mrc malaysia
motordata research consortium sdn bhd

IMI INSTITUTE OF THE MOTOR INDUSTRY

HRDCORP CLAIMABLE

IMI INTERNATIONAL LEVEL 4

AWARD IN FAULT DIAGNOSIS, TESTING & REPAIR OF ELECTRIC / HYBRID VEHICLES & COMPONENTS

The purpose and aim of this qualification is to provide technicians working on electric/hybrid vehicles with the required level of skills and knowledge to carry out repairs on live high voltage vehicle electrical components and systems safely.

MODULES

- Understanding electrical principles relating to low and high voltage vehicle systems.
- Knowing the hazards and first aid associated with working on live high voltage vehicle systems.
- Reducing risks when working on live high voltage vehicle systems.
- Understanding high voltage (HV) vehicle systems and components.
- Preparing the high voltage battery to be removed from the vehicle.
- Removing and replacing a high voltage battery module from the high voltage battery.
- Balancing high voltage battery modules.
- Carrying out diagnosis and testing of electric motors and inverters.
- Carrying out voltage shut down and power up procedures.
- Performing functional checks on high voltage vehicle systems following successful repair.

PROGRAMME OBJECTIVE

- The purpose of this Level 4 qualification is to equip technicians working on electric and hybrid vehicles with the necessary skills and knowledge to **safely diagnose, test, and repair live high-voltage (HV) vehicle electrical components and systems**. It has been developed in close collaboration with electric vehicle manufacturers, health & safety regulators and the industry skills council, to ensure that individuals working on high-voltage systems are able to recognise hazards, apply safe working practices, and competently carry out fault diagnosis and component replacement or repair.

PROGRAMME BENEFITS

- Technicians who complete this qualification will be able to demonstrate that they have practical competence in working on live high-voltage vehicle systems and components, which enhances their credibility and professional standing in the evolving electric/hybrid vehicle sector.
- This qualification acts as an entry route into professional recognition (for example, the “TechSafe™” register of the Institute of the Motor Industry (IMI), signalling to employers that the individual is up to date with the latest technology and safety requirements in EV/high-voltage repair work.
- It helps fill a critical skills gap in the electric/hybrid vehicle servicing industry. As high-voltage systems become more common, technicians who carry this credential are better positioned for roles involving battery systems, inverters/converters, motor drives, and other advanced EV components.
- From an organisational perspective, having staff with this certification helps demonstrate that the workshop or employer is committed to safe working practices when dealing with electric/hybrid high-voltage systems - which is increasingly important for liability, insurance, and regulatory compliance.

TRAINING METHOD

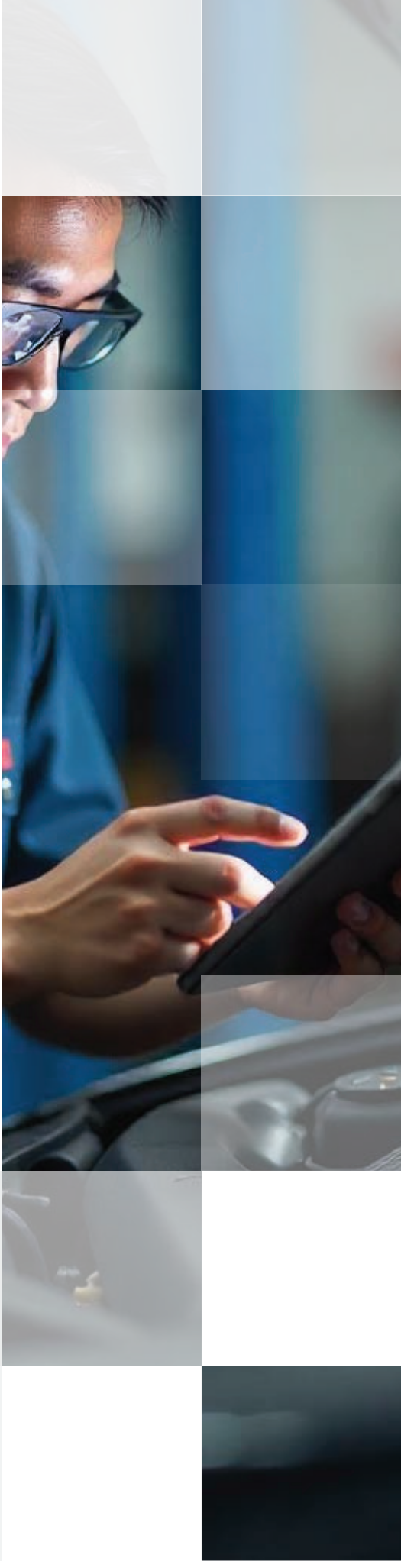
- Participant is required to take the practical assessment.

TARGET PARTICIPANTS

- Franchise and non-franchise repairer workshops, insurance companies, adjuster firms, automotive colleges students, government agencies.

COURSE DETAILS

- Duration : 3 days (Theory and Practical Class)
- Claim : HRD CORP CLAIMABLE COURSE
- Certificate : IMI International Qualification (Level 4) & MRC Attendance



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