**Automotive Technology 6th Edition**

**Chapter 92 –** **Hybrid High-Voltage Batteries**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Hybrid auxiliary batteries and hybrid and electric vehicle high-voltage batteries

2. Nickel-metal hydride batteries and lithium-ion high voltage batteries

3. High-voltage battery and disconnect location and other high-voltage battery types

4. Battery comparison, high-voltage battery monitor, and out-of-vehicle HV battery service

5. High-voltage battery charging and high-voltage battery safety precautions

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**OBJECTIVES:**

1. State the purpose of the auxiliary battery in a hybrid vehicle.

2. Explain the types of high-voltage batteries used in most hybrid electric vehicles.

3. Describe the purpose of the high-voltage battery monitor.

4. List the steps for servicing a high-voltage battery.

5. Discuss high-voltage battery charging and safety precautions.

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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>) Internet access required to hyperlink.

1. Chapter PowerPoint

2. Chapter Crossword Puzzle and Word Search

3. Videos: [(L3) Light Duty Hybrid Electric Videos](https://jameshalderman.com/l3_vid_lib_page/)

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

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**ACTIVITIES:**

1. Have students visit a shop that maintains and repairs high voltage hybrid electric vehicles.

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**ASSIGNMENTS:**

1. Chapter crossword and word search puzzles.

2. Complete end of chapter 10 question quiz.

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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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