Roadside

Overview

ATA Roadside

What is ATA?	

ATA is recognition of the current competence of professionals working in the Retail Motor Industry and their commitment to an ethical Code of Conduct.

It is governed by the Institute of the Motor Industry (IMI), the professional association and Sector Skills Council for the Retail Motor Industry.

The route content and structures are constantly reviewed to ensure that they remain current and support skills needs in the sector.

In order to achieve ATA accreditation, the individual is required to pass a series of practical skills and knowledge modules at an approved ATA centre. They must agree to and abide by the ATA Code of Conduct. To maintain their accreditation and prove current competence, the individual is reassessed every three years.

ATA is available for the following routes:	

- Air Conditioning
- Autoglazing
- Cosmetic Repair
- Customer Service
- Digital Audio Broadcasting
- Electric Vehicle
- Fast Fit
- Light Vehicle Maintenance & Repair
- Light Vehicle Inspection
- Mechanical Electrical Trim
- Motorcycle
- Paint
- Panel
- Parts
- Roadside
- Sales
- Vehicle Damage Assessor

Once an individual has passed all of the required Assessed Outcome Modules (AOMs) within a given route, they will receive an ATA ID Card (photo identity card) which is valid for three years.

Benefits for individuals and employers	

- ATA provides reassurance that the skills and knowledge of the accredited individual have been assessed against the industry agreed standard.
- ATA standards are regularly reviewed to align to current technology, methodology and legislation.
- ATA accredited individuals agree to the Code of Conduct – in doing so, they commit to working ethically in our industry.
- ATA provides a national 'skills benchmark' that can be used for training and recruitment purposes. It is a recognised development path for individuals and employers alike.
- ATA provides a fair but rigorous assessment. Quality Assurance and consistency in the assessment process are guaranteed using a nationally recognised Awarding Organisation.

Industry Recognition	

ATA accredited individuals will be recognised on a public-facing register.

From April 2013, all industry professionals holding a valid ATA ID Card will automatically be included on the IMI's Professional Register.

To find out more visit:

http://imiregister.org.uk/

How does an individual arrange to be assessed?	

An individual will need to contact an assessment centre approved to deliver ATA. These can be found on the Awarding Organisation's website:

http://www.imiawards.org.uk

Each centre will provide information regarding their availability to deliver the assessments, as well as the process and cost involved.

Further information	

For further information on any of the ATA routes, please visit:

http://ata.theimi.org.uk

Alternatively, call 01992 511521 to contact the IMI directly.

Who is the ATA Roadside route for?	

The ATA Roadside route is intended for technicians whose job role involves the assistance, recovery and repair of light vehicles at the roadside.

There are four levels within ATA Roadside:

- **Tyre Technician**
  The technician should be working in the tyre/recovery sector of the industry, attending vehicles that require assistance roadside. They should ideally have at least three months experience and have had relevant training to ensure they are competent with the skills, knowledge and techniques required to attend vehicles situated at the roadside

- **Assistance / Recovery Technician**
  The technician should be working in the roadside assistance/recovery sector of the industry, attending vehicles that require assistance at the side of the road. They should ideally have at least three months experience and have had relevant training to ensure they are competent with the skills, knowledge and techniques required to attend vehicles situated at the roadside.

- **Diagnostic Technician**
  The technician 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. They should also be competent with the skills, knowledge and techniques required to attend vehicles situated at the roadside.

- **Master Technician**
  The technician 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, rectify the faults including replacing components, liaise with customers at all levels and be able to transfer their technical knowledge to others such as apprentices & technicians. They should also be competent with the skills, knowledge and techniques required to attend vehicles situated at the roadside.

ATA Roadside Route Structure	

Those wishing to achieve ATA accreditation will be required to use the following method:

- **Full Assessment**

For those wishing to retain their accreditation i.e. those who hold a valid ATA card in that route there are two options, these are:

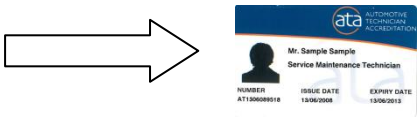
- **Full Assessment**
  or
- **AOM Update**

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

Tyre Technician	Full Assessment

This level requires the technician to complete the following modules:

Tyres	AOM 145
Hazard Awareness – Tyre	AOM 156

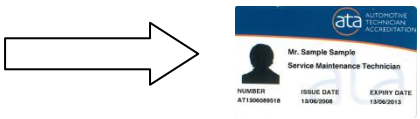


This will normally be a half day assessment.

Assistance / Recovery Technician	Full Assessment

This level requires the technician to complete the following module:

Hazard Awareness – Assistance / Recovery	AOM 155

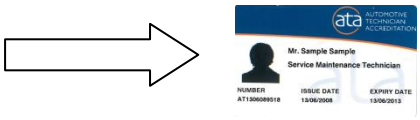


This will normally be a half day assessment.

Diagnostic Technician	Full Assessment

This level requires the technician to complete the following modules:

Vehicle Appraisal	AOM 151
Hazard Awareness – Assistance / Recovery	AOM 155
Engine Mechanical Systems Diagnosis	AOM 157
Electrical System Diagnosis	AOM 158
Computer Based Test Equipment Diagnosis	AOM 159

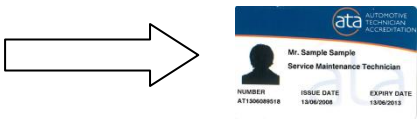


This will normally be a one-day assessment.

Master Technician	Full Assessment

This level requires the technician to complete the following modules:

Electrical Systems	AOM 160
Computer Based Test Equipment	AOM 161
Instructional Support	AOM 162



This will normally be a one-day assessment.

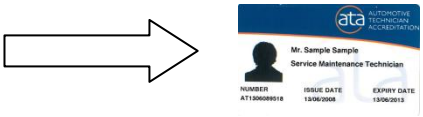
Candidates wishing to accredit as an ATA Roadside Master Technician are required to hold a valid ATA Roadside Diagnostic Technician card during the ATA Roadside Master Technician assessment process.

The ‘hazard awareness – assistance / recovery (AOM 155)’ module must continue to be valid at all times.

Tyre Technician	**AOM Update** **Reaccreditation only**

This level requires the technician to complete the following module:

Tyre - Theory	AOM 154

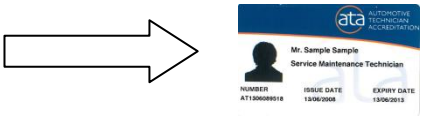


This will be achieved by the successful completion of an on-line knowledge test.

Assistance / Recovery Technician	**AOM Update** **Reaccreditation only**

This level requires the technician to complete the following module:

Assistance / Recovery - Theory	AOM 169

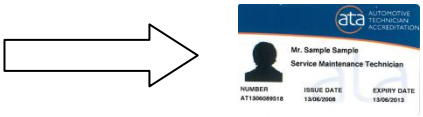


This will be achieved by the successful completion of an on-line knowledge test.

Diagnostic Technician	**AOM Update** **Reaccreditation only**

This level requires the technician to complete the following modules:

Electrical System Diagnosis	AOM 158
Computer Based Test Equipment Diagnosis	AOM 159
Assistance / Recovery - Theory	AOM 169



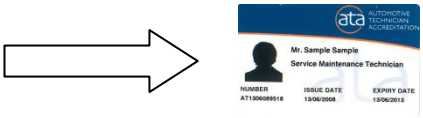
This may either be achieved through a one-day assessment or may be spread over the duration of the individual's existing ATA accreditation.

The 'assistance / recovery' (AOM169) module must continue to be valid at all times.

Master Technician	**AOM Update** **Reaccreditation only**

This level requires the technician to complete the following modules:

Electrical Systems	AOM 160
Computer Based Test Equipment	AOM 161
Assistance / Recovery - Theory	AOM 169



This may either be achieved through a one-day assessment or may be spread over the duration of the individual's existing ATA accreditation.

The 'assistance / recovery' (AOM169) module must continue to be valid at all times.

Accreditation Module Title	Tyres
Module Code	ATA - AOM - 145
Version	01-04-2014 Issue 1.1
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 145
IMI AOM level	2

Module Overview
This module is to assess the candidate's knowledge, skill and ability to inspect, remove, repair and replace wheels / tyres to the appropriate industry standards, ensuring that they comply with legal requirements. The candidate will need to access vehicle information applicable to the task of tyre repair and replacement, such as any legal and manufacturer (vehicle and component) requirements using industry recognised equipment, such as tyre changing and wheel balancing equipment.

Candidate Profile
The technician should be working in the light vehicle sector of the industry and ideally have at least three months experience to ensure they are familiar with the skills, knowledge and techniques required to inspect, remove, repair and replace the vehicles components to industry standards.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Fast Fit	Technician
	Service Technician
Roadside	Tyre Technician

Skills Requirements	
The candidate must demonstrate the ability to:	
1.1	Accurately use a tyre tread depth gauge
1.2	Correctly inspect tyres fitted to vehicle
1.3	Raise, support and lower the vehicle correctly
1.4	Remove punctured tyre / wheel from vehicle correctly
1.5	Locate a puncture correctly using appropriate means
1.6	Correctly remove tyre from wheel rim
1.7	Remove and refit valve from / to wheel correctly
1.8	Inspect tyre / wheel / associated components for damage / corrosion
1.9	Repair puncture to BS 159 requirements
1.10	Refit tyre to wheel correctly
1.11	Access correct information for the applicable vehicle
1.12	Inflate tyre correctly to recommended pressure
1.13	Ensure wheel and tyre dynamically balanced correctly
1.14	Carry out correct fitment of wheel balance weights to type of wheel rim / tyre
1.15	Inspect vehicle components during the wheel removal for wear / damage (inc fixings / steering / suspension / brakes)
1.16	Carry out refitting of wheel to vehicle correctly
1.17	Use a torque wrench correctly to tighten wheel bolts / nuts
1.18	Carry out removal / re-fitment of run flat tyre competently
1.19	Correctly present the vehicle after work is completed
1.20	Use hand tools and equipment correctly to carry out tyre / wheel activities
1.21	Complete task within a given time period

Knowledge Requirements	
The candidate must indicate a sound knowledge of:	
2.1	Different types of gas used to inflate tyres
2.2	Tyre and wheel rim construction and markings
2.3	Fitment of asymmetric / directional / multi-compound tyres
2.4	Tyre pressure sensor systems – including identification and any reset procedures required for vehicle

Accreditation Module Title	Vehicle Appraisal
Module Code	ATA - AOM - 151
Version	01-04-2014 Issue 1.0
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 151
IMI AOM level	2

Module Overview
This module is to ensure that the candidate has the ability to carry out a vehicle appraisal using a logical method / routine and the appropriate tools and equipment. The candidate will be able to identify the processes / techniques needed to rectify faults and recommend any actions required for repair.

Candidate Profile
The technician should be working in the light vehicle sector of the industry and ideally have at least three months experience to ensure they are familiar with the skills, knowledge and techniques required to inspect, remove, repair and replace vehicle components to industry standards.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Roadside	Diagnostic Technician

Skills Requirements	
The candidate must demonstrate the ability to:	
1.1	Accurately identify and record vehicle details using a vehicle check sheet
1.2	Identify the vehicle condition as per check sheet accurately
1.3	Record all of the vehicle damage accurately
1.4	Identify, replace, advise, report the findings of the vehicle to another person
1.5	Correctly use PPE during assessment
1.6	Comply with all health and safety requirements throughout assessment
1.7	Perform the vehicle appraisal assessment within a given time period

Knowledge Requirements	
The candidate must indicate a sound knowledge of:	
2.1	Driver ‘Tell Tale’ warning lamps and recognition of the urgency of any rectification work
2.2	Vehicle faults including ‘symptom, effect & cause’

Accreditation Module Title	Tyre - Theory
Module Code	ATA - AOM - 154
Version	01-04-2014 Issue 1.0
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 154
IMI AOM level	2

Module Overview
This module is to ensure that the candidate has the knowledge of attending a vehicle breakdown, use of the appropriate tools and equipment and how to keep them and the vehicle occupant's safe at all times. The candidate will be able to identify the processes and techniques needed to replace wheels / tyres at the side of the road. ***This module is a 40 question knowledge only assessment.***

Candidate Profile
The technician should be working in the roadside recovery / assistance sector of the industry, attending vehicles needing assistance at the side of the road with tyre related faults. They should ideally have had relevant training to ensure they are competent with the skills, knowledge and techniques required to attend vehicles situated at the roadside.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Roadside	Tyre Technician

Knowledge Requirements	
The candidate must indicate a sound knowledge of:	
2.1	Assessing and securing the site
2.2	The circumstances in which to call for specialist assistance
2.3	Taking steps to secure the safety of themselves and others
2.4	Communicating with customers and relevant authorities
2.5	How to make an initial assessment of the extent of vehicle damage and or faults including dynamic risk assessment
2.6	Legal and organisational requirements and procedures
2.7	Understanding the importance of wearing personal protective equipment
2.8	Completing records and the importance of doing so

Accreditation Module Title	Hazard Awareness – Assistance / Recovery
Module Code	ATA - AOM - 155
Version	01-04-2014 Issue 1.0
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 155
IMI AOM level	2

Module Overview
This module is to ensure that the candidate has the ability to attend a vehicle breakdown, carry out a dynamic risk assessment, use the appropriate tools and equipment together with the skills and knowledge to keep themselves and the vehicle occupant's safe at all times. The candidate will be able to identify the processes and techniques needed to recover the casualty vehicle and recommend any actions required to enable a safe vehicle recovery.

Candidate Profile
The technician should be working in the roadside recovery / assistance sector of the industry, attending vehicles that require assistance at the side of the road. They should ideally have at least three months experience or have had relevant training to ensure they are competent with the skills, knowledge and techniques required to attend vehicles situated at the roadside.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Roadside	Assistance / Recovery Technician
	Diagnostic Technician

Skills Requirements	
The candidate must demonstrate the ability to:	
1.1	Secure and protect the incident site to comply with legal requirements, current industry codes of practice, prevailing weather conditions and the roadside situation
1.2	Effectively secure the immediate safety of the driver and passengers
1.3	Carry out a dynamic risk assessment
1.4	Ensure the initial assessment of the incident accurately identifies the existence of any hazards and potential risks
1.5	Ensure the initial assessment of the incident accurately identifies the need for any specialist assistance
1.6	Provide accurate information on the roadside situation promptly and clearly to all relevant authorities and organisations
1.7	Seek assistance and guidance promptly from the relevant authorities when hazardous substances are present
1.8	Ensure the initial assessment establishes the nature and extent of any vehicle damage and/or breakdown and the feasibility of roadside repair (wherever applicable)
1.9	Make justifiable decisions for a course of action based upon the information gained from the initial assessment
1.10	Ensure all records are accurate, complete and passed to the relevant person(s) promptly
1.11	Select and wear suitable personal protective equipment throughout all roadside assessment and security activities

Knowledge Requirements	
The candidate must indicate a sound knowledge of:	
2.1	Assessing and securing the site
2.2	The circumstances in which to call for specialist assistance
2.3	Taking steps to secure the safety of themselves and others
2.4	Communicating with customers and relevant authorities
2.5	How to make an initial assessment of the extent of vehicle damage and or faults including dynamic risk assessment
2.6	Legal and organisational requirements and procedures
2.7	Understanding the importance of wearing personal protective equipment
2.8	Completing records and the importance of doing so

Accreditation Module Title	Hazard Awareness – Tyre
Module Code	ATA - AOM - 156
Version	01-04-2014 Issue 1.0
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 156
IMI AOM level	2

Module Overview
This module is to ensure that the candidate has the ability to attend a vehicle breakdown, using the appropriate tools and equipment together with the skills and knowledge to keep themselves and the vehicle occupant's safe at all times. The candidate will be able to identify the processes and techniques needed to replace wheels/tyres at the side of the road.

