

**Level:** L6/7 (Ofqual) or equivalent.

**Suitable for:** For senior engineers with responsibilities for the design of vehicles and the management of high voltage.

**Prerequisites:** It is assumed that the learners would have extensive experience of high voltage vehicle systems and design.

**Credit Size**

TBC

**Indicative Learning Hours** 35 (estimate)

**Indicative Contact Hrs**

30 (estimate)

**Indicative Self-Directed Study Hrs.**

5 (estimate)

**Version:** 1

**Created:** 01/02/2021

**Revised:**

**Learning Outcomes (LO):**

On completion of unit learners will:

1. Demonstrate an advanced and detailed knowledge of the specific safety issues relating to charging batteries, particularly management of high voltage and currents heating and overcharge management (165) (K) (MF)
2. Demonstrate a specialist understanding of the battery system diagnostic functions. Responsible for creating appropriate diagnostic structures to support customer, maintenance and factory diagnostic functions (166) (K) (ET/MF/IDT)
3. Use a detailed knowledge of the specific safety issues around battery system design to meet appropriate safety and regulatory requirements (168) (K) (MF)

**Assessment**

Knowledge assessment through an assignment or project

**Suggested format**

For an assessment at this level an assignment or project, allowing the learner to demonstrate their knowledge, would be most appropriate.

Core Subjects	Potential Curriculum Coverage (initial mapping shows some matches to high level statements)	Currently Delivered By
All	WMG – Sustainable Automotive Engineering Programme	WMG

**Additional information and recommendations**

Current qualification or learning at this level have not been identified and may not be available.