

# **SEG Awards ABC Level 1 Award in Automotive Electric/Hybrid Vehicle Awareness**

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## **Qualification Guidance**

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**603/5919/5**

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## About Us

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At the Skills and Education SEG Awards (ABC)<sup>1</sup> we continually invest in high quality qualifications, assessments and services for our chosen sectors. As a UK leading sector specialist we continue to support employers and skills providers to enable individuals to achieve the skills and knowledge needed to raise professional standards across our sectors.

ABC has an on-line registration system to help customers register learners on its qualifications, units and exams. In addition it provides features to view exam results, invoices, mark sheets and other information about learners already registered.

The system is accessed via a web browser by connecting to our secure website using a username and password: [https://secure.ABCawards.co.uk/ors/secure\\_login.asp](https://secure.ABCawards.co.uk/ors/secure_login.asp)

## Sources of Additional Information

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The ABC website [www.ABCawards.co.uk](http://www.ABCawards.co.uk) provides access to a wide variety of information.

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## Specification Code, Date and Issue Number

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The specification code is A6007-01.

| <b>For Skills and Education Awards Use Only</b> |             |                          |                     |
|-------------------------------------------------|-------------|--------------------------|---------------------|
| <b>Issue</b>                                    | <b>Date</b> | <b>Details of change</b> | <b>Section/page</b> |
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|                                                 |             |                          |                     |
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<sup>1</sup> ABC Awards is a brand of the Skills and Education Group Awards, a recognised awarding organisation and part of the Skills and Education Group. Any reference to ABC Awards, its registered address, company or charity number should be deemed to mean the Skills and Education Group Awards.

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This is a live document and as such will be updated when required. It is the responsibility of the approved centre to ensure the most up-to-date version of the Qualification Guide is in use. Any amendments will be published on our website and centres are encouraged to check this site regularly.

## Introduction

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This single unit qualification has been developed to provide individuals, working within the automotive environment, with the essential knowledge of the hazards associated with Electric/Hybrid vehicles and the precautions to follow to avoid these.

**\*Please note that this qualification does not meet the requirements of a technician repairing faults or the removal or fitting of the high voltage components on Hybrid vehicles.**

## Pre-requisites

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There are no specific academic or vocational achievement requirements to register on this qualification. However, a basic knowledge of the operation of an Electric/Hybrid vehicle and its relevant systems would be an advantage.

## Qualification Structure

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This qualification is also mapped to the following National Occupational Standard (NOS):

| Unit                              | Unit Number | Level | Credit Value | GLH |
|-----------------------------------|-------------|-------|--------------|-----|
| Mandatory – Group A               |             |       |              |     |
| Electric/Hybrid Vehicle Awareness | H/618/1364  | 1     | n/a          | 12  |

## Assessment

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In order to successfully achieve this qualification a learner must fully meet all of the learning outcomes. This is done by completing the Skills and Education Group Awards' online multiple choice test.

The multiple choice online test is separated into three areas and contains a total of 20 questions. The maximum time allowed to complete the assessment is **40 minutes** and the questions will assess the knowledge from across the breadth of the criteria in the following way:

| Subject                                                                 | Number of questions |
|-------------------------------------------------------------------------|---------------------|
| 1. Understand the different types of Electric/Hybrid vehicles           | 4                   |
| 2. Know and understand risks associated with Electric/Hybrid vehicles   | 8                   |
| 3. Know and understand how to work safely with Electric/Hybrid vehicles | 8                   |

The grade boundaries for the online multiple choice knowledge test are as follows:

- 0 – 59% = **Fail**
- 60 – 79% = **Pass**
- 80 – 100% = **Distinction**

### Online Test and Retakes

The online test must be conducted under exam conditions and in line with the SEG Awards document "Instructions for the Conduct of Examinations and Other External Assessment" which is available here:

<https://www.abcawards.co.uk/info-hub/>

There is no limit on the amount of retakes, however there will be a charge for each one taken.

## Teaching Strategies and Learning Activities

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Centres should adopt a delivery approach which supports the development of all individuals. The aims and aspirations of all the learners, including those with identified special needs or learning difficulties/disabilities, should be considered and appropriate support mechanisms put in place.

## Progression Opportunities

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Learners who successfully complete the Level 1 Award may be able to continue in further education and training related to this area of expertise or progress into employment.

Centres should be aware that Reasonable Adjustments which may be permitted for assessment may in some instances limit a learner's progression into the sector. Centres must therefore inform learners of any limits their learning difficulty may impose on future progression, if applicable.

## Tutor Requirements

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Skills and Education Group Awards require those involved in the delivery process to be suitably experienced and/or qualified. In general terms, this usually means that the tutor must be knowledgeable of the subject/occupational area to at least the level they are delivering at.

Those responsible for Internal Quality Assurance (IQA) must be knowledgeable of the subject/occupational area to a suitable level to carry out accurate quality assurance practices and processes.

## Language

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This specification and associated assessment materials are in English only.

## Qualification Summary

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|                                                                   |                                                                                                                     |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Qualification</b>                                              |                                                                                                                     |
| Level 1 Award in Automotive Electric/Hybrid Awareness –603/5919/5 |                                                                                                                     |
| <b>Qualification Purpose</b>                                      | Prepare for further learning or training and/or develop knowledge and/or skills in a subject area                   |
| <b>Regulation</b>                                                 | The above qualification is regulated by: <ul style="list-style-type: none"> <li>• Ofqual</li> </ul>                 |
| <b>Assessment</b>                                                 | <ul style="list-style-type: none"> <li>• External assessment</li> <li>• Internal and external moderation</li> </ul> |
| <b>Grading</b>                                                    | Pass/distinction                                                                                                    |
| <b>Operational Start Date</b>                                     | 01/09/2020                                                                                                          |
| <b>Review Date</b>                                                | 31/08/2023                                                                                                          |
| <b>Operational End Date</b>                                       |                                                                                                                     |
| <b>Certification End Date</b>                                     |                                                                                                                     |
| <b>Guided Learning</b>                                            | 12                                                                                                                  |
| <b>Total Qualification Time (TQT)</b>                             | 13                                                                                                                  |
| <b>ABC Sector</b>                                                 | Automotive                                                                                                          |
| <b>Ofqual SSA Sector</b>                                          | 4.3 Transportation Operation and Maintenance                                                                        |
| <b>Support from Trade Associations</b>                            |                                                                                                                     |
| <b>Administering Office</b>                                       | See ABC web site                                                                                                    |

## Unit Details

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### Automotive Electric/Hybrid Vehicle Awareness

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|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit Reference</b>                                             | <b>H/618/1364</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Level</b>                                                      | <b>1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Guided Learning</b>                                            | <b>12</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Unit Summary</b>                                               | This unit is for people who work on or near electric and hybrid vehicles but do not work on the vehicle's high energy electrical system. Examples of these job roles include: sales staff, cleaners/valeters or vehicle fitters. The unit includes essential knowledge of the hazards associated with electric and hybrid vehicles and the precautions to follow to avoid these. Note: This unit does not deem someone competent to maintain, service or repair high energy electrical systems. |
| <b>Learning Outcomes<br/>(1 to 3)<br/><i>The learner will</i></b> | <b>Assessment Criteria<br/>(1.1 to 3.3)<br/><i>The learner can</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1. Understand the different types of Electric/Hybrid vehicles     | <p>1.1 Know how to identify Electric/Hybrid vehicles</p> <p>1.2 Know and understand how the vehicle is powered and the associated health and safety risks</p> <p>1.3 Know and understand the differences between Electric and Hybrid vehicles</p> <p>1.4 Recognise and understand relevant warning signs</p> <p>1.5 Know and understand how to find, interpret and use sources of information applicable to Electric/Hybrid vehicles as appropriate to your job role</p>                        |



## Skills and Education Group Awards

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|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>2. Know and understand risks associated with Electric/Hybrid vehicles</p>   | <p>2.1 Know and understand the health, safety and environmental regulations applicable to Electric/Hybrid vehicles.</p> <p>2.2 Know and understand the hazards associated with high energy electrical vehicle components</p> <p>2.3 Work in a way which reduces the risk to yourself or colleagues when working on Electric/hybrid vehicles</p> <p>2.4 Understand how to make others aware of work being carried out on an Electric/Hybrid vehicle</p> <p>2.5 Know how to identify high energy electrical components and cabling</p> <p>2.6 Know and understand the implications of electrical conductivity through the human body and other potential medical conditions that can occur regardless of current type present in the Electric/Hybrid vehicle</p> |
| <p>3. Know and understand how to work safely with Electric/Hybrid vehicles</p> | <p>3.1 Describe how to check a Hybrid/Electric vehicle is completely safe to work on</p> <p>3.2 Explain the procedures required for working safely in and around Electric/Hybrid vehicles specifically to include the isolation operation</p> <p>3.3 Know and understand the hazards associated with Electric/Hybrid vehicle batteries when exposed to extreme temperatures, impact and other adverse conditions</p>                                                                                                                                                                                                                                                                                                                                           |

## Recognition of Prior Learning (RPL), Exemptions, Credit Transfers and Relevant Equivalencies

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Skills and Education Group Awards policy enables learners to avoid duplication of learning and assessment in a number of ways:

- Recognition of Prior Learning (RPL) – a method of assessment that considers whether a learner can demonstrate that they can meet the assessment requirements for a unit through knowledge, understanding or skills they already possess and do not need to develop through a course of learning.
- Exemption - Exemption applies to any certificated achievement which is deemed to be of equivalent value to a unit within Skills and Education Group Awards qualification but which does not necessarily share the exact learning outcomes and assessment criteria. It is the assessor's responsibility, in conjunction with the Internal Moderator, to map this previous achievement against the assessment requirements of the Skills and Education Group Awards qualification to be achieved in order to determine its equivalence.
- Any queries about the relevance of any certificated evidence, should be referred in the first instance to your centre's internal moderator and then to Skills and Education Group Awards.

It is important to note that there may be restrictions upon a learner's ability to claim exemption or credit transfer which will be dependent upon the currency of the unit/qualification and a learner's existing levels of skill or knowledge.

Where past certification only provides evidence that could be considered for exemption of part of a unit, learners must be able to offer additional evidence of previous or recent learning to supplement their evidence of achievement.

- Credit Transfer – Skills and Education Group Awards may attach credit to a qualification, a unit or a component. Credit transfer is the process of using certificated credits achieved in one qualification and transferring that achievement as a valid contribution to the award of another qualification. Units/Components transferred must share the same learning outcomes and assessment criteria along with the same unit number. Assessors must ensure that they review and verify the evidence through sight of:
  - Original certificates OR
  - Copies of certificates that have been signed and dated by the internal moderator confirming the photocopy is a real copy and make these available for scrutiny by the External Moderator.
- Equivalencies – opportunities to count credits from the unit(s) from other qualifications or from unit(s) submitted by other recognised organisations towards the place of mandatory or optional unit(s) specified in the rule of combination. The unit must have the same credit value or greater than the unit(s) in question and be at the same level or higher.

## Skills and Education Group Awards

Skills and Education Group Awards encourages its centres to recognise the previous achievements of learners through Recognition of Prior Learning (RPL), Exemption, Credit Transfer and Equivalencies. Prior achievements may have resulted from past or present employment, previous study or voluntary activities. Centres should provide advice and guidance to the learner on what is appropriate evidence and present that evidence to the external moderator in the usual way.

Further guidance can be found in 'Delivering and Assessing ABC Awards Qualifications' which can be downloaded from <http://www.abcawards.co.uk/centres-grid-page-move/policies-procedures/>

## Certification

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Learners will be certificated for all units and qualifications that are achieved and claimed.

Skills and Education Group Awards' policies and procedures are available on the ABC web site.

## Exemptions

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There are no identified exemptions for this qualifications.

## Glossary of Terms

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### **GL (Guided Learning)**

Guided learning hours are where the learner participates in education or training under the immediate guidance or supervision of a tutor (or other appropriate provider of education or training). It may be helpful to think – ‘Would I need to plan for a member of staff to be present to give guidance or supervision?’

GL is calculated at qualification level and not unit/component level.

Examples of Guided Learning include:

- Face-to-face meeting with a tutor
- Telephone conversation with a tutor
- Instant messaging with a tutor
- Taking part in a live webinar
- Classroom-based instruction
- Supervised work
- Taking part in a supervised or invigilated formative assessment
- The learner is being observed as part of a formative assessment.

### **TQT (Total Qualification Time)**

‘The number of notional hours which represents an estimate of the total amount of time that could reasonably be expected to be required, in order for a learner to achieve and demonstrate the achievement of the level of attainment necessary for the award of a qualification.’ The size of a qualification is determined by the TQT.

TQT is made up of the Guided Learning Hours (GLH) plus all other time taken in preparation, study or any other form of participation in education or training but not under the direct supervision of a lecturer, supervisor or tutor.

TQT is calculated at qualification level and not unit/component level.

Examples of unsupervised activities that could contribute to TQT include:

- Researching a topic and writing a report
- Watching an instructional online video at home/e-learning
- Watching a recorded webinar
- Compiling a portfolio in preparation for assessment
- Completing an unsupervised practical activity or work
- Rehearsing a presentation away from the classroom
- Practising skills unsupervised
- Requesting guidance via email – will not guarantee an immediate response.