Candidate Profile
The technician should be working in the roadside recovery / assistance sector of the industry, attending vehicles that require assistance at the side of the road with tyre related faults. They should ideally have at least three months experience or have had relevant training to ensure they are competent with the skills, knowledge and techniques required to attend vehicles situated at the roadside.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Roadside	Tyre Technician

Skills Requirements	
The candidate must demonstrate the ability to:	
1.1	Secure and protect the incident site to comply with legal requirements, current industry codes of practice, prevailing weather conditions and the roadside situation
1.2	Effectively secure the immediate safety of the driver and passengers
1.3	Carry out a dynamic risk assessment
1.4	Ensure the initial assessment of the incident accurately identifies the existence of any hazards and potential risks
1.5	Ensure the initial assessment of the incident accurately identifies the need for any specialist assistance
1.6	Provide accurate information on the roadside situation promptly and clearly to all relevant authorities and organisations
1.7	Seek assistance and guidance promptly from the relevant authorities when hazardous substances are present
1.8	Ensure the initial assessment establishes the nature and extent of any vehicle damage and/or breakdown and the feasibility of roadside repair (wherever applicable)
1.9	Make justifiable decisions for a course of action based upon the information gained from the initial assessment
1.10	Ensure all records are accurate and complete and passed to the relevant person(s) promptly
1.11	Select & wear suitable personal protective equipment throughout all roadside assessment and security activities

Knowledge Requirements	
The candidate must indicate a sound knowledge of :	
2.1	Assessing and securing the site
2.2	The circumstances in which to call for specialist assistance
2.3	Taking steps to secure the safety of themselves and others
2.4	Communicating with customers and relevant authorities
2.5	How to make an initial assessment of the extent of vehicle damage and or faults including dynamic risk assessment
2.6	Legal and organisational requirements and procedures
2.7	Understanding the importance of wearing personal protective equipment
2.8	Completing records and the importance of doing so

Accreditation Module Title	Engine Mechanical Systems Diagnosis
Module Code	ATA - AOM - 157
Version	01-04-2014 Issue 1.0
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 157
IMI AOM level	3

Module Overview
This module is to determine that the candidate is able to diagnose mechanical component failure(s) using their skills with the use of industry tools & equipment and the applicable vehicle component information. The candidate will be able to use the measurement results obtained, compare against the vehicle specification and be able to determine the cause of the component failure. The candidate will be required to ensure that they follow all appropriate health & safety procedures and wear the necessary Personal Protection Equipment during the assessment.

Candidate Profile
The diagnostic technician 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.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Roadside	Diagnostic Technician

Skills Requirements	
The candidate must demonstrate the ability to:	
1.1	Select the correct information for a specific vehicle and the ability to understand the workshop vehicle information
1.2	Carry out the appropriate mechanical system check(s) to be able to diagnose a mechanical fault (examples: head gasket, coolant loss)
1.3	Compare the actual reading obtained from a vehicle component with vehicle manufacturer specification to determine whether a component would give a vehicle fault as per a description (diagnose component(s) fault)
1.4	Accurately define whether a system/component is within or outside of tolerances (faulty)
1.5	Diagnose the exact cause of a vehicle mechanical system fault from the measurements taken and the information provided
1.6	Select and use appropriate PPE during assessment
1.7	Comply with all health and safety requirements relative to assessment
1.8	Carry out the mechanical diagnosis within a given time period

Knowledge Requirements	
The candidate must indicate a sound knowledge of:	
2.1	Engine (petrol) component(s) and operation
2.2	Engine (diesel) component(s) and operation
2.3	Driveline mechanical component(s) and operation
2.4	Chassis mechanical component(s) and operation
2.5	Procedures and techniques used to measure/check/diagnose mechanical components
2.6	Tools and equipment used to measure/check/diagnose mechanical components
2.7	Mechanical component diagnostic procedures
2.8	Health and Safety procedures

Accreditation Module Title	Electrical System Diagnosis
Module Code	ATA - AOM - 158
Version	01-04-2014 Issue 1.0
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 158
IMI AOM level	3

Module Overview
This module is to assess the candidate's knowledge, skill and ability to diagnose a complex electrical fault, typically an open circuit, high resistance or a short circuit. The candidate will need to access vehicle information such as component location and the appropriate electrical wiring diagrams and use these together with electrical test equipment such as multi-meter (volts, amps, ohms) to diagnose the system fault. The technician will also need to have knowledge and understanding of network communication systems e.g. CAN. Once the electrical fault has been diagnosed, the candidate should have the ability to rectify and then check the system is functioning as per the vehicle manufacturer's original specification.

