Skills & Education Group Awards

Overview Document

VEHICLE TECHNICIAN ACCREDITATION ASSESSMENT

ACCREDITATION OVERVIEW

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Overview Document

The purpose of this document is to provide information which will enable training providers to guarantee that they have the correct resources to successfully deliver the Vehicle Technician Accredited Assessment. In addition to this, it is a useful point of reference when answering queries from prospective candidates that wish to complete the assessment.

The SEG Awards qualification code is U0008.

Introduction

The SEG Awards Vehicle Technician Accredited Assessment (VTAA) has been developed in collaboration with the Driver and Vehicle Standards Agency (DVSA).

Achievement of the VTAA enables motor vehicle technicians who do not hold a formal qualification and who have worked in their roles for four or more years to prove their capabilities at Level 3. Achievement enables a technician to meet the entry requirements to become an MOT Tester for class 3, 4, 5 or 7 vehicles. Gaining status as an MOT Tester will be subject to DVSA requirements. The DVSA can withdraw Tester Status if conditions are not met.

The VTAA is a lifetime achievement, which means that it will not expire, and holders will be considered professionally competent for the rest of their lives.
The VTAA is available to be delivered and assessed as a complete accreditation or as individual modules contributing to a full accreditation.

General Information:

Aims

The Vehicle Technician Accredited Assessment aims to:

- demonstrate technicians have the knowledge and skills expected of someone working at Level 3
- enable technicians without a Level 3 qualification to enroll on an MOT Tester qualification in order for them to become qualified to conduct MOTs
- demonstrate that a technician meets the Light Vehicle Motor Vehicle Level 3 National Occupational Standards.

Where a learner has not completed all of the required units as part of the VTAA course, learners/Training Providers cannot add separate unit accreditations from the VTAA Modular course in order to claim a VTAA certificate.

Target Group

The Vehicle Technician Accredited Assessment acts as an equivalent accreditation for Technicians who wish to gain the DVSA Certificate of Competence for MOT Testers but have no formal Level 3 Motor Vehicle qualification. All of the content within the assessments has been mapped to the Level 3 Light Vehicle National Occupational Standards.

Entry Requirements

There are no formal requirements for entry to the VTAA however, as the VTAA is an assessment of a motor vehicle technician's knowledge and skills it is expected that they have worked in their roles for four or more years to demonstrate capabilities at Level 3. Evidence to demonstrate four years' experience could be provided through items such as former wage slips/ technician declaration or CV. This list is not exhaustive. SEG Awards expects centres to recruit with integrity.

Progression Opportunities

The VTAA is a requirement for technicians without a Level 3 qualification who wish gain entry onto the SEG Awards MOT Tester Qualification

- Level 2 Award in MOT Testing (Classes 4 and 7) (601/8935/6)

Reasonable Adjustments

Adjustments to assessment arrangements are made on the basis of the individual needs of candidates. Technicians must be told that if they are planning to progress to the Level 2 Awards in MOT Testing then reasonable adjustments are restricted within those qualifications. Level 2 Awards in MOT Testing (Class 1 and 2) and Level 2 Awards in MOT Testing (Class 4 and 7) do allow readers or scribes for the invigilated assessment. As learners will need to access DVSA material during their normal testing activities, scribes or readers will be allowed during the invigilated qualification assessment

Resource Requirements

The assessment requires a Technician to complete practical tasks and online test(s). To provide the assessment, trainers and technicians will need to be able to access the following:

Online knowledge tests

- access to IT equipment with BTL secure client installed
- test environment that meets the requirements
- invigilators

Practical tasks

- well-lit workshop area
- vehicles, rigs, electric circuits appropriate to the task
- workshop tools and equipment
- PPE

SEG Awards Support Resources

These resources are available, from SEG Awards' secure on-line registration system (ORS), in a document entitled 'Vehicle Technician Accredited Assessment (VTAA) Practical Tasks Resources' and in the Appendix at the end of this document. The resources support the following practical tasks:

Module	Task ID	Task Title
Suspension, Steering Wheels and Tyres	Sus – 01	Tyre Wear
Electrical	Ele - 09	Oscilloscope Waveform ID
Emissions	Emi - 03	Emission Test Sample

Trainer Requirements

Training Providers must have trainers with sufficient knowledge and skills in the subject matter being delivered. Trainers must have achieved a Level 3 Motor Vehicle related qualification or any other equivalent accreditation.

