ELECTRIC / HYBRID VEHICLE - GUIDELINES

1. Introduction

ATA is governed by the Institute of the Motor Industry (IMI) in line with ATA requirements.

Under this scheme, an Electric / Hybrid Vehicle (EV) Technician will be able to gain accredited status by successfully completing a series of knowledge tests and practical assessments.

The successful Technician will be issued with an ATA photo ID card, which is valid for five years, and entered onto the ATA Register (refer to ATA website).

Organisations wishing to offer ATA EV assessments must be approved by a regulated Awarding Organisation which is recognised by the IMI.

2. ATA EV Assessment Guidelines

Assessments must be undertaken off the job within an approved assessment centre. Each assessment must be assessed by occupationally competent and qualified assessors.

Note: *All ATA assessors and verifiers must be approved by the awarding body in advance of carrying out assessments/verification.*

To ensure currency of assessments, no more than twelve months may elapse between the first assessment and the last successful assessment (online test and/or practical assessments).

Prior to assessment, the approved centre must ensure that the candidate:

- has been registered to take the assessments
- is eligible to take the assessments
- has signed the ATA Code of Conduct.

On the assessment day the centre must ensure the candidate has provided photographic proof of identity in the form of a driving licence or valid passport.

Candidates who initially pass any of the practical tasks may 'bank' these assessments achieved for a maximum of twelve months.

Candidates who are referred on any of the practical assessment tasks, may re-take these assessments within the twelve-month period.

Candidates must successfully pass the underpinning knowledge test. Candidates may re-take the on-line knowledge test as many times as the centre considers appropriate. However, if they are not successful after three attempts and suitable refresher training, the centre should review whether they are being assessed at the most appropriate level.

3. Levels of ATA Electric Vehicle

ATA EV technicians may become accredited at the following levels

- Technician
- Senior Technician (to be developed)

Note. *There is an ATA Electric/Hybrid Vehicle Safe Working Module available as a single ATA Module, please refer to the Module details in the ATA EV Technician assessments below for further information.*

4. Candidate requirements

A candidate should have a minimum level of industry experience in an appropriate role as follows:

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Technician	1 year
Senior Technician	2 years

  or

- hold a relevant nationally recognised qualification as follows, as well as a minimum of 1 year's post qualification experience in an appropriate role:

Technician	Level 2 qualification
Senior Technician	Level 3 qualification

5. Assessment Details

To attain ATA EV accreditation, candidates will have to pass an on-line knowledge test and a number of required practical assessments, which is dependent on level.

The on-line test will be multiple choice and consist of randomised questions from a bank.

The ATA EV practical assessment documents comprise of the technician's instructions and associated documents. These documents are accessible to approved centres only.

Note: *Throughout the practical assessments, candidates will be assessed against Health and Safety, any regulation requirements and use of Personal Protection Equipment.*

EV Technician Assessment

To become an accredited EV Technician, candidates must pass 3 practical assessments and an on-line knowledge test.

EV Technician- practical assessments:

Electric/Hybrid Vehicle Safe Working Module

- To demonstrate awareness of the procedures needed (inc use of Personal Protection Equipment (PPE)) and dangers of working on a vehicle fitted with high voltage system(s)
- To identify the construction / configuration type, any manufacturer information needed during the maintenance of the 'electric drive system'
- Identify any hazards associated with and the high voltage components/cabling (and routing of) when working on a vehicle fitted with high voltage system(s), pre, during and post assessment
- To disable / make safe high voltage system(s) before working on a vehicle, therefore allowing a technician to work on the vehicle safely
- To identify that the vehicle high voltage system is fault free and ready to be handed over to the customer.

High Voltage Battery Replacement

- To demonstrate awareness of the procedures and dangers of working on a vehicle fitted with high voltage system(s)
- To identify the necessary Personal Protection Equipment (PPE) required when working on a vehicle fitted with high voltage system(s)
- Identify any hazards including any high voltage components/cabling when working on a vehicle fitted with high voltage system(s)
- To remove the high voltage battery(ies) from the vehicle
- To replace high voltage battery(ies) / components removed from the vehicle and reset systems to the correct settings using the correct tools and equipment
- To reinstate the vehicle to a condition ready for the isolation device to be reconnected.

High Voltage Inverter Replacement

- To demonstrate awareness of the procedures and dangers of working on a vehicle fitted with high voltage system(s)
- To identify the necessary Personal Protection Equipment (PPE) required when working on a vehicle fitted with high voltage system(s)
- Identify any hazards including any high voltage components/cabling when working on a vehicle fitted with high voltage system(s)
- To remove the high voltage inverter(s) from the vehicle and associated components
- To replace high voltage inverter(s) and applicable components removed from the vehicle
- Reset systems to the correct settings using the correct tools and equipment
- To reinstate the vehicle to a condition ready for the isolation device to be reconnected.

Electric Vehicle Technician – underpinning knowledge test:

EV Technician – 30 questions / 45 minutes

The theory test includes the following areas to ensure that the candidate has the underpinning knowledge of an EV technician.

- Legislation, health and safety
- High Voltage Electric Vehicle components
- Vehicle electrical knowledge
- Service processes and procedures
- High Voltage components

Senior Technician Assessment

To be developed.