**Automotive Technology 7th Edition**

**Chapter 81 – Positive Crankcase Ventilation and Secondary Air-Injection Systems**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Crankcase Ventilation, PCV System Diagnosis, and Secondary Air-Injection System

2. Secondary Air-Injection System Diagnosis

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**OBJECTIVES:**

1. Describe the purpose and function of the positive crankcase ventilation (PCV) system.

2. Discuss PCV system diagnosis.

3. Explain the purpose and function of the secondary air-injection (SAI) system and how to diagnose faults in the system.

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

1. Task Sheet: PCV System Inspection

2. Task Sheet: PCV System Diagnosis

3. Task Sheet: Secondary AIR Injection Diagnosis

4. Task Sheet: AIR Pump Component Inspection

5. Task Sheet: AIR Pump Electrical Component Inspection

6. Crossword Puzzle and Word Search

7. Chapter PowerPoint

8. Videos: [(A8) Engine Performance Videos](https://jameshalderman.com/a8_vid_lib_page/)

9. Animations: [(A8) Engine Performance Animations](https://jameshalderman.com/a8_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: PCV System Inspection

2. Task Sheet: PCV System Diagnosis

3. Task Sheet: Secondary AIR Injection Diagnosis

4. Task Sheet: AIR Pump Component Inspection

5. Task Sheet: AIR Pump Electrical Component Inspection

6. 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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