Assessor Requirements

Assessors are responsible for the validity, reliability and authenticity of evidence. Assessors therefore need to have a thorough understanding of assessment and quality assurance processes, as well as having an in-depth technical competence relating to the VTAA practical skills.

Internal Quality Assurer (IQA) Requirements

The primary responsibility of the IQA is to assure the quality and consistency of assessments by the assessors for whom they are responsible. IQAs therefore need to have a thorough understanding of quality assurance and assessment practices, as well as technical competence related to the VTAA that they are internally quality assuring.

IQAs will be responsible for, and accountable for consistency, quality and reliability of evidence and assessors.
It will be the responsibility of the approved centre to select and appoint IQAs.

To be an approved IQA, the person must:

- have in-depth knowledge of the VTAA requirements
- be occupationally aware of the Motor Vehicle sector
- be approved by SEG Awards to carry out internal quality assurance for the SEG Awards Vehicle Technician Accredited Assessment
- demonstrate knowledge and understanding of the quality assurance processes required by the centre and SEG Awards

Approval of IQAs can be removed. IQAs cannot verify the VTAA if they are not approved by SEG Awards, or have had their approval removed.
Centres must use the assessments set by SEG Awards.

Assessment Structure and Content

Structure

- (U0008 Vehicle Technician Accredited Assessment)

Area	Complete Assessment U0008 VTAA	
	Practical Assessments	**Online Test**
Brakes	4 tasks	50 MCQs*
Suspension	4 tasks	
Steering, Wheels & Tyres		
Emissions	4 tasks	
Electrics	4 tasks	

*MCQs = Multiple Choice Questions

Overview of the Assessments

The purpose of the assessments is to determine whether a technician has the required level of practical skills and knowledge which is needed in order to meet the pre-requisites for MOT Testing.
To complete the VTAA, technicians will need to complete practical assessments in each of the following areas:

- brakes
- suspension, steering, wheels and tyres
- emissions
- electrics

In total, a technician will complete 4 practical tasks for each area. Each practical task will take 10 minutes to complete and has its own resource documents which include:

- guidance and instruction for setting the task up
- a marking sheet to be completed and submitted to SEG Awards when all the practical assessments have been completed.

Technicians must also complete an online knowledge assessment consisting of 10 questions for **each** of the following areas:

- brakes
- suspension
- steering, Wheels and Tyres
- emissions
- electrics

The online test presents multiple choice questions for each area and there are 50 questions in total. The duration of the test is 75 minutes and technicians must score 60% overall.

Practical Tasks

Within each module, the practical tasks have been grouped into 4 sub-groups. The technician **must** successfully complete 1 task from each sub-group. Details of the subgroups are given on the next page.

Technicians must meet all of the requirements set in each task to pass the assessment. Each task has 2 resource documents. The first document is for the trainer and provides guidance and instructions on how to set up the task. The second document is for the technician and explains what they need to do for each task. The technician will use this document to record their responses to the task.

Sub-Group	Suspension, Steering, Wheels & Tyres Technician must complete 1 task from each sub-group, totally 4 tasks	Brakes Technician must complete 1 task from each sub-group, totally 4 tasks	Emissions Technician must complete 1 task from each sub-group, totally 4 tasks	Electrical Technician must complete 1 task from each sub-group, totally 4 tasks
A	Tyre Wear	Disc Measurement	Live Data – Analyse Data	Electrical wiring fault (1)
B	Inspection of vehicle front suspension (1)	Brake servo	Emission tester	Resistance check
	Inspection of vehicle front suspension (2)	ABS Fault (1)	Emission test sample	Circuit produce – relay
	Steering	ABS Fault (2)	Petrol injector fault	Circuit relay fault
C	Anti-roll bar links/bushes	Brake fluid	O2 Sensor – Data (1)	Fault code diagnosis
	Inspection of vehicle rear suspension	Brake pipe fabrication	O2 Sensor – Data (2)	CAN network fault
	Suspension component inspection	Brake pipe/hosepipe inspection	Scan tool data	Electrical wiring fault (2)
D	Steering mechanism – Vague steering	Disc caliper	Fuel system	Oscilloscope measurement
	Steering mechanism – Stiff steering	Handbrake – Not functioning	Engine non-start (1)	Oscilloscope waveform ID
	Steering mechanism check	Drum brake inefficient	Engine non-start (2)	Wiring diagram identification

External Quality Assurance

SEG Awards will carry out periodic audit inspections on centres approved to deliver the Vehicle Technician Accredited Assessment. This will be to ensure that the integrity of the assessments are upheld and that centres have the relevant processes and procedures in place.

Audit Requirements

An SEG Awards auditor will contact the Centre to arrange a date for an initial inspection. Centres will agree a date with the Auditor. The agreed date needs to be on a day when assessments are taking place.

The VTAA self-declaration form will be validated at the audit. If the audit identifies any issues with processes, procedures and/or resources then approval and certification may be withdrawn.

The audit report will be sent to SEG Awards by the auditor. If any compliance issues are identified then these will be referred to the SEG Awards Compliance Team.

After the initial inspection all approved centres will be subject to an annual audit. Additional or earlier audits will be carried out where centres have 150+ registrations in a year.

Please Note:

- SEG Awards expects that a practical assessment and/or an online assessment are taking place on the agreed audit date.
- Failure to advise the auditor of changes before the audit date could result in certification being put on hold until SEG Awards is confident that all assessment standards are being complied with.
- If the auditor does not observe a practical assessment or an online assessment on the date agreed an additional audit will be arranged and a charge will be applicable.

Appendix 1: Resource Requirements

Suspension, Steering, Wheels & Tyres

Task	Task Title	Vehicle/rig/other	Tools and equipment list
Sus – 01	Tyre Wear	No vehicle or rig needed	• Two physical wheel / tyre assemblies • Illustrations laminated and labelled A to E* • Technician marking sheet
Sus – 02	Inspection of Vehicle Front Suspension (1)	Vehicle	• Selection of levers - suitable to achieve the outcome of the task • Selection of hand tools to suit task • Clipboard • Inspection lamp • PPE
Sus – 03	Inspection of Vehicle Front Suspension (2)	Vehicle with front wishbone type suspension only can be used on this task.	• Selection of levers – suitable to achieve the outcome of the task • Selection of hand tools to suit task • Clipboard • Inspection lamp • PPE
Sus – 04	Steering	Vehicle	• Selection of hand tools to suit task • Clipboard • Inspection lamp and well-lit area of workshop • PPE
Sus – 05	Anti-roll bar links / brushes	Vehicle only	• Clipboard • Inspection lamp

			PPE
Sus – 06	Inspection of Vehicle Rear Suspension	Vehicle with rear independent suspension can only be used on this task	Selection of levers - suitable to achieve the outcome of the task Selection of hand tools to suit task Clipboard Inspection lamp PPE
Sus – 07	Suspension Component Inspection	Rig only	Selection of levers - suitable to achieve the outcome of the task Selection of hand tools to suit task Clipboard Inspection lamp PPE
Sus – 08	Steering Mechanism – Vague Steering	Vehicle with steering rack without or with PAS	Selection of lever bars Selection of hand tools to suit the task Clipboard Inspection lamp PPE
Sus – 09	Steering Mechanism – Stiff Steering	Vehicle or rig with steering rack/box (without or with PAS)	Selection of levers bars Selection of hand tools to suit the task Clipboard Inspection lamp and a well-lit area of workshop PPE
Sus – 10	Steering Mechanism Check	Vehicle without PAS	Selection of hand tools to suit the task Clipboard

			› Inspection lamp and well-lit area of workshop › PPE

*Provided by SEG Awards – VTAA Practical Tasks Document

Brakes

Task	Task Title	Vehicle/rig/other	Tools and equipment list
Bra - 01	Disc - Measurement	Rig	Work bench Selection of hand tools to suit task Clipboard Inspection lamp/well-lit workshop area Micrometer to measure the thickness of the disc Dial Test Indicator gauge and mounts to check the run out
Bra - 02	Brake Servo	Vehicle/Rig	Petrol or diesel engine vehicle Clipboard Inspection lamp
Bra - 03	ABS fault (1)	Vehicle/Rig	Work bench Selection of hand tools to suit task Clipboard Inspection lamp Multimeter Additional wiring/harness to create a temporary harness to check continuity of the wiring
Bra - 04	ABS Fault (2)	Vehicle/Rig	Work bench Selection of hand tools to suit task Clipboard Inspection lamp Multimeter

			• Oscilloscope with the correct set up according to the waveform/signal voltage
Bra - 05	Brake Fluid	n/a	• Brake fluid tester. This can be either equipment that registers the exact boiling point or a red/amber/green brake fluid tester • Cleaning cloth and absorbent materials • Clipboard • Inspection lamp • PPE
Bra - 06	Brake Pipe Fabrication	n/a	• Work bench • Vice fitted securely to the workbench • Selection of hand tools to suit task • Tape measure • Clipboard • Well-lit area of the workshop • Roll of copper brake pipe 3/8 • Brake pipe flaring kit in packaging (opened and fully stocked) • Supply of brake pipe unions to suit brake pipe (internal/external) • Torque wrench – selection of (if applicable to brake pipe flaring kit) • Grease/oil • Manufacturer of equipment instructions/specs

Bra - 07	Brake Pipe/Brake Hose Inspection	Vehicle/rig	› Brake pipe corrosion tool › Selection of hand tools to suit task › Clipboard › Inspection lamp › Well-lit workshop area › PPE
Bra - 08	Disc Caliper	Vehicle/Rig	› Work bench › If applicable - vice fitted to workbench that allows caliper / disc assembly to be held securely › Selection of hand tools to suit task › Clipboard › Inspection lamp › Torque wrench - selection of › Manufacturer instructions / specs
Bra - 09	Handbrake – Not Functioning	Vehicle/Rig	› Work bench › Selection of hand tools to suit task › Clipboard › Inspection lamp
Bra - 10	Brake Drum Inefficient	Vehicle/Rig	› Work bench › Selection of hand tools to suit task › Clipboard › Inspection lamp

Emissions

Task	Task Title	Vehicle/rig/other	Tools and equipment list
Emi - 01	Live Data – Analyse Data	Vehicle/Rig – petrol engine	› Scan tool › Work bench › Well-lit workshop area › Technician marking sheet
Emi – 02	Emission Tester	Vehicle/Rig – petrol engine	› Exhaust Gas analyser with print out facility › Exhaust extraction system securely fitted to exhaust tailpipe › Selection of hand tools to suit task › Clipboard › Well-lit workshop area › PPE
Emi – 03	Emission Test Sample	No vehicle or rig needed.	› 5 pictures laminated and labelled A to E › Technician marking sheet

Emi – 04	Petrol Injector Fault	Vehicle/Rig – petrol/diesel engine.	Scan tool with correct software to vehicle Engine Management system restricted to live data only Oscilloscope Multimeter (with duty cycle/injector duration) Exhaust extraction system securely fitted to exhaust tailpipe Selection of hand tools to suit task Clipboard Well-lit workshop area PPE
Emi – 05	O2 Sensor – Data (1)	Vehicle/Rig – petrol engine.	Scan tool with correct software to system Exhaust extraction system securely fitted to exhaust tailpipe Selection of hand tools to suit task Clipboard Well-lit workshop area PPE
Emi – 06	O2 Sensor – Data (2)	Vehicle/rig – petrol engine.	Scan tool with correct software to system Exhaust extraction system securely fitted to exhaust tailpipe Selection of hand tools to suit task Clipboard Well-lit workshop area PPE
Emi – 07	Scan Tool Data	Vehicle/Rig – petrol/diesel engine.	Scan tool with correct software to system

			› Exhaust extraction system securely fitted to exhaust tailpipe › Selection of hand tools to suit task › Clipboard › Well-lit workshop area › PPE
Emi – 08	Fuel System	Vehicle/Rig – naturally aspirated diesel engine.	› Scan tool connected to engine with data list selected › Exhaust extraction system securely fitted to exhaust tailpipe › Selection of hand tools to suit task › Clipboard › Well-lit workshop area › PPE
Emi – 09	Engine Non-Start (1)	Vehicle/Rig – petrol/diesel (common rail) engine	› Container to accept fuel › Ignition/spark neon/LED light tester to measure HT voltage › Scan tool with correct software to vehicle Engine Management system to allow access to live data › Multimeter › Selection of hand tools to suit task › Clipboard › Well-lit workshop area › PPE
Emi - 10	Engine Non-Start (2)	Vehicle/Rig – petrol engine	› Vehicle workshop manual (electrical wiring diagram + fuse location)

			• Ignition, spark neon or LED light tester to measure HT voltage • Scan tool with correct software to vehicle Engine Management system to allow access to live data • Multimeter • Selection of hand tools to suit task • Clipboard

Electrical

Task	Task Title	Vehicle/rig/other	Tools and equipment list
Ele - 01	Electrical Wiring Fault (1)	Vehicle or electrical rig	• Multimeter • LED test lamp/circuit tester • Vehicle Information – Electrical wiring diagram • Vehicle Information – Component location(s) • Various electrical connector/test leads • Well-lit area of workshop/inspection lamp • Technician marking sheet • PPE
Ele – 02	Resistance Check	No vehicle or rig needed	• 5 wires, labelled A-E, laid out on workbench • Workbench • Well-lit area • Technician marking sheet
Ele – 03	Circuit Produce - Relay	No vehicle or rig needed – electrical circuit board	• Multimeter with DC volts • Workbench • Well-lit area • Technician marking sheet
Ele – 04	Circuit Relay Fault	Vehicle or rig (electrical circuit board)	• Multimeter with DC volts • Circuit diagram for the vehicle/circuit • Work bench • Well-lit area

			Technician marking sheet
Ele – 05	Fault Code Diagnosis	Petrol engine vehicle	Multimeter Fault code reader with correct software to communicate Various electrical connector/test leads Well-lit area/inspection lamp Technician marking sheet
Ele – 06	CAN Network Fault	Vehicle/rig – with CAN	Scan tool with correct software to system to enable the following live data to be read; communication with various control units. Multimeter (digital) Selection of hand tools to suit task Clipboard Well-lit workshop area PPE
Ele – 07	Electrical Wiring Fault (2)	Vehicle or electrical rig	Multimeter including amps clamp LED test lamp / circuit tester Vehicle Information - Electrical wiring diagram Vehicle Information - Component location(s) Various electrical connector / test leads Well-lit area / inspection lamp Technician marking sheet PPE

Ele – 08	Oscilloscope Measurement	Petrol engine vehicle	Oscilloscope Various electrical connector/test leads Well-lit area – inspection lamp Technician marking sheet
Ele – 09	Oscilloscope Waveform ID	No vehicle or rig needed	5 pictures laminated and labelled A – E* Technician marking sheet
Ele - 10	Wiring Diagram Identification	Wiring diagram	Colour highlighters Well-lit area Technician marking sheet

*Provided by SEG Awards – VTAA Practical Tasks Document