Advanced Engine Performance Diagnosis 8th Edition Chapter 15 – Variable Valve Timing and Displacement Systems Lesson Plan



CHAPTER SUMMARY:

- 1. Variable Valve Timing, Diagnosis of Variable Valve Timing
- 2. Variable Valve Timing and Lift Electronic Control and Variable Displacement Systems
- 3. Variable Displacement System Diagnosis

OBJECTIVES:



- 1. Explain the purpose and function of variable valve timing (VVT).
- 2. List the steps involved when diagnosing a (VVT) system.
- 3. Describe how a variable valve timing and lift electronic control VTEC) system works.
- 4. Explain the operation of variable displacement systems.
- 5. Explain the diagnosis of variable displacement systems.



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

- 1. Task Sheet: Variable Valve Timing Identification
- 2. Task Sheet: Variable Valve Timing System Diagnosis
- 3. Chapter PowerPoint
- 4. Crossword and Word Search Puzzles
- 5. Videos: (A1) Cylinder Head and Valve Train Diagnosis and Repair
- 6. Animations: (A1) Cylinder Head and Valve Train Diagnosis and Repair

DEMO

ACTIVITIES:

- 1. Task Sheet: Variable Valve Timing Identification
- 2. Task Sheet: Variable Valve Timing System Diagnosis



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.



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.



NOTES AND EVALUATION:

