

## HYEV2603 - Electric Platform Technologies

Credits:	3 (2/1/0)
Description:	This class will focus on electric plug-in platforms, batteries, electric drive motors and modules that are unique to plug-in vehicles. This course will also cover vehicle diagnostics. Charging stations and charging diagnostics unique to this platform will be covered, as well as service and diagnosis.
Prerequisites:	
Corequisites:	• HYEV2601 • HYEV2602
Pre/Corequisites*:	
Competencies:	<ol> <li>Exhibit and demonstrate all safety precautions.</li> <li>Demonstrate knowledge of unique operation of electric vehicles vs. internal combustion vehicles.</li> <li>Correctly perform complex vehicle diagnostics unique to electric vehicles.</li> <li>Demonstrate knowledge and perform tests on the heating and air conditioning systems unique to electric vehicle platforms.</li> <li>Correctly perform diagnostics and repairs to high voltage batteries.</li> <li>Correctly diagnose and make repairs to 3-phase electric drive motors.</li> <li>Demonstrate understanding and diagnosis of power inverter and converters unique to electric vehicle platforms.</li> <li>Correctly perform insulation testing and diagnosis.</li> <li>Conduct a proper diagnosis of charging-related concerns.</li> </ol>
MnTC goal areas:	None

<sup>\*</sup>Can be taking as a Prerequisite or Corequisite.