Candidate Profile
The diagnostic technician 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.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Roadside	Diagnostic Technician

Skills Requirements	
The candidate must demonstrate the ability to:	
1.1	Diagnose a vehicle electrical fault accurately and competently
1.2	Correctly use electrical test equipment suitable for a motor vehicle including multi-meter, current clamp, battery tester and be able to test the vehicles electrical system with such equipment
1.3	Test the vehicles electrical system with appropriate electrical test equipment
1.4	Access the correct wiring diagram/information for the vehicle's electrical system(s) in order to carry out a vehicle diagnosis
1.5	Correctly apply a wiring diagram/information to the vehicle during the diagnosis of the vehicles electrical fault
1.6	Correctly diagnose electrical circuit faults using at least two methods of electrical fault finding to locate a high resistance, parasitic drain or short circuit
1.7	Use a vehicle wiring diagram correctly and competently during the diagnosis and repair of an electrical fault
1.8	Determine a logical / predetermined path to be able to diagnose / rectify a vehicles electrical fault
1.9	Select and use appropriate PPE during assessment
1.10	Comply with all health and safety requirements relative to assessment
1.11	Diagnose the vehicles electrical fault within a given time period

Knowledge Requirements	
The candidate must indicate a sound knowledge of:	
2.1	The correct practices when working on Hybrid – Electric Vehicle (EV) including safe working
2.2	Electrical values i.e. Ohms, Amps, Volts
2.3	Engine starting and charging systems
2.4	Oscilloscope and its usage in the diagnosis of vehicle electrical systems
2.5	Network communication systems within a motor vehicle (i.e. CAN)
2.6	The correct repair procedures of wiring harnesses / connectors

Accreditation Module Title	Computer Based Test Equipment Diagnosis
Module Code	ATA - AOM - 159
Version	01-04-2014 Issue 1.0
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 159
IMI AOM level	3

Module Overview
This module is to determine that the candidate is able to use computer based test equipment, such as fault code readers / scan tools, to diagnose vehicle system faults, typically those associated with Engine Management. The technician will be able to access the various vehicle systems, retrieve vehicle diagnostic information (e.g. fault codes / live data) and follow the prescribed method to diagnose the fault. The candidate will be able to use the applicable vehicle information to locate components to carry out the necessary checks to determine the functionality of the component, the integrity of the wiring and associated components to allow the technician to accurately diagnose the vehicle fault. The candidate will be required to ensure that they follow all appropriate health & safety procedures and wear the necessary Personal Protection Equipment during the assessment.

Candidate Profile
The diagnostic technician 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.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Roadside	Diagnostic Technician

Skills Requirements	
The candidate must demonstrate the ability to:	
1.1	Use fault code reader / scan tool / diagnostic test equipment correctly and competently
1.2	Correctly plug the equipment into the vehicles system
1.3	Determine that the test equipment has correctly communicated with the vehicle system(s)
1.4	Access the diagnosis information (fault codes) stored within the vehicles system(s)
1.5	Demonstrate the correct knowledge and understanding of system components and their functionality within the vehicle system(s)
1.6	Accurately carry out a visual inspection and conduct system component tests with diagnostic equipment on the vehicle
1.7	Accurately diagnose vehicle system fault(s) using prescribed procedures which are driven from fault code(s) accessed from the vehicles system(s)
1.8	Correctly use other electrical test equipment (such as a multi-meter) to be able to test the vehicles electrical system when carrying out prescribed diagnosis procedures
1.9	Correctly erase vehicle system fault codes and check the vehicle systems are functioning correctly
1.10	Select and use appropriate PPE during assessment
1.11	Comply with all health and safety requirements relative to assessment
1.12	Carry out system checks / diagnosis with scan tool / diagnostic test equipment within a given time period

Knowledge Requirements	
The candidate must indicate a sound knowledge of:	
2.1	Diagnosing diesel fuel system(s) and the associated components
2.2	Diagnosing petrol fuel system(s) and the associated components
2.3	Updating test equipment with appropriate software
2.4	Network communication system (CAN) and the associated components

Accreditation Module Title	Electrical Systems
Module Code	ATA - AOM - 160
Version	01-04-2014 Issue 1.0
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 160
IMI AOM level	4

Module Overview
This module is to assess the candidate's knowledge, skill and ability to diagnose a complex driveline fault (i.e. engine management / transmission) that is integrated within a vehicle network system. The candidate will need to access vehicle information, such as component location and the appropriate vehicle electrical wiring diagrams, and use these together with electrical test equipment such as multi-meter / scan tools to diagnose the system fault. This will include analysing the vehicle data as the self diagnosis information available will not guide the candidate to the fault through prescribed procedures. The candidate must have knowledge and understanding of network communication systems such as CAN, LIN, MOST & Fibre Optics. Once the electrical fault has been diagnosed, the candidate should have the ability to rectify and then check the system is functioning as per the vehicle manufacturer's original specification.

Candidate Profile
The master technician 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, rectify the faults including replacing components and return the vehicle systems to manufacturer specification. They will also require the skills and ability to effectively communicate with internal staff (at all levels), customers and industry organisations to transfer both technical and non technical information.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Roadside	Master Technician

Skills Requirements	
The candidate must demonstrate the ability to:	
1.1	Accurately diagnose a vehicle electrical fault(s) accurately when the vehicle electrical system is integrated within a vehicle network communication system(s)
1.2	Correctly use electrical test equipment (such as a multi-meter) to be able to test the vehicles electrical system
1.3	Read and understand diagnosis information including fault code(s) stored and live data held within the vehicles system(s)
1.4	Collate evidence to be able to determine the correct vehicle diagnosis procedure for the vehicle fault
1.5	Access the correct wiring diagram for the vehicle's electrical system(s)
1.6	Demonstrate the accurate application of the wiring diagram to the vehicle during the diagnosis of the vehicles fault
1.7	Accurately diagnose electrical circuit faults using at least three methods of electrical fault finding to locate either a high resistance, high current or short circuit
1.8	Correctly use a vehicle wiring diagram during the stages of diagnosis and repair of the electrical fault
1.9	Determine a logical path to be able to diagnose/rectify a vehicles electrical fault
1.10	Select and use appropriate PPE during assessment
1.11	Comply with all health and safety requirements relative to assessment
1.12	Diagnose a vehicle electrical fault accurately without using a predetermined diagnosis procedure
1.13	Rectify an electrical fault within a given time period

Knowledge Requirements	
The candidate must indicate a sound knowledge of:	
2.1	Diagnosing diesel fuel system(s) and the associated components
2.2	Diagnosing petrol fuel system(s) and the associated components
2.3	The correct practices when working on Hybrid – Electric Vehicles (EV) including safe working
2.4	How vehicle electrical systems link and integrate with vehicle communication networks
2.5	Electrical values i.e. Ohms, Amps, Volts
2.6	Oscilloscope and its usage in the diagnosis of vehicle electrical systems

Accreditation Module Title	Computer Based Test Equipment
Module Code	ATA - AOM - 161
Version	01-04-2014 Issue 1.0
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 161
IMI AOM level	4

Module Overview
This module is to assess the candidate's knowledge, skill and ability to maintain diagnostic equipment and update both equipment and vehicle systems. The technician will need to use a scan tool / vehicle with current software to allow the vehicle to be configured to the drivers / customer's requirements. It will be necessary for the candidate to check the system(s) is functioning as per the vehicle manufacturer's original specification and to the customer's requirements.

Candidate Profile
The master technician 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, rectify the faults including replacing components and return the vehicle systems to manufacturer specification. They will also require the skills and ability to effectively communicate with internal staff (at all levels), customers and industry organisations to transfer both technical and non technical information.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Roadside	Master Technician

Skills Requirements	
The candidate must demonstrate the ability to:	
1.1	Correctly use a scan tool / diagnostic test equipment competently
1.2	Connect the equipment into the vehicles system using the correct process
1.3	Communicate with the vehicle system(s) using suitable vehicle test equipment
1.4	Correctly configure/reconfigure/recode vehicle system(s) component(s), replacement of battery and carryout further checks to ensure that the revisions operate the appropriate systems correctly
1.5	Select and use appropriate PPE during assessment
1.6	Comply with all health and safety requirements relative to assessment
1.7	Carry out system functional checks with scan tool / diagnostic test equipment accurately to meet customer requirements within a given time period

Knowledge Requirements	
The candidate must indicate a sound knowledge of:	
2.1	Updating software to scan tool / diagnostic test equipment from software downloads from a remote source
2.2	Updating vehicle control units with software held in scan tool / diagnostic test equipment
2.3	Checking vehicle systems functionality after updating the system software
2.4	Network communication system (CAN) and the integration with other vehicle systems

Accreditation Module Title	Instructional Support
Module Code	ATA - AOM - 162
Version	01-04-2014 Issue 1.0
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 162
IMI AOM level	4

Module Overview
This module is to ensure that the candidate has the ability to train / mentor others (apprentices / technicians) in the workplace. This will require the candidate to have a good knowledge of the subject, be able to simplify the subject matter and transfer their knowledge to another person. The candidate will be required to carry out a practical demonstration during the assessment. During the assessment the candidate will be required to demonstrate their ability to use training aids and their relevance in the transfer of information. The candidate will need to demonstrate that the information has been transferred to the trainee. The candidate will be given sufficient time within the assessment to prepare for the instructional support task.

Candidate Profile
The master technician 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, rectify the faults including replacing components and return the vehicle systems to manufacturer specification. They will also require the skills and ability to effectively communicate with internal staff (at all levels), customers and industry organisations to transfer both technical and non technical information.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Roadside	Master Technician

Skills Requirements	
The candidate must demonstrate the ability to:	
1.1	Select the appropriate training aids to provide the means to allow the required knowledge to be imparted to the learner
1.2	Demonstrate the knowledge of subject throughout instructional support to be able to answer questions from the learner
1.3	Transfer knowledge to learner
1.4	Communicate subject through actions/verbal communication
1.5	Communicate subject with the use of instructional aids
1.6	Confirm that the learner has gained knowledge of subject / knowledge being transferred
1.7	Communicate clearly throughout the transfer of knowledge
1.8	Use language and terminology that the learner understands
1.9	Coach/mentor others
1.10	Select and use appropriate PPE during assessment for all parties
1.11	Comply with all health and safety requirements relative to assessment for all parties

Knowledge Requirements	
The candidate must indicate a sound knowledge of :	
2.1	The transfer of information to others
2.2	Use of the methods used to train / impart knowledge to others
2.3	Assessing the ability of others in the workplace
2.4	The use of training aids
2.5	Health and safety

Accreditation Module Title	Assistance / Recovery - Theory
Module Code	ATA - AOM - 169
Version	01-04-2014 Issue 1.0
Practical Assessment Time	0.75 hour
On-line Knowledge Test	K - 169
IMI AOM level	2

Module Overview
This module is to ensure that the candidate has the knowledge of recovery vehicle requirements, technician & casualty vehicle occupants, others working at the roadside, health & safety, legislation and any other additional information that is needed whilst a vehicle recovery is taking place. ***This module is a knowledge only assessment***

Candidate Profile
The technician should be working in the roadside recovery / assistance sector of the industry, attending vehicles needing assistance at the side of the road. They should ideally have had relevant training to ensure they are competent with the skills, knowledge and techniques required to attend vehicles situated at the roadside.

Links with ATA Routes and Modules	
This module features in:	
ATA Route	**ATA Level**
Roadside	Assistance / Recovery Technician

Knowledge Requirements	
The candidate must indicate a sound knowledge of:	
2.1	Assessing and securing the site
2.2	The circumstances in which to call for specialist assistance
2.3	Taking steps to secure the safety of themselves and others
2.4	Communicating with customers and relevant authorities
2.5	How to make an initial assessment of the extent of vehicle damage and or faults including dynamic risk assessment
2.6	Legal and organisational requirements and procedures
2.7	Understanding the importance of wearing personal protective equipment
2.8	Completing records and the importance of doing so