



Accreditation Module Title	Electrical Systems - Inspection
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Module Code	ATA - AOM - 072
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Practical Assessment Time	1.0 hour
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On-line Knowledge Test	K - 072
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IMI AOM Level	3
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<b>Module Overview</b>	
<p>This module is to assess the competence of the candidate's knowledge, skill and ability to check vehicle electrical systems and diagnose an electrical fault using a logical method.</p> <p>The candidate will need to access vehicle information such as component location and the appropriate electrical wiring diagrams, together with the use of electrical test equipment such as multi-meter and fault code / scan tools to diagnose the system fault. Once the electrical fault has been diagnosed, the candidate should have the ability to rectify the fault, reconfigure system components and erase fault codes to allow the candidate to check the system is functioning as per the vehicle manufacturer's original specification.</p>	

<b>Candidate Profile</b>	
<p>This module is intended for technicians working within maintenance and repair vehicle workshop. The technician must be able to work unsupervised – ideally, they should be in full time employment with at least 3 years experience to ensure they are familiar with the techniques for vehicle servicing, inspection and system(s) diagnosis.</p>	

<b>Links with Accreditation Routes and Modules</b>	
This module features in:	
<b>IMI Accreditation Route</b>	<b>IMI Accreditation Level</b>
Light Vehicle Inspection	Technician

Skills Requirements	
The candidate must demonstrate the ability to:	
1.1	Check all vehicle lighting - front / rear / side - including headlamps (halogen / xenon technology)
1.2	Accurately check the alignment of headlamps meets vehicle manufacturer settings
1.3	Check vehicle occupant safety systems (including SRS) meet vehicle manufacturer settings
1.4	Check vehicle instrument warning lamps and identify any immediate actions required to remedy fault(s)
1.5	Access fault codes from vehicle system(s) and interpret any information to be able to rectify a fault(s)
1.6	Accurately diagnose a vehicle electrical fault
1.7	Use electrical test equipment (such as a multi-meter) to accurately test the vehicle's electrical system
1.8	Access the appropriate wiring diagram for the vehicle's electrical system(s) under test
1.9	Correctly apply the wiring diagram to the vehicle during diagnosis of the vehicle's fault
1.10	Diagnose electrical circuit faults using at least two methods of electrical fault finding to locate an open circuit / high resistance fault
1.11	Use a logical path to accurately diagnose the vehicle's electrical fault
1.12	Use Personal Protection Equipment (PPE)
1.13	Follow health and safety guidelines
1.14	Work within given time constraints

Knowledge Requirements	
The candidate must indicate a sound knowledge of:	
2.1	Scan tool / diagnostic equipment
2.2	Electrical values i.e. Ohms, Amps, Volts
2.3	The correct practices when working on Hybrid - EV including safe working