

AT 210 - HYBRID TECHNOLOGY

Course Description

This course provides a comprehensive systems overview of the operating principles, maintenance, and service of hybrid electric vehicles. Group 2 course.

Credit Hours

4

Contact Hours

6

Lecture Hours

2

Lab Hours

4

Required Prerequisites

AT 130 or Certification in Electrical and Engine Tune Up.

General Education Outcomes supported by this course

Critical Thinking - Direct

Course Learning Outcomes

Knowledge:

- Identify various hybrid systems and their components including related high voltage safety concerns.

Application:

- Apply problem solving strategies to resolve issues with various hybrid systems.

Integration:

- Demonstrate through simulations and case studies the repair of various hybrid systems.
- Demonstrate repair strategies for various hybrid systems through simulations and case studies.

Human Dimension:

- Work collaboratively to diagnose needed repairs on hybrid systems.

Caring - Civic Learning:

- Safely repair hybrid systems to protect themselves and others.

Learning How to Learn:

- Demonstrate mastery of hybrid systems concepts as tested by the State of Michigan.