

ELECTRONIC SYSTEMS DIAGNOSTICS AND REPAIR

MK020V01

Course Content

Module 1—Where Do I Start?

In module one, strategy-based diagnostics will be defined and the steps in the process explained. Finally, the importance of OEM repair requirements will be reinforced.

Module 2—Troubleshooting Common Types of Problems

Module two will provide ways to troubleshoot a problem with a diagnostic trouble code (DTC) and without a DTC. The module will continue by explaining ways to troubleshoot a problem where there isn't a troubleshooting procedure available. Finally, identifying ways to troubleshoot an intermittent problem will be discussed.

Module 3—Troubleshooting Tips

Module three will examine different ECU troubleshooting tips and why implausible or invalid information codes can set.

Recommendations

Additional courses that may be helpful include:

- Understanding Vehicle Communication Networks (MK015E01)
- Planning Mechanical Repairs (MK010V01)
- Initialisation and Calibration of Electronic Systems (MK190V01)
- Control Module Programming Overview (MK195V01)
- Troubleshooting Basic Electrical Circuits (MK180E01)

Course Benefits

Points: 0.50

Estimated Duration: 2 Hours

Format: Classroom & Virtual Classroom

Meets the I-CAR training requirements for the following roles:

-  ESTIMATOR
-  PRODUCTION MANAGEMENT
-  STEEL STRUCTURAL TECHNICIAN
-  ALUMINIUM TECHNICIAN
-  NON-STRUCTURAL TECHNICIAN
-  REFINISH TECHNICIAN
-  ASSESSOR

After completing this course, you will be able to:

- Examine Strategies for diagnosing CAN networks and have a clear understanding of how to determine the root cause of a DTC or multiple DTCs
- Identify what strategy based diagnostics is
- Recall the strategy based diagnostics steps
- Identify ways to troubleshoot a problem when there isn't a troubleshooting procedure available
- Identify ways to troubleshoot a problem that is intermittent

