

Electric & Hybrid Electric Vehicles 1st Edition

Chapter 12 – EV and PHEV Charging

Lesson Plan



CHAPTER SUMMARY:

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

OBJECTIVES:



1. Identify a plug-in hybrid electric vehicle (PHEV).
2. Explain how the high-voltage batteries are recharged in a PHEV and EV vehicle.
3. Discuss range anxiety, battery capacity, and range correlation of an EV.
4. Explain the safety precautions using Level 1, Level 2, and Level 3 charging.

RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))



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

ACTIVITIES:



1. Task Sheet: Plug-In Vehicle Charging
2. Task Sheet: Plug-In Vehicle Charging Diagnosis

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:

