability to:

- Identify high voltage cabling and components
- Follow procedures before removing or disarming HV safety devices
- Measure any voltages to recognise if the vehicle is in a safe condition for service or repair work
- Advise when a vehicle is 'safe' for others to perform maintenance tasks or repair procedures on

Technicians will also have the knowledge to select the correct tools and equipment throughout the task

### Modules involved in this course are:

- Safe working practices
- High voltage battery replacement
- High voltage component replacement

### On completion of this course, attendees will leave with the following key benefits:

- An IMI accredited certificate
- Inclusion on the IMI professional register
- Industry-wide recognition of their skills and abilities
- Confidence
- Advice and guidance for development
- An opportunity for career progression



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## Fundamentals of Automotive Electricity

 **Duration:**  
5 days

This course is designed to introduce technicians to fault-finding procedures relating to electrical repairs. The course begins with a review of fundamental electrical principles and progresses to the use of multi-meters. As the course continues the operating principles of basic electrical components and circuits are explored. During the course, specialist training equipment is used that is designed to enhance the learning experience. It is strongly recommended that this course is completed prior to the more advanced courses.

**On completion of this course, candidates will have an understanding of:**

- Current
- Voltage
- Resistance
- Ohms and power law
- Parallel and series/combined circuits
- CAN bus systems
- Multi-meter use
- Amp clamp use
- Relays
- Transistors
- Diodes
- Capacitors
- Open circuit faults
- High resistance faults
- Short circuit faults
- Wiring diagrams
- Testing procedures

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## Operating Principles of Fuel Injection and Ignition Systems

 **Duration:**  
5 days

This course is targeted at technicians who wish to enhance their understanding of fuel injection and ignition systems. The course has both practical and theory content covering the subject area in depth. It would be expected that delegates have a good understanding of electrical fundamentals prior to the course. During the course the operating principles of the various components required within the fuel and ignition systems will be explained.

This course has a high practical content to encourage confidence in the use of diagnostic equipment. The course is designed to provide technicians with skills that relate to the practical application of diagnostic procedures relating to electrical components.

**On completion of this course, candidates will have an understanding of:**

- Electronic ignition systems
- Wasted spark ignition systems
- Ignition waveforms
- Engine speed sensor inductive and Hall effect
- Cylinder recognition sensor
- Vane type airflow sensor
- Hot wire type airflow sensor
- MAP sensor – analogue and digital signal
- Temperature sensors
- Throttle position sensor
- Knock sensor and lambda sensor
- Waveforms on above
- Turbo charging
- Catalytic converters
- Common rail diesel
- Hybrid systems
- Fuel injectors, electrical circuits and control circuits
- Idle speed control
- EGR
- EVAP
- Self diagnosis systems
- Wiring diagrams
- Introduction to oscilloscopes



## Advanced Engine Management Diagnosis & EOBD Systems

 **Duration:**  
5 days

This course is targeted at technicians who wish to enhance their understanding of engine management systems. The course has both practical and theory content covering the subject area in depth. It would be expected that delegates have a good understanding of electrical fundamentals prior to the course. During the course the operating principles of the various components required within the engine management system will be explained, including input and output signal types, power supplies and wiring diagrams. This course has a high practical content to encourage confidence in the use of diagnostic equipment. The course is designed to provide technicians with skills that relate to the practical application of diagnostic procedures relating to engine management.

**On completion of this course, candidates will have an understanding of:**

- Exhaust emissions
- Lambda sensors
- Electric control
- ECU mapping
- Fault code diagnosis
- ECU self diagnosis
- EOBD and EOBD II
- Fault code diagnosis
- Advanced diagnostic procedures
- Diagnosis using oscilloscopes
- Engine management wiring

## Four-wheel Alignment

 **Duration:**  
1 day

This course is designed to give the mechanical/bodyshop technician an understanding of four-wheel alignment along with learning the theory, angles measured and any pre-requisite necessary to carry out a check. The course also covers possible suspension defects and the effects this could have on tyre wear and the handling performance of a vehicle.

This course has a high practical content and full participation by delegates is required. It is aimed at technicians who carry out this aspect of repair to accident-damaged vehicles with a need to increase their knowledge using current equipment.

**On completion of this one-day course, candidates will have an understanding of:**

- Theory of angles: castor, camber, SAI, toe, thrust, setback, toe out on turns
- Effects of the above angles on tyre wear and vehicle handling
- Pre-alignment inspection of suspension and steering systems
- Measurement procedures using aligning equipment (Balco Laser Line, Mk3, RAV TD 1700 Bluetooth, Hofmann Geoliner 650)
- Adjustment procedures using aligning equipment



## Air Conditioning

 **Duration:**  
1 day

The EC F-gas Regulation requires and sets out the current qualifications and certification requirements. These applied after 4 July 2010, with only personnel possessing one of these qualifications considered to be qualified to take delivery, handle and recover fluorinated refrigerant gases. This is a certified course in mobile air conditioning systems for handling refrigerant. The course is delivered in a practical classroom setting and is aimed to inform delegates of the new legislation covering regulations related to handling and servicing air conditioning systems (reclaim and recharge).

**On completion of this course candidates will have an understanding of:**

- Air conditioning systems
- The basic processes
- Pressures
- Refrigeration cycle
- Refrigeration system
- Refrigeration state and condition
- Lubrication
- Refrigerant recovering
- Air conditioning electrical system
- Refrigerants
- Alternative refrigerants
- The ozone layer and the greenhouse effect
- Regulations and legislation
- Service equipment and service procedures

## LGV PCV DVSA Inspections

 **Duration:**  
2 days

This course is suitable for all those responsible for the maintenance, inspections and preparations of HGVs and PCVs for annual test and scheduled inspections. As a result of attending this course, delegates will find that by employing a more systematic approach to inspecting their vehicles they have maximised their chances of detecting defects.

There is a maximum of four students per course.

**On completion of this course, attendees will leave with the following key benefits:**

- Explanation of the DVSA inspection manual
- Explanation of the Category of Defects manual
- How OCRS systems work
- Inspection procedure
- Testable items for inspections and annual tests
- Assessments of component wear
- Practical inspection

**Training will take place at your premises and facilities required are:**

Classroom:

- LCD projector and screen
- TV and DVD player
- Flipchart or white board

Workshop:

- HGV/PCV
- Pit or ramp with jacking facilities
- Brake testing equipment
- Headlamp testing equipment
- Smoke tester

**Progression**

Bus, Coach & HGV Inspection Technician



## Service Maintenance Technician Large Commercial Vehicles (IRTEC)

 **Duration:**  
1 day

This is an assessment course where technicians must pass a practical assessment and an Underpinning Knowledge (theory) test.

First the technician must pass the Underpinning Knowledge test, which consists of 30 questions.

Once the technician has passed the Underpinning Knowledge test, they will then have to successfully complete the practical assessments.

### Practical assessments in the bus and coach service maintenance licence cover:

- Powertrain systems
- Chassis systems
- Braking systems
- Computer-based test equipment
- Vehicle electrics

Candidates must gain a pass in five practical assessments (one from each area) in addition to the Underpinning Knowledge test at service maintenance level to be successful.

This course is aimed at technicians who have at least two years' industrial experience or a Level 2 S/NVQ (or equivalent qualification) plus at least one year's experience in a relevant industrial environment.

The candidate will be able to demonstrate the correct inspection methods, and use the appropriate equipment and information when making judgements on the serviceability of vehicles systems and components.

Technicians who successfully pass IRTEC assessments are awarded an IRTEC licence. This certifies the individual rather than the employer and is based on current competence. Licences expire after five years.

Employers can be confident that technicians are committed to compliance and standards. Technicians will benefit as being recognised as a competent professional with a high level of skills and technical expertise, they will appear in the IRTEC register and will receive a free Halfords Trade Card.

The course outline for the Large Commercial Vehicle Service Technician course is the same as the above.

## Bus, Coach & HGV Inspection Technician (IRTEC)

 **Duration:**  
1 day

This is an assessment course where technicians must pass a practical assessment and two Underpinning Knowledge (theory) tests.

First the technician must pass the Underpinning Knowledge tests, which consist of 50 questions, this will be split up into 35 questions that will be of technical content and 15 questions that will be of legislative content.

Once the technician has passed the Underpinning Knowledge test, they will have to successfully complete the bus and coach practical assessment.

### The practical assessment in the Bus and Coach Inspection Technician licence is:

- Inspection of vehicles

This course is aimed at technicians who have at least three years' industry experience or a Level 3 S/NVQ (or equivalent qualification) plus at least one year's experience in a relevant industrial environment.

The candidate will be able to demonstrate the correct inspection methods, and use the appropriate equipment and information when making judgements on the serviceability of vehicles systems and components.

Technicians who successfully pass IRTEC assessments are awarded an IRTEC licence. This certifies the individual rather than the employer and is based on current competence. Licences expire after five years.

Employers can be confident that technicians are committed to compliance and standards. Technicians will benefit as being recognised as a competent professional with a high level of skills and technical expertise, they will appear in the IRTEC register and will receive a free Halfords Trade Card.



## IMI Accreditation Light Vehicle (ATA) – Autoglazing Bodyshop Technician

 **Duration:**  
1 day

The technician should be working in the glazing sector of the automotive industry and ideally have at least three years' experience to ensure they are familiar with the skills, knowledge and techniques required to replace and repair automotive glazing units.

### This accreditation will demonstrate the technician's ability to:

- Prepare the vehicle with the appropriate level of protection for the task, both for exterior and interior
- Remove bonded ¼ glazing unit without causing damage to vehicle body or glass
- Identify the method and procedure required to refit the bonded ¼ glazing unit to the vehicle

### Modules involved in this course are:

- Front windscreen remove and repair – intact
- Heated rear windscreen remove and replace – intact
- Bonded front/rear ¼ glazing unit – intact

### On completion of this course, attendees will leave with the following key benefits:

- An IMI-accredited certificate
- Inclusion on the IMI professional register
- Industry wide recognition of their skills and abilities
- Confidence
- Advice and guidance for development
- An opportunity for career progression

**Note: GTG Training is the only provider of this course in Scotland.**

## IMI Accreditation Light Vehicle (ATA) – Senior MET Technician

 **Duration:**  
2 days

This assessment is designed for technicians whose job role involves the repair of vehicles typically involved in accidents or similar incident circumstances.

Candidates will have to successfully complete a range of practical and knowledge-based assessments. IMI accreditation is achieved through full assessment, which involves the completion of all-practical and knowledge-based assessments.

The accreditation will certify the technician's ability to progress to senior MET level.

Technicians must pass eight practical tests and an online knowledge test.

The senior technician should be working in the accident repair sector of the industry and have at least three years' experience to ensure they are familiar with the skills, knowledge and techniques required to replace various components, including returning vehicle systems to manufacturer specification and diagnosing system faults.

### Modules involved in this course are:

- |  |  |
|--|--|
| • Cosmetic Panel Alignment                   | • Vehicle Suspension                             |
| • MET – Complex                              | • Four Wheel Alignment – Return to Specification |
| • Cooling Systems Components                 | • Four Wheel Alignment – Interpretation of Data  |
| • SRS – Scan Tools                           |  |
| • Vehicle Electrical – Complex Fault Finding |  |

### On completion of this course, attendees will leave with the following key benefits:

- |   |   |
|---|---|
| • An IMI accredited certificate                           | • Confidence                            |
| • Inclusion on the IMI professional register              | • Advice and guidance for development   |
| • Industry wide recognition of their skills and abilities | • An opportunity for career progression |



## IMI Accreditation Light Vehicle (ATA) – Senior Paint Technician

 **Duration:**  
2 days

This assessment is designed for technicians whose job role involves the repair of vehicles typically involved in accidents or similar incident circumstances.

Candidates will have to successfully complete a range of practical and knowledge based assessments. IMI Accreditation is achieved through full assessment, which involves the completion of all practical and knowledge-based assessments.

The accreditation will certify the technician's ability to progress to senior paint level.

Technicians must pass nine practical tests and an online knowledge test.

The senior technician should be working in the accident repair sector of the industry and have at least three years' experience to ensure they are familiar with the skills, knowledge and techniques required to give a fault-free finish for both the preparation of panels (existing and new) and the finishing of panels to match existing vehicle paint.

### Modules involved in this course are:

- Polish Panel (Existing)
- Colour Identification & Colour Variant
- Surface Preparation
- Primed Surface – Flattening
- Panel Sealing
- Panel Preparation (New Panel)
- Wet on Wet Primer (application)
- 3 Stage Pearlescent Paint (application)
- Paint Defects & Rectification Procedure

### On completion of this course, attendees will leave with the following key benefits:

- An IMI accredited certificate
- Inclusion on the IMI professional register
- Industry wide recognition of their skills and abilities
- Confidence
- Advice and guidance for development
- An opportunity for career progression

## IMI Accreditation Light Vehicle (ATA) – Senior Panel Technician

 **Duration:**  
3 days

This assessment is designed for technicians whose job role involves the repair of vehicles typically involved in accidents or similar incident circumstances.

Candidates will have to successfully complete a range of practical and knowledge-based assessments. IMI Accreditation is achieved through full assessment, which involves the completion of all-practical and knowledge-based assessments.

The accreditation will certify the technician's ability to progress to senior panel level.

The senior technician should be working in the accident repair sector of the industry and have at least three years' experience to ensure they are familiar with the skills, knowledge and techniques required to repair and replace body components, including returning vehicle alignment to manufacturer specification and rectifying bodyshell faults.

Candidates wishing to be assessed at senior panel technician level must hold a current welding-assessed outcome module certificate for AOM 009 (BS1140 and BS4872).

### Modules involved in this course are:

- Cosmetic Panel Alignment
- MET – Complex
- Panel Damage (Rectification)
- Welded Panel/Section, MIG/MAG, Braze/Bond/Rivet
- Rectify Bodyshell Misalignment (Set up, Measure, Adjust)
- Aluminium Cosmetic Repair
- Cold Filler Repair

### On completion of this course, attendees will leave with the following key benefits:

- An IMI accredited certificate
- Inclusion on the IMI professional register
- Industry wide recognition of their skills and abilities
- Confidence
- Advice and guidance for development
- An opportunity for career progression



## MIG/MAG Welding

 Duration:  
1 day

This course will provide delegates with the knowledge and practical skills to set up and maintain welding equipment and introduce them to the MIG/MAG Welding process and help them train towards BSI 4872.

**On completion of this course, candidates will have an understanding of:**

- Basic machine maintenance
- Correct set up of welding equipment
- Surface preparation
- MIG/MAG welding techniques (lap and butt welds)
- Basic welding fault diagnosis

## IMI Accreditation Resistance Spot Welding (BS1140) MAG Welding (BS4872) AOM 009 – Level 2

 Duration:  
1/2 day

This single unit assessment covers the welding requirement for the IMI Accreditation and is a prerequisite for candidates wishing to achieve IMI Accreditation Panel Technician / Senior Technician. The certification must be 'current' (issued within the last two years), and must be quality assured by an awarding organisation that is recognised by the IMI.

This module is designed for anyone who has experience of MIG/MAG welding and resistance spot welding and has a need to have an IMI accreditation.

**This accreditation will demonstrate the candidate's ability to:**

- Set up welding equipment for both MAG and resistance spot welding.
- Produce a series of MAG butt / fillet welds in the vertical up and overhead positions to meet BS4872-1.
- Assess MAG welds for visible defects.
- Complete a series of resistance spot welds to meet BS1140.
- Assess resistance spot welds for visible defects.

**On completion of this course, attendees will leave with the following key benefits:**

- An IMI-accredited certificate
- Inclusion on the IMI professional register
- Industry wide recognition of their skills and abilities
- Confidence
- Advice and guidance for development
- An opportunity for career progression



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## Aluminium Cosmetic Repair

 **Duration:**  
1 day

This course is designed to provide candidates with knowledge and practical skills in Aluminium Cosmetic Repair techniques. The course provides candidates with the correct procedure for the effective repair of Aluminium Vehicle Body Panels. The course will also help those candidates that are aiming for the ATA Senior Panel qualification.

This course is for anyone who has knowledge and experience of automotive body repair techniques and is keen to expand their knowledge in Aluminium Cosmetic Repair.

**On completion of this course, candidates will have an understanding of:**

- Health and safety
- Characteristics of sheet aluminium
- Aluminium repair processes
- Working areas
- Repair tools required
- Heat indicators
- Repair of mirror panel damage

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## Car-O-Tronic Computerised Measuring System

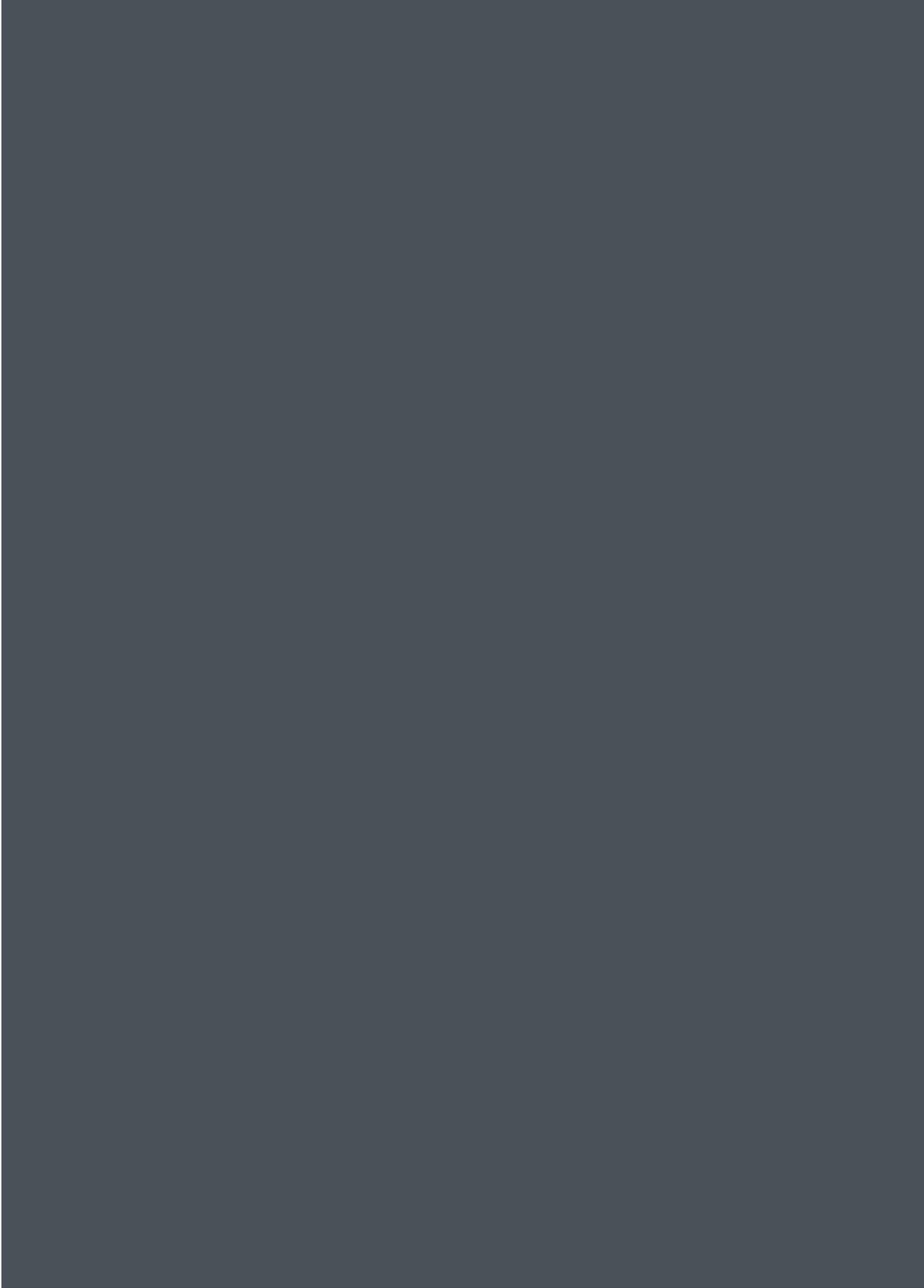
 **Duration:**  
1 day

This course is designed to enable candidates to develop the confidence and skills required to undertake repairs involving moderate to severe accident damage, using body alignment equipment. Practical involvement and full participation by all candidates is required to ensure successful completion of the course.

This course is for anyone who has no or little knowledge of Car-O-Tronic computerised measuring systems and may also be beneficial for body repair technicians as a refresher course.

**On completion of this course, candidates will have an understanding of:**

- The skills in setting up the measuring system and the vehicle to enable measurement to take place.
- The ability to accurately measure the vehicle.
- The ability to accurately diagnose any misalignment of the vehicle.
- How to carry out corrective alignment to restore the vehicle body to manufacturer dimensions.
- Removal of the measuring system on completion of the task.



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