Automotive Heating and Air Conditioning 9th Edition Chapter 14 – A/C Inspection, Performance Testing, and Leak Detection Lesson Plan

CHAPTER SUMMARY:



- 1. Inspection, HVAC System Inspection, and A/C Service Ports
- 2. A/C Performance Test and Leak Detection

OBJECTIVES:



- 1. Prepare for the ASE Heating and Air Conditioning (A7) certification test content area "A" (A/C System Service, Diagnosis, and Repair).
- 2. Describe the eight-step diagnostic procedure for an A/C system.
- 3. Explain how