

## HYEV2606 - Electric Platform Technologies

Credits:	2 (1/1/0)
Description:	This course focuses on electric plug-in platforms, batteries, electric drive motors and modules unique to plug-in vehicles. It also covers vehicle diagnostics, charging stations and charging diagnostics specific to this platform, as well as service and diagnosis.
Prerequisites:	<ul style="list-style-type: none"><li>• AMST1101</li><li>• AMST1112</li></ul>
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol style="list-style-type: none"><li>1. Exhibit and demonstrate all safety precautions.</li><li>2. Demonstrate knowledge of the unique operation of electric vehicles compared to internal combustion vehicles.</li><li>3. Correctly perform complex vehicle diagnostics unique to electric vehicles.</li><li>4. Demonstrate knowledge and perform tests on the heating and air conditioning systems unique to electric vehicle platforms.</li><li>5. Correctly diagnose and repair three-phase electric drive motors.</li><li>6. Demonstrate understanding and diagnosis of power inverters and converters unique to electric vehicle platforms.</li><li>7. Correctly perform insulation testing and diagnosis.</li><li>8. Conduct a proper diagnosis of charging-related concerns.</li></ol>
MnTC goal areas:	None

\*Can be taking as a Prerequisite or Corequisite.