

## Automotive and Bodyshop Competence Awards

### Advanced Driver Assistance Systems (ADAS) Calibration

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#### Accreditation Overview

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This accreditation will enable the candidate to demonstrate their:

- knowledge of the repair and calibration of Light Vehicles fitted with ADAS equipment in preparation of calibration
- ability to prepare a Light Vehicle fitted with ADAS equipment for carrying out repairs and calibration
- Competence in removing and replacing ADAS components
- Competence in the calibration of ADAS components

#### Practical Assessment Requirements

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**The candidate must be able to demonstrate, whilst being observed:**

- the use of a suitable work area which is fully compliant with carrying out repairs or calibration to vehicles fitted with ADAS equipment
- the use of correct personal and vehicle protective equipment at all times
- how to select and refer to suitable technical information applicable for the repair or calibration of the vehicle
- how to carry out a full pre work and post work diagnostic check of the vehicle prior to calibration
- how to ensure a consultation with the customer giving all relevant information regarding the ADAS system status prior to carrying out any repairs
- how to ensure the customer is aware of the calibration process prior to any repairs
- how to select repair procedures for specific vehicles
- the correct removal and replacement of an ADAS component
- the use of the correct procedure to re-instate the vehicle according to the manufacturer's instructions including calibration of an ADAS component
- how to select repair procedures for specific vehicle

#### Knowledge Assessment Overview

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The knowledge assessment is set by Skills and Education Group Awards. For this accreditation this will be in the form of a centre invigilated multiple choice online test. The assessment has 30 multiple choice questions in total, which are selected at random.

## Skills and Education Group Awards

**Please note:** candidates must achieve 60% in all sections to achieve a pass. Failure to do so will require the candidate to take a resit of the complete online assessment, not just the failed section(s). Any candidate that is referred must be prevented from continuing with the skills (practical) assessment.

This is an invigilated, closed book assessment. The maximum time allowed to complete the assessment is **60 minutes** and the questions will assess the knowledge from across the breadth of the criteria in the following way:

<b>Subject</b>	<b>Number of questions</b>
1. Understand the risks and hazards associated with light vehicles fitted with ADAS equipment in preparation for calibration	7
2. Know and understand the different types of light vehicle ADAS equipment associated technology, components, operating principles and calibration	7
3. Know how to prepare a light vehicle fitted with ADAS equipment when carrying out repair procedures and preparing for calibration	8
4. Know how to work safely and prepare for calibration on light vehicles fitted with ADAS equipment	8

### Knowledge Criteria

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#### **Understand the risks and hazards associated with light vehicles fitted with ADAS equipment in preparation for calibration**

The candidate needs to:

- understand the health and safety legislation and workplace procedures relating to working on light vehicles that are fitted with ADAS equipment and preparation for vehicle calibration
- understand the dangers relating to working with ADAS equipment for repairs and calibration
- understand the safety requirements when working on and calibrating light vehicles fitted with ADAS equipment
- Describe light vehicles equipped with ADAS equipment systems and their associated safety risks

### **Know and understand the different types of light vehicle ADAS equipment associated technology, components, operating principles and calibration**

The candidate needs to:

- understand how to identify components that are associated with an ADAS system fitted to light vehicles know how to use equipment to identify the type of refrigerant removed
- understand the operating principles of the components when repairing or for the calibration of vehicles equipped with ADAS systems
- understand the overall operational function of equipment involved in ADAS systems
- know and understand the location/position of components associated with ADAS
- understand how to store ADAS system and calibration equipment safely
- Understand the process and type of ADAS calibration methods

### **Know how to prepare a light vehicle fitted with ADAS equipment when carrying out repair procedures and preparing for calibration**

The candidate needs to:

- Describe the preparation of the vehicle, prior to conducting service/repair and calibration of a light vehicle fitted with ADAS equipment

### **Know how to work safely and prepare for calibration on light vehicles fitted with ADAS equipment**

The candidate needs to:

- Describe safe working methods associated with ADAS calibration

### **Additional Prerequisites (not stated in the Centre Guidance)**

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To be eligible to undertake this Accreditation the candidate must meet all prerequisites as stated in the Centre Guidance document and:

- Have at least two years' experience in the service and repair of automotive vehicles to ensure they have sufficient skills and knowledge to remove, replace and calibrate ADAS components