

Course Outline: CAN Troubleshooting

- S1 – Intro to Networks & CAN
 - S1L1 – Intro to CAN
 - S1L2 – CAN Benefits
 - S1L3 – Notation
 - S1L4 – Topology
 - S1L5 – Typical System

- S2 – Intro Standards & Layers
 - S2L1 – Standards & Layers Intro
 - S2L2 – Layers in Details
 - S2L3 – Application Layer

- S3 – CAN Wiring Overview
 - S3L1 – Intro to Standards & Layers
 - S3L2 – J1939 Physical Layer
 - S3L3 – Bus Termination
 - S3L4 – Tool Location
 - S3L5 – Deviating from Standards
 - S3L6 – Data Link Layer

- S4 – CAN System Diagrams
 - S4L1 – Intro to System Diagrams
 - S4L2 – Harness Analysis
 - S4L3 – Schematics Refactoring

- S5 – CAN Electrical Overview
 - S5L1 – Intro to CAN Electrical
 - S5L2 – Resistance Refresher
 - S5L3 – Bus Resistance
 - S5L4 – Line Continuity
 - S5L5 – Node Resistance Check
 - S5L6 – CAN Line Voltage
 - S5L7 – Oscilloscope & CAN Signals

- S6 – CAN Faults
 - S6L1 – Intro to CAN Faults
 - S6L2 – Root Causes
 - S6L3 – Wiring Failures
 - S6L4 – Node Design Issues
 - S6L5 – Node Check
 - S6L6 – Other causes

- S7 – Wiring Diagnostic
 - S7L1 – Wiring Diag Intro
 - S7L2 – Termination Check Flow
 - S7L3-5 – Scenarios

- S8 – Advanced Diagnostics
 - S8L1 – Advanced Diagnostics Intro
 - S8L2 – Node Presence
 - S8L3 – Component Bench Test
 - S8L4 – Intermittent faults & Error Frames