**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

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**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](https://jameshalderman.com/l3_vid_lib_page/)

6. Animations: [(L3) Light Duty Hybrid Electric Animations](https://jameshalderman.com/l3_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Plug-In Vehicle Charging

2. Task Sheet: Plug-In Vehicle Charging Diagnosis

3. Crossword Puzzle and Word Search

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**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.

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**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.

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**NOTES AND EVALUATION:**

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