**Automotive Engines Theory and Servicing 10th Edition**

**Chapter 3 – Environmental and Hazardous Materials**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Hazardous Waste, Federal and State Laws, Asbestos Hazards, Used Brake Fluid, and Used Oil

2. Solvents, Coolant Disposal, Lead-Acid Battery Waste, and Fuel Safety and Storage

3. Airbag Handling, Used Tire Disposal, and Air-Conditioning Refrigerant Oil Disposal

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**OBJECTIVES:**

1. Identify hazardous waste materials in accordance with federal and state laws.

2. Discuss asbestos hazards and asbestos handling guidelines.

3. Explain the storage and disposal of brake fluid, used oil, coolants, lead-acid batteries, used tires, and air-conditioning refrigerant oil.

4. Explain the characteristics of hazardous solvents, fuel safety and storage, and airbag handling.

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

1. Task Sheet: Safety Data Sheets (SDS)

2. Chapter PowerPoint

3. [Crossword Puzzle and Word Search](https://jameshalderman.com/a0_puzzles_lib_page/) (A0)

4. [Videos: (A0) Automotive Fundamentals](https://jameshalderman.com/a0_vid_lib_page/)

5. [Animations: (A0) Automotive Fundamentals](https://jameshalderman.com/a0_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Safety Data Sheets (SDS)

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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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