

Electronic Battery Management

The charging systems in many vehicles on our roads are now no longer a stand-alone electrical system. As seen in nearly all modern vehicles, we have moved towards electronically managing the charging system in order to meet the emissions requirements, high current demands and changing battery designs associated with Start/Stop and other advanced functions. This knowledge is required in order to competently diagnose and perform electrical work.

This training course will give the technician a detailed insight into:

- ▶ Vehicle electrical and charging system fundamentals
- ▶ Alternator and regulator types and evolution
- ▶ Power management strategies and battery sensing systems
- ▶ Alternator interfaces and control signals (DFM etc)
- ▶ Modern battery design, replacement (e.g. ECU coding, battery type) and modifications
- ▶ Practical on-vehicle testing and diagnosis procedures



Course Duration – **1 full day or 2 morning sessions across 2 consecutive days.**

