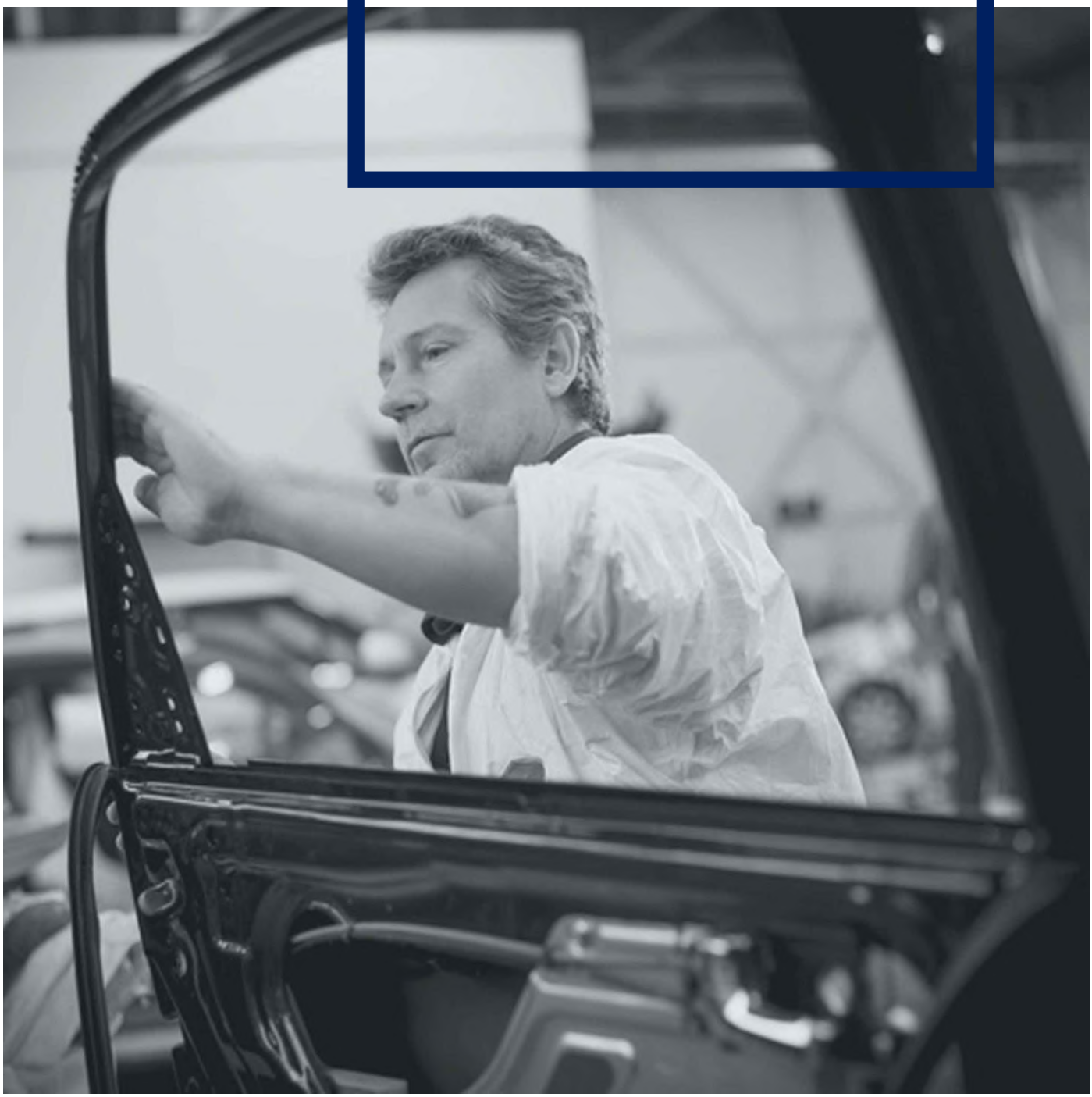
IMI ACCREDITATION

MECHANICAL, ELECTRICAL AND TRIM (MET)



What is IMI Accreditation?	

IMI Accreditation is a practical, non-academic way to demonstrate individual capability, providing independent proof of current competence, knowledge and skills.

Focused on the Light Vehicle area of the automotive sector, IMI Accreditation encompasses everyone within this area, from individuals working directly on vehicles to those advising customers or managing a dealership. Three different types of accreditation reflect the diverse range of roles within the motor industry: Technical, Customer-facing, and Management.

Accreditation typically takes just one day to achieve (depending on the specific route), with individuals assessed against industry-agreed standards. Each accreditation route is designed using best practice techniques, and offers multiple career development options for a specific job role.

Accreditation is available for the following routes:	

- Technical
- Customer-facing
- Management

Once an individual has passed all the required practical and knowledge-based modules in a specific route, they will receive a certificate of achievement which is valid for three years.

IMI Accreditation benefits

IMI Accreditation was created to help the motor industry keep on top of constant, rapid changes in technology, legislation and working methods, by encouraging and measuring the current competence, knowledge and ability of those working within it. By providing proof of current competence, IMI Accreditation benefits both individuals and their employers.

Those gaining accreditation receive:

- An IMI Accredited certificate
- Inclusion on IMI Professional Register
- Industry-wide recognition of their skills and abilities
- Advice and guidance for development
- An opportunity for career progression

While the employer of an accredited individual benefits from:

- Confidence in the individual's ability
- Eligibility for British Standard / DVSA requirements (depending on routes)
- Increased customer visibility on the IMI Professional Register
- Higher work output and fewer mistakes
- Public confidence in abilities

Industry Recognition through the IMI Professional Register

The IMI Professional Register is an industry-wide database of professionals in the motor industry. The Register is promoted to consumers as a place to find trustworthy professionals who have proven their skills and competence within specialist areas of the industry. IMI Accredited individuals are automatically included on the IMI Professional Register.

Routes to Accreditation

There are two routes to gaining IMI Accredited status: Full Assessment, and Conversion. Full Assessment involves the completion of all practical and knowledge-based assessments at each level. Conversion enables an individual to use existing qualifications to gain exemption from specific modules.

IMI Accreditation continually evolves to meet the changing needs of the industry, with each accreditation valid for three years, after which time an individual is required to undertake a new assessment either at the same level, next career level or a different route in order to prove their current competence.

IMI Accreditations are delivered through the IMI approved centre network, and you can find your nearest centre or explore assessment routes at www.theimi.org.uk/awarding.

Who is the MET route for?	

The MET route is intended for technicians whose job role involves the repair of vehicles typically involved in accidents or similar incident circumstances.

There are two levels within MET:

- **The Technician** should be working in the accident repair sector of the industry and must have at least two years' experience to ensure they are familiar with the skills, knowledge and techniques required to remove and refit or replace various components such as mechanical items and trim.

- **The Senior Technician** should be working in the accident repair sector of the industry and must 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.

MET Route Structure	

For technicians wishing to achieve accreditation there is only one method:

- **Full Assessment**

For technicians wishing to retain their accreditation there are two options, these are:

- **Full Assessment**
  or
- **AOM Update**

Note: In order to re-accredit using 'AOM Updates' (Assessed Outcome Modules) the technician's accreditation must remain valid throughout the assessments and until all of the prescribed AOMs have been passed. Should the accreditation expire beforehand, the technician will be required to re-take a 'full assessment'.

MET- Technician	Full Assessment

This level requires the technician to complete the following modules:

Realignment of Cosmetic Body Panels	AOM- 002
Cooling System Components	AOM- 003
SRS Components – Removing, Refitting, Safe Handling and Storage	AOM- 004
Vehicle Electrical – Fault Finding	AOM- 005
Remove and Refit Mechanical Electrical and Trim (MET) Components	AOM- 044

This will normally be a one day assessment.

MET- Senior Technician	Full Assessment

This level requires the technician to complete the following modules:

Remove and Refit Mechanical Electrical and Trim (MET) - Complex	AOM–006
Vehicle Electrical - Complex Fault Finding and Rectification	AOM–007
Vehicle Suspension	AOM–008
Four Wheel Alignment - Return to Specification	AOM–012
High Voltage - Safe Working Module	AOM–081
Remove and Refit a Front Door Control Module	AOM–194

This will normally be a two day assessment.

MET- Technician	AOM Update Reaccreditation only

This level requires the technician to complete the following modules:

SRS Components	AOM- 004
Vehicle Electrical – Fault Finding	AOM- 005
Remove and Refit Mechanical Electrical and Trim (MET) Components	AOM- 044

This may be achieved through a one day assessment or alternatively achieved over a period of time not more than three years before the expiry of the individual's accreditation.

MET- Senior Technician	AOM Update Reaccreditation only

This level requires the technician to complete the following modules:

Vehicle Electrical - Complex Fault Finding and Rectification	AOM–007
Vehicle Suspension	AOM–008
High Voltage - Safe Working Module	AOM–081

This may be achieved through a one day assessment or alternatively achieved over a period of time not more than three years before the expiry of the individual's accreditation.

Accreditation Module Title	Realignment of Cosmetic Body Panels

Module Code	AOM- 002

Practical Assessment Time	30 minutes

On-line Knowledge Test	K- 002

IMI AOM Level	2

Module Overview
This module ensures the technician has the knowledge, skills and ability to remove, refit and align cosmetic body panels ensuring alignment and panel gaps are set to the correct specification. The technician will need to remove a bolt on body panel (hinged or fixed) from a vehicle without causing further damage. They will also need to ensure the body panel is stored correctly to prevent damage before refitting the body panel back to the vehicle. The technician is also required to ensure that any locks and catches that require adjustment are aligned to manufacturer's specifications and open and close correctly.

Technician Profile
The technician should be working in the accident repair sector and must have at least two years' experience to ensure they are familiar with the skills, knowledge and techniques required to remove, refit or replace various components, such as vehicle body panels and any associated parts.

Links with Accreditation Routes and Modules	
This module features in:	
IMI Accreditation Route	**IMI Accreditation Level**
MET	Technician
Panel	Technician
	Senior Technician

Skills Requirements	
The technician must demonstrate their skills and ability to:	
1.1	use appropriate Personal Protective Equipment (PPE)
1.2	use appropriate Vehicle Protection Equipment (VPE)
1.3	accurately assess the vehicle for pre-existing damage prior to work commencing
1.4	protect the vehicle prior to removing any MET components and cosmetic body panels to prevent further damage to the vehicle during the assessment
1.5	consult, use and understand the vehicle manufacturer's and approved researched repair methods to enable the technician to carry out the removal and refit of MET components
1.6	disconnect and remove vehicle ancillary items to gain access to the repair without causing damage to the vehicle
1.7	remove cosmetic body panels without causing damage to the vehicle and/or systems (record pre alignment gap measurements)
1.8	select and use the correct range of tools and equipment including checking, carry out any calibration or actions required pre and post the task
1.9	store components in a safe suitable manner and in the designated storage area, using bags, containers and materials provided during removing and refitting cosmetic body panels
1.10	prepare the local area before re-fitting cosmetic body panels
1.11	refit the cosmetic body panels and components without causing damage to the vehicle and/or systems (record post alignment gap measurements)
1.12	replace all components to the vehicle specification; make adjustments to ensure correct alignment including: torque settings for all components fixtures
1.13	carry out final checks, tested fit, function, operation, alignment of reassembled cosmetic body panels and components (adjusting as required)
1.14	take appropriate care throughout the assessment
1.15	use safe working practices throughout the assessment
1.16	work within given time constraints

Knowledge Requirements	
The technician must know and understand:	
2.1	how to select and use technical information and approved researched repair methods
2.2	tools, equipment, correct use of products and including their maintenance used when removing and refitting cosmetic body panels
2.3	the types of fasteners used when fitting cosmetic body panels
2.4	the types of materials used in the construction of vehicle body panels
2.5	products and techniques used in removing and refitting vehicle body panels and their components
2.6	safe working practices required for the task
2.7	EPA awareness and waste management

Accreditation Module Title	Cooling Systems Components

Module Code	AOM- 003

Practical Assessment Time	1 hour

On-line Knowledge Test	K- 003

IMI AOM Level	2

Module Overview	

This module ensures the technician has the knowledge, skills and ability to remove and refit engine cooling system components which will require the draining of the engine coolant from the system and storing / disposing of the coolant in line with any environmental requirements.

The technician will need to remove cooling system component(s) from a vehicle and store correctly. Once removed, the cooling system component(s) will need to be replaced, coolant refilled with the correct type and content / strength of antifreeze. The cooling system will need to be bled in accordance with the specified procedure and any actions taken in regard to checking the cooling system for leaks.

The technician will also need to access and interpret any approved repair methods / manufacturer specification required to carry out the task.

Technician Profile	

The technician should be working in accident repair sector as an MET technician. The technician will need prior knowledge, skills and abilities to enable them to meet the criteria set out within this module.

Links with Accreditation Routes and Modules	
This module features in:	
IMI Accreditation Route	**IMI Accreditation Level**
MET	Technician

Skills Requirements	
The technician must demonstrate their skills and ability to:	
1.1	use appropriate Personal Protective Equipment (PPE)
1.2	use appropriate Vehicle Protection Equipment (VPE)
1.3	consult, use and understand the vehicle manufacturer's and approved researched repair methods to enable the technician to carry out the removal and refit of cooling system components
1.4	select and use correct tools and equipment throughout the removal and refitting of cooling system components
1.5	disconnect and remove ancillary items to gain access to components without causing damage to the vehicle
1.6	drain and store coolant removed from the cooling system
1.7	remove the cooling system components without causing damage to the vehicle or its systems using vehicle manufacturer's and approved researched repair methods
1.8	store components in a safe suitable manner and in the designated storage area
1.9	inspect and report on the condition of the cooling system and the related components
1.10	check clips, fittings and fixtures for serviceability and replaced where necessary
1.11	replace cooling system components following vehicle manufacturer's and approved researched repair methods
1.12	check the engine coolant meets the required coolant strength and alter if additional coolant was required
1.13	refill the cooling system with coolant as per manufacturer's technical data
1.14	explain the correct procedures to ensure the system is free of trapped air and the system reaches the correct operating temperature
1.15	explain the correct procedures to carry out checks for cooling fan operation and coolant leaks
1.16	correctly clean and store all tools and equipment
1.17	explain how you would ensure compliancy with the Environment Protection Act (EPA)
1.17	take appropriate care throughout the assessment
1.18	use safe working practices throughout the assessment
1.19	work within given time constraints

Knowledge Requirements	
The technician must know and understand:	
2.1	components fitted to engine cooling, heating and ventilation systems components
2.2	the function of engine cooling, heating and ventilation system components
2.3	techniques used in the removal and replacement of engine cooling system components
2.4	methods and procedures used to reinstate cooling systems after the replacement of cooling system components
2.5	tools and equipment used in the replacement and repair of engine cooling system components
2.6	information accessed and used during the replacement and repair of engine cooling system components
2.7	safe working practices required for the task
2.8	EPA awareness and waste management

Accreditation Module Title	SRS Components – Removing, Refitting, Safe Handling and Storage

Module Code	AOM- 004

Practical Assessment Time	45 minutes

On-line Knowledge Test	K- 004

IMI AOM Level	2

Module Overview	
This module ensures the technician has the knowledge, skills and ability to remove and refit Supplementary Restraint System (SRS) components. This will include the refitting of an 'airbag' including safe handling, storing and following health and safety guidelines ensuring their own and others safety is maintained during the task.	

Technician Profile	
The technician should be working in the accident repair sector of the industry. The technician will need prior knowledge, skills and abilities to enable them to meet the criteria set out within this module.	

Links with Accreditation Routes and Modules	
This module features in:	
IMI Accreditation Route	**IMI Accreditation Level**
MET	Technician

Skills Requirements	
The technician must demonstrate their skills and ability to:	
1.1	use appropriate Personal Protective Equipment (PPE)
1.2	use appropriate Vehicle Protection Equipment (VPE)
1.3	consult, use and understand the vehicle manufacturer's and approved researched repair methods to enable the technician to carry out the removal and refitting of SRS components
1.4	select and use correct tools and equipment throughout the assessment
1.5	Isolate / disarm an SRS device prior to removal of component(s)
1.6	ensure suitable discharge time is given prior to removal of an SRS device
1.7	remove an SRS device following approved researched repair methods and / or manufacturer's technical data
1.8	use correct methods to transport and store an SRS device
1.9	store an SRS device in a safe manner and in a designated storage area, logging and registering of explosive devices in accordance with legislation
1.10	refit the SRS device following approved researched repair methods and / or manufacturer's technical data
1.11	carry out final quality checks to the vehicle
1.12	correctly clean and store all equipment and materials on completion of task
1.13	take appropriate care throughout the assessment
1.14	use safe working practices throughout the assessment
1.15	work within given time constraints

Knowledge Requirements	
The technician must know and understand:	
2.1	Supplementary Restraint Systems (SRS) components and their operation
2.2	functions of Supplementary Restraint Systems (SRS) components
2.3	techniques used in the removal and replacement of SRS components
2.4	electrical functions within a SRS including the understanding of electrical wiring diagram(s)
2.5	tools and equipment used in the repair and replacement of SRS components
2.6	information to access and use during the replacement and repair of SRS components
2.7	safe working practices required for the task
2.8	EPA awareness and waste management

Accreditation Module Title	Vehicle Electrical – Fault Finding

Module Code	AOM- 005

Practical Assessment Time	30 minutes

On-line Knowledge Test	K- 005

IMI AOM Level	2

Module Overview	
This module ensures the technician has the knowledge, skills and ability to diagnose an electrical fault (open circuit). The technician will need to access vehicle information such as component location and the appropriate electrical wiring diagrams. Use diagrams together with electrical test equipment such as multi-meter (volts, amps, ohms) to diagnose the system fault. Once the electrical fault has been diagnosed, the technician should have the ability to rectify electrical faults and check the system is functioning as per the vehicle manufacturer's original specification.	

Technician Profile	
The technician should be working in the accident repair sector of the industry. The technician will need prior knowledge, skills and abilities to enable them to meet the criteria set out within this module.	

Links with Accreditation Routes and Modules	
This module features in:	
IMI Accreditation Route	**IMI Accreditation Level**
MET	Technician

Skills Requirements	
The technician must demonstrate their skills and ability to:	
1.1	use appropriate Personal Protective Equipment (PPE)
1.2	use appropriate Vehicle Protection Equipment (VPE)
1.3	consult, use and understand the vehicle manufacturer's and approved researched repair methods to enable the technician to carry out electrical fault finding
1.4	assess and check for pre-existing damage and / or serviceability in the area of the vehicle to be worked on
1.5	carry out visual checks to electrical system
1.6	select and use a range of tools and equipment to carry out electrical testing
1.7	use logical testing sequences to diagnose electrical faults without using a substitution of components to diagnose
1.8	take precautions to avoid static electricity discharge
1.9	report the type of electrical fault found and provide an explanation on how to rectify
1.10	rectify an electrical fault
1.11	carry out final quality checks to confirm operation of the component and systems post rectification
1.12	correctly clean and store all equipment and materials on completion of task
1.13	take appropriate care throughout the assessment
1.14	use safe working practices throughout the assessment
1.15	work within given time constraints

Knowledge Requirements	
The technician must know and understand:	
2.1	vehicle electrical system component operations and their functions
2.2	techniques used in the removal, repair and replacement of vehicle electrical system components
2.3	tools and equipment used in the diagnosis, repair and replacement vehicle electrical system and its components
2.4	information accessed and used during the repair and replacement of vehicle electrical system components
2.5	safe working practices required for the task
2.6	EPA awareness and waste management

Accreditation Module Title	Remove and Refit Mechanical, Electrical and Trim (MET) Components - Complex

Module Code	AOM- 006

Practical Assessment Time	2 hours

On-line Knowledge Test	K- 006

IMI AOM Level	3

Module Overview	

This module ensures the technician has the knowledge, skills and ability to remove and refit vehicle exterior and interior trim without damaging either the vehicle bodywork or its systems.

The technician will need to remove and refit items including a bumper cover which contain advanced driver assistance system sensors (such as proximity sensors) and their associated components. They will also need to remove and refit headlamp(s) of the Xenon (HID) type, exterior door handle and associated components including the door card / trim.

The technician will be required to realign the components using the correct tools and equipment which may include the use of diagnostic equipment / scan tools.

The technician should ensure that the system(s) are operating as per the vehicle manufacturer's specification.

Technician Profile	

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

Links with Accreditation Routes and Modules	
This module features in:	
IMI Accreditation Route	**IMI Accreditation Level**
MET	Senior Technician
Panel	Senior Technician

Skills Requirements	
The technician must demonstrate their skills and ability to:	
1.1	use appropriate Personal Protective Equipment (PPE)
1.2	use appropriate Vehicle Protection Equipment (VPE)
1.3	correctly assess and check vehicle systems prior to assessment and ensure functionality
1.4	protect the vehicle prior to removing any MET components in order to prevent damage to the vehicle and / or systems during the assessment
1.5	consult, use and understand the vehicle manufacturer's and approved researched repair methods to enable the technician to carry out the removal and refit of MET components
1.6	raise and support a vehicle before removing MET components
1.7	assess and prepare the vehicle prior to removal of mechanical and electrical components (disconnected battery, fuses etc.)
1.8	select and use the correct range of tools and equipment including checking, carry out any calibration or actions required pre and post the task
1.9	disconnect vehicle headlamp (advanced lighting system headlamp i.e. HID, Reflective and LED) without causing damage to the vehicle components and / or vehicle systems
1.10	store components in a safe suitable manner and in the designated storage area, using bags, containers and materials provided during the removal and refitting of MET components
1.11	remove and refit headlamp (advanced lighting system headlamp i.e. HID, Reflective and LED) to the vehicle / manufacturer's specification
1.12	adjust component settings, including alignment of the headlamps aim, as per the vehicle manufacturer's legal requirements
1.13	remove vehicle trim (door card and its electrical components) without causing damage to components and/or vehicle systems
1.14	remove and refit door release mechanism (interior / exterior) without causing damage to components and / or vehicle systems
1.15	check MET component clips, fittings and fixtures for serviceability and replace where necessary
1.16	refit the interior trim, door membrane, card and any electrical components without causing damage to components and / or vehicle systems
1.17	refit and adjust components to manufacturer's specification and torque settings
1.18	check the operation of door locks, fittings, electrical components and handles to ensure they are working correctly after refitting
1.19	disconnect, remove and refit a bumper containing ADAS proximity/parking sensors without causing damage to the vehicle components and / or vehicle systems
1.20	adjust components settings including alignment of the bumper and any vehicle safety systems as per the vehicle manufacturer's requirements

1.21	access vehicle system(s) with the appropriate tools and equipment including scan / diagnostic tools to reinstate a fault free condition after refitting vehicle safety systems (i.e. ADAS sensors) within the bumper and associated components
1.22	take appropriate care throughout the assessment
1.23	use safe working practices throughout the assessment
1.24	work within given time constraints

Knowledge Requirements	
The technician must know and understand:	
2.1	how to select and use technical information and approved researched repair methods
2.2	tools and equipment including their maintenance used in the removal, repair and refitting / replacing of vehicle MET components and how they are used to communicate with vehicle systems
2.3	MET component functions, operation and repair techniques used when removing and refitting of MET components
2.4	vehicle electrical systems and related components including vehicle safety (ADAS) systems, network communication and high voltage systems such as advanced lighting
2.5	legal requirements for headlight alignment
2.6	safe working practices required for the task
2.7	EPA awareness and waste management

Accreditation Module Title	Vehicle Electrical - Complex Fault Finding and Rectification

Module Code	AOM- 007

Practical Assessment Time	1 hour

On-line Knowledge Test	K- 007

IMI AOM Level	3

Module Overview	
This module ensures the technician has the knowledge, skills and ability to diagnose and rectify a complex electrical fault The technician will access vehicle information and use diagnostic equipment to diagnose a complex system fault. Once the electrical fault has been diagnosed, the technician must rectify and check the system(s) are functioning correctly and meet manufacturers' specifications.	

Technician Profile	
The technician should be working in the accident repair sector. The technician will need prior knowledge, skills and abilities to enable them to meet the criteria set out within this module.	

Links with Accreditation Routes and Modules	
This module features in:	
IMI Accreditation Route	**IMI Accreditation Level**
MET	Senior Technician

Skills Requirements	
The technician must demonstrate their skills and ability to:	
1.1	use appropriate Personal Protective Equipment (PPE)
1.2	use appropriate Vehicle Protection Equipment (VPE)
1.3	consult, use and understand the vehicle manufacturer's and approved researched repair methods to enable the technician to carry out complex electrical fault finding and rectification
1.4	assess and check for pre-existing damage and/or serviceability in the area of the vehicle to be worked on
1.5	select and use a range of tools and equipment to carry out electrical testing and diagnosing complex electrical faults
1.6	isolate and protect vehicle electrical systems
1.7	use logical testing sequences to diagnose complex electrical faults without using a substitution of components
1.8	check for stored electrical faults in control units
1.9	report and record the type of complex electrical faults found and provide a suitable explanation on how to rectify
1.10	rectify the electrical fault found without causing damage to other electrical systems and components
1.11	carry out final quality checks to confirm operation of the component and system post rectification
1.12	clean and store all equipment and materials on completion of task
1.13	take appropriate care throughout the assessment
1.14	use safe working practices throughout the assessment
1.15	work within given time constraints

Knowledge Requirements	
The technician must know and understand:	
2.1	how to isolate and protect vehicle electrical systems
2.2	how to select, interpret and use sources of information which are applicable to diagnosing faults on vehicle safety or driver assistance systems
2.3	electrical testing and diagnostic equipment to identify faults on vehicle safety or driver assistance systems
2.4	the correct procedures to efficiently diagnose electrical faults on vehicle safety or driver assistance systems
2.5	software and equipment which is appropriate to configure the vehicle system(s)
2.6	how to check for stored faults in the system control units
2.7	how to check the vehicle safety or driver assistance systems operate correctly and meet the manufacturer's specifications
2.8	isolating and protecting vehicle electrical systems
2.9	safe working practices required for the task
2.10	EPA awareness and waste management

Accreditation Module Title	Vehicle Suspension

Module Code	AOM- 008

Practical Assessment Time	1 hour 30 minutes

On-line Knowledge Test	K- 008

IMI AOM Level	3

Module Overview	
This module ensures the technician has the knowledge, skills and ability to remove and refit vehicle suspension and associated components The technician will be required to remove and refit sub systems such as road springs which may require the use of special tools. The technician will also return the vehicle back to specification and check system(s) are functioning as per the vehicle manufacturer's original specification.	

Technician Profile	
The technician should be working in the accident repair sector of the industry. The technician will need prior knowledge, skills and abilities to enable them to meet the criteria set out within this module.	

Links with Accreditation Routes and Modules	
This module features in:	
IMI Accreditation Route	**IMI Accreditation Level**
MET	Senior Technician

Skills Requirements	
The technician must demonstrate their skills and ability to:	
1.1	use appropriate Personal Protective Equipment (PPE)
1.2	use appropriate Vehicle Protection Equipment (VPE)
1.3	consult, use and understand the vehicle manufacturer's and approved researched repair methods to enable the technician to carry out the removal and refit of suspension components
1.4	raise and support a vehicle before removing components
1.5	select and use a range of tools and equipment required for the task
1.6	disconnect or remove ancillaries / trims to gain access without causing damage to the vehicle or its systems
1.7	remove / disconnect any wiring, joints and parts to aid removal of the suspension unit
1.8	remove the front suspension strut and mechanical components following vehicle manufacturer's and approved researched repair methods
1.9	remove and refit the coil spring using appropriate clamps and / or specialised tools and equipment
1.10	refit the front suspension strut and mechanical components following vehicle manufacturer's and approved researched repair methods
1.11	identify any safety critical 'use once only' components in accordance to vehicle manufacturer's and approved researched repair methods
1.12	adjust components to manufacturer's specification and torque settings
1.13	carry out quality checks, tested fit, function, operation and alignment of reassembled components
1.14	explain what you would do to ensure correct alignment of suspension components
1.15	clean and store all equipment and materials on completion of task
1.16	take appropriate care throughout the assessment
1.17	use safe working practices throughout the assessment
1.18	work within given time constraints

Knowledge Requirements	
The technician must know and understand:	
2.1	types of vehicle suspension systems
2.2	vehicle suspension system(s) components
2.3	vehicle braking system components
2.4	vehicle suspension, braking system component operation
2.5	techniques used in the removal, repair and replacement of vehicle suspension, braking systems and related components
2.6	tools and equipment used in the removal, repair and replacement of vehicle suspension, braking systems and related components
2.7	information accessed and used during the removal, repair and replacement of vehicle suspension, braking systems and related components
2.8	braking systems including ABS and related components
2.9	suspension sub-systems, dampers / shock absorbers, road springs
2.10	wheels and tyres
2.11	driveline systems and components
2.12	vehicle emission systems
2.13	safe working practices required for the task
2.14	EPA awareness and waste management

Accreditation Module Title	Four Wheel Alignment- Return to Specification

Module Code	AOM- 012

Practical Assessment Time	1 hour 30 minutes

On-line Knowledge Test	K- 012

IMI AOM Level	3

Module Overview	
This module ensures the technician has the knowledge, skills and ability to check a vehicle's four wheel alignment / geometry. This will include ensuring that the vehicle is initially set up to the correct specifications and then using industry recognised wheel alignment equipment record the readings obtained from the vehicle and compare them against the vehicle manufacturer data. The technician will also be required to reset the vehicle's wheel alignment to the vehicle manufacturer specification.	

Technician Profile	
The technician should be working in the accident repair sector of the industry. The technician will need prior knowledge, skills and abilities to enable them to meet the criteria set out within this module.	

Links with Accreditation Routes and Modules	
This module features in:	
IMI Accreditation Route	**IMI Accreditation Level**
MET	Senior Technician

Skills Requirements	
The technician must demonstrate their skills and ability to:	
1.1	use appropriate Personal Protective Equipment (PPE)
1.2	use appropriate Vehicle Protection Equipment (VPE)
1.3	consult and use approved researched repair methods and manufacturer's technical data
1.4	make pre-checks on vehicle tyres, steering and suspension, ensuring correct pressures, weight loading and ride height
1.5	select and use a range of tools and equipment to carry out four wheel alignment
1.6	prepare a suitable flat level work area in order to carry out four wheel alignment
1.7	set up four wheel alignment equipment
1.8	check rear wheel alignment then front wheel alignment and record geometry readings
1.9	compare all readings obtained against those set by manufacturer's data / specification
1.10	record any deviation from manufacturer's specification
1.11	check associated systems for wear or damage
1.12	carry out adjustments in the correct sequence to ensure correct alignment
1.13	identify and record reasons for non-rectification of steering geometry
1.14	carry out final quality checks, tested fit, function, operation and alignment of components
1.15	clean and store all equipment and materials on completion of task
1.16	take appropriate care throughout the assessment
1.17	use safe working practices throughout the assessment
1.18	work within given time constraints

Knowledge Requirements	
The technician must know and understand:	
2.1	steering system types including rack and pinion, steering boxes
2.2	principles of wheel alignment including Ackerman principle
2.3	steering system components and their operation
2.4	power steering types: hydraulic, electro hydraulic, electric
2.5	wheel alignment: Steering Angle Inclination (SAI), King Pin Inclination (KPI), caster, camber, thrust line, toe in / out, wheel set back, wheelbase
2.6	procedures and techniques used to check and adjust wheel alignment
2.7	tools and equipment used to check and adjust wheel alignment / geometry
2.8	wheel alignment diagnostic procedures
2.9	safe working practices required for the task
2.10	EPA awareness and waste management

Accreditation Module Title	Remove and Refit Mechanical, Electrical and Trim (MET) Components

Module Code	AOM- 044

Practical Assessment Time	2.5 hours

On-line Knowledge Test	K- 044

IMI AOM Level	2

Module Overview
This module ensures the technician has the knowledge, skills and ability to remove and refit vehicle exterior and interior trim without damaging other components, vehicle bodywork or its systems. The technician will need to remove and refit items including bumper cover (and associated components), headlamps (halogen type) and a door handle including door card / trim). The technician will also be required to carry out alignment of components ensuring correct fit as per approved repair methods / manufacturer specification.

Technician Profile
This module is intended for technicians / senior technicians working without supervision whose role involves the removing and refitting of MET components. The technician should be working in the accident repair sector and must have at least two years' experience to ensure they are familiar with the skills, knowledge and techniques required to remove and refit MET components.

Links with Accreditation Routes and Modules	
This module features in:	
IMI Accreditation Route	**IMI Accreditation Level**
Cosmetic Repair	Senior Cosmetic Technician
MET	MET Technician
Panel	Panel Technician

Skills Requirements	
The technician must demonstrate their skills and ability to:	
1.1	use appropriate Personal Protective Equipment (PPE)
1.2	use appropriate Vehicle Protection Equipment (VPE)
1.3	correctly assess and check vehicle systems prior to assessment and ensure functionality
1.4	protect the vehicle prior to removing any MET components in order to prevent damage to the vehicle and / or systems during the assessment
1.5	consult, use and understand the vehicle manufacturer's and approved researched repair methods to enable the technician to carry out the removal and refit of MET components
1.6	raise and support a vehicle before removing MET components
1.7	assess and prepare the vehicle prior to removal of mechanical and electrical components (disconnected battery, fuses etc.)
1.8	select and use the correct range of tools and equipment including checking, carry out any calibration or actions required pre and post the task
1.9	disconnect vehicle headlamps (halogen type) without causing damage to the vehicle components and / or vehicle systems
1.10	store components in a safe suitable manner and in the designated storage area, using bags, containers and materials provided during the removal and refitting of MET components
1.11	remove and refit both front headlamps (halogen type) to the vehicle / manufacturer's specification
1.12	adjust component settings, including alignment of the headlamps aim, as per the vehicle manufacturer's legal requirements
1.13	remove vehicle interior trim, door membrane and card without causing damage to components and / or vehicle systems
1.14	remove and refit door release mechanism (interior / exterior) without causing damage to components and / or vehicle systems
1.15	check MET component clips, fittings and fixtures for serviceability and replace where necessary
1.16	refit the interior trim, door membrane, card and any electrical components without causing damage to components and / or vehicle systems
1.17	refit and adjust components to manufacturer's specification and torque settings
1.18	check the operation of door locks, fittings and handles to ensure they are working correctly after refitting
1.19	disconnect, remove and refit a front bumper cover without causing damage to vehicle components and / or vehicle systems
1.20	carry out final quality checks to the vehicle
1.21	clean and store all equipment and materials on completion of task
1.22	take appropriate care throughout the assessment
1.23	use safe working practices throughout the assessment
1.24	work within given time constraints

Knowledge Requirements	
The technician must know and understand:	
2.1	how to select and use technical information and approved researched repair methods
2.2	tools and equipment including their maintenance used in the removal, repair and refitting / replacing of vehicle MET components and how they are used to communicate with vehicle systems
2.3	MET component functions, operation and repair techniques used when removing and refitting of MET components
2.4	vehicle electrical systems and related components including vehicle safety (ADAS) systems, network communication and high voltage systems
2.5	legal requirements for headlight alignment
2.6	safe working practices required for the task
2.7	EPA awareness and waste management

Accreditation Module Title	High Voltage - Safe Working Practices

Module Code	AOM- 081

Practical Assessment Time	1 hour

On-line Knowledge Test	K- 081

IMI AOM Level	2

Module Overview
This module ensures the technician has the knowledge, skills and ability to make the vehicle safe through the removal of any high voltage safety devices (typically switch or plug) to allow the vehicle to be worked on to carry out maintenance and repair procedures. The technician will need to follow any procedures to ensure the high voltage has been isolated before others can work on the vehicle which may include the checking of voltages using the appropriate tools and equipment. Once the vehicle has been 'made safe', the technician will be required to return the vehicle to a fully operational condition, ready to be returned to the driver. The technician will also be required to ensure that they follow all appropriate health & safety procedures and wear the necessary Personal Protection Equipment during the assessment.

Technician Profile
The technician should be working in either the light vehicle or accident repair sector. The technician will need prior knowledge, skills and abilities to enable them to service, maintain and repair vehicles fitted with high voltage batteries / components such as 'hybrid' or pure electric vehicles as well as meet the criteria set out within this module.

Links with Accreditation Routes and Modules	
This module features in:	
IMI Accreditation Route	**IMI Accreditation Level**
MET	Senior Technician
Electric Vehicle	Technician

Skills Requirements	
The technician must demonstrate their skills and ability to:	
1.1	use appropriate Personal Protective Equipment (PPE)
1.2	use appropriate Vehicle Protection Equipment (VPE)
1.3	consult, understand and use approved researched repair methods, manufacturer's technical data
1.4	Select correct tools and equipment to carry out activities on vehicle
1.5	identify high voltage cabling and components
1.6	identify AC and DC voltage symbols
1.7	identify vehicle high voltage status - pre / during / post service and repair activities
1.8	follow procedures before removing / disarming HV safety device
1.9	remove the ignition key and store securely whilst working in engine compartment- technician has control of vehicle at all times during assessment
1.10	measure any voltages to identify the vehicle is in a safe condition to carry out any other service / repair work
1.11	identify how to connect an additional power source to a high voltage vehicle e.g. to jump start
1.12	advise others when vehicle is in 'safe condition' to carryout maintenance and / or repair procedures
1.13	competently and safely use of test equipment- including multi-meter / equipment to measure AC and DC voltages
1.14	reset vehicle systems post repair to ensure vehicle is in condition to handover to customer
1.15	complete all the necessary records with accuracy in the format required
1.16	clean and store all equipment and materials on completion of task
1.17	take appropriate care throughout the assessment
1.18	use safe working practices throughout the assessment
1.19	work within given time constraints

Knowledge Requirements	
The technician must know and understand:	
2.1	necessary Personal Protection Equipment (PPE) required when working on hybrid / electric vehicles
2.2	various high voltage components and their function within hybrid / electric vehicle
2.3	necessary safety procedures in the event of incidents involving hybrid / electric vehicles
2.4	tools and equipment (including specifications) used when working on hybrid / electric vehicle
2.5	procedures used to make a vehicle 'safe' before carrying out maintenance and repair procedures
2.6	safe working practices required for the task

Accreditation Module Title	Remove and Refit a Front Door Control Module

Module Code	AOM- 194

Practical Assessment Time	1.5 hours

IMI AOM Level	3

Module Overview	

This module ensures the technician has the ability to carry out the removal, refitting, re-programming and configuring of a door control module.

The technician will be required to follow approved researched repair methods and / or manufacturer's technical data during the assessment process using the correct tools and equipment.

The technician will need to remove and refit any vehicle trim, both interior and exterior including door trim (cards), handles and door membranes as per technical information.

The technician will need to advise if any of the components removed need to be replaced during the repair procedures.

The technician will ensure that by the end of the assessment the vehicle system(s) are operating as required and all advanced safety features are correctly configured to set parameters.

Technician Profile	

The master technician should be working in the accident repair sector of the automotive industry and must have experience to ensure they are familiar with the skills, knowledge and techniques required to remove and refit door control module systems to manufacturer's specification.

Links with Accreditation Routes and Modules	
This module features in:	
IMI Accreditation Route	**IMI Accreditation Level**
MET	Senior Technician
Autoglazing	Master Technician

Skills Requirements	
The technician must demonstrate their skills and ability to:	
1.1	consult and use approved researched repair methods and manufacturer's technical data
1.2	correctly select and use appropriate PPE and VPE
1.3	select and use appropriate tools and equipment to remove and refit a front door control module
1.4	complete a pre-inspection of the vehicle, identifying all front door control module related systems and their operation
1.5	ensure vehicle electrical systems are isolated at all times when not required (i.e. controlling battery power and key management)
1.6	correctly prepare a vehicle by removing all necessary MET components
1.7	remove and refit a front door control module using approved researched repair methods and manufacturer's technical data
1.8	correctly re-program and configure a front door control module and test window functions
1.9	refit all removed MET components
1.10	carry out suitable checks to ensure all components are fitted and working correctly
1.11	record pre and post repair information using a quality inspection sheet
1.12	take appropriate care throughout the assessment
1.13	use safe working practices throughout the assessment
1.14	correctly clean and store all equipment and materials on completion of task
1.15	work within given time constraints

Knowledge Requirements	
The technician must know and understand:	
2.1	information used in the removal and refitting of a front door control module
2.2	tools, equipment, correct use of products, including their maintenance, used when removing and refitting front door control modules
2.3	mechanical, electrical and trim (MET) techniques / methods used in the removal and refitting of door components
2.4	vehicle electrical systems and related components including advanced vehicle safety systems
2.5	diagnostic equipment to allow programming and configuring of electric window functions
2.6	hybrid and electric vehicle technology
2.7	safe working practices required for the task
2.8	EPA awareness and waste management