

Electric Vehicle Three Phase Motors/Generators Course (2 Days)

Course Synopsis



Overview

Three Phase Motors and Generators are at the heart of any electrically propelled vehicle.

This course will unravel and explain the different types of three phase motors/generators, how they are constructed, how they work, and how they are operated.

During the 2-day course there are lots of practical exercises and examples to help you understand three phase motors and generators. This course is ideal for a delegate who has completed their IMI Level 3 Award in Electric/Hybrid Vehicle System Repair and Replacement and wants to go more in-depth.

The course is broken down into 4 parts:

- Part 1 – Types of Motors.
- Part 2 – Motors Construction & Function.
- Part 3 – Types of Generators.
- Part 4 – Inverter/Converter construction and operation.

Practical tasks will include:

- Understanding the difference between DC & Ac motors.
- Monitoring an AC motors three phases
- Speed controlling Three phase motors

- Oscilloscope for three phase feedback position sensors
- Insulation testing Three Phase Motors/Generators
- Milliohm testing Motors/Generators
- Voltage and Current Testing Motors/Generators

At the end of this course, you will have an in-depth knowledge and understanding on three phase motors/generators, being able to test, diagnose and repair/replace when necessary.

