Automotive Technology 7th Edition Chapter 68 – Ignition System Parts and Operation Lesson Plan

CHAPTER SUMMARY:



- 1. Ignition System, Ignition Coils, Ignition Switching and Triggering, and Ignition System Operation
- 2. Waste-Spark Ignition Systems, Coil-On-Plug Ignition, Ignition Timing, Knock Sensors, and Spark Plugs

OBJECTIVES:



- 1. Discuss ignition systems.
- 2. Discuss ignition coils.
- 3. Discuss ignition switching and triggering.
- 4. Describe ignition system operation.
- 5. Describe the operation of waste-spark ignition systems.
- 6. Describe the operation of coil-on-plug ignition systems.
- 7. Discuss ignition timing.
- 8. Discuss knock sensors.
- 9. Describe the different types of spark plugs.



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

- 1. Task Sheet: Ignition System Identification
- 2. Task Sheet: Spark Plug Specifications
- 3. Chapter PowerPoint
- 4. Crossword Puzzle and Word Search
- 5. Videos: (A8) Engine Performance Videos
- 6. Animations: (A8) Engine Performance Animations

DEMO

ACTIVITIES:

- 1. Task Sheet: Ignition System Identification
- 2. Task Sheet: Spark Plug Specifications
- 3. Crossword Puzzle and Word Search



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:

