**Automotive Technology 7th Edition**

**Chapter 88 – Hybrid and Electric Vehicle Maintenance**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Routine Service Procedures, and Placing the Hybrid Vehicle in Maintenance Mode

2. Oil and Filter Change and Engine Maintenance, and Braking System Service

3. Related Maintenance Items, and Diagnosis Procedures

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**OBJECTIVES:**

1. Describe routine service procedures for both hybrid and electric vehicles.

2. Explain how to place a hybrid vehicle in maintenance mode.

3. Describe an oil and filter change and engine maintenance on a hybrid vehicle.

4. Explain how to service the base brake system on a hybrid or electric vehicle.

5. Discuss related maintenance items including battery air filter, A/C service, tires, auxiliary battery, and steering systems.

6. List diagnostic procedures for hybrid and electric vehicles. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: EV and HEV Preventative Maintenance

2. Task Sheet: HEV Test and Replace Coolant

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: EV and HEV Preventative Maintenance

2. Task Sheet: HEV Test and Replace Coolant

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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