

Automotive Technology 7th Edition

Chapter 90 – EV and PHEV Charging

Lesson Plan



CHAPTER SUMMARY:

1. Plug-In Hybrid Electric Vehicles, Electric Vehicles, Level 1 Charging, Level 2 Charging, and Level 3 Charging
2. Owning and Charging an EV

OBJECTIVES:



1. Describe plug-in hybrid electric vehicles (PHEVs).
2. Explain how the high-voltage batteries are recharged in an electric vehicle (EV), including battery capacity, and range correlation.
3. Discuss Level 1 charging.
4. Discuss Level 2 charging.
5. Discuss Level 3 charging.
6. Discuss owning and charging an electric vehicle (EV).

RESOURCES: (All resources may be found at jameshalderman.com)



1. Task Sheet: Plug-In Vehicle Charging
2. Task Sheet: Plug-In Vehicle Charging Diagnosis
3. Crossword Puzzle and Word Search
4. Chapter PowerPoint
5. Videos: [\(L3\) Light Duty Hybrid Electric Videos](#)
6. Animations: [\(L3\) Light Duty Hybrid Electric Animations](#)

ACTIVITIES:



1. Task Sheet: Plug-In Vehicle Charging
2. Task Sheet: Plug-In Vehicle Charging Diagnosis
3. Crossword Puzzle and Word Search

ASSIGNMENTS:



1. Chapter crossword and word search puzzles from the website.
2. Complete end of chapter quiz from the textbook.
3. Complete multiple choice and short answer quizzes downloaded from the website.

CLASS DISCUSSION:



1. Review and group discussion chapter [Frequently Asked Questions](#) and [Tech Tips](#) sections.
2. Review and group discussion of the five (5) chapter [Review Questions](#).

NOTES AND EVALUATION:

