



R-1234YF A/C TROUBLESHOOTING & DIAGNOSTIC TECHNIQUES

CONVENTIONAL, ELECTRIC & HYBRID VEHICLES

WITH MICHAEL INGVARSEN



- AC Loop Configurations - Accumulator, Expansion Valve, Dual-Climate
- System Components - Design Variations, Operation, Common Failures & Solutions
- Refrigerants - Characteristics, Suitability, Safety & Regulatory Concerns
- AC Oil - Types, Applications, Failures & Causes
- Diagnostics & Service
 - Tools & Equipment
 - Service Cycles & System Flushing Methods
 - Checking Refrigerant for Impurities
 - Pressure & Temperature Diagnostics, Visual Leak Detection
- Electric / Hybrid Vehicle Heat Pump Systems
 - Design & Configurations
 - Operation - Cooling, Heating, Battery Thermal Management
 - Components - Function, Operation, Common Problems & Solutions

***WED 5/7/25
THU 5/8/25***

**6PM-8PM PDT
CLASS ID: 0LT432
\$150 / STUDENT**