**Advanced Engine Performance Diagnosis 7th Edition**

**Chapter 5 –** **Gasoline Engine Systems**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Engine Construction, Engine Parts and Systems, and Four-Stroke Cycle Operation

2. Engine Measurement, Horsepower and Torque, and Superchargers and Turbochargers

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**OBJECTIVES:**

1. Describe engine construction, parts, and systems.

2. Explain how a four-stroke cycle gasoline engine operates.

3. Describe how engine size and compression ratio are measured.

4. Define torque and horsepower.

5. Explain the purpose and function of superchargers and turbochargers.

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

1. Task Sheet: Gasoline Engine Identification

2. Task Sheet: General Engine Specifications

3. Chapter PowerPoint

4. [Crossword and Word Search Puzzles (A8)](https://jameshalderman.com/a8_puzzles_lib_page/)

5. [Crossword and Word Search Puzzles (A1)](https://jameshalderman.com/a1_puzzles_lib_page/)

6. [Videos: (A1) Engine Repair](https://jameshalderman.com/a1_vid_lib_page/)

7. [Animations: (A1) Engine Repair](https://jameshalderman.com/a1_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Gasoline Engine Identification

2. Task Sheet: General Engine Specifications

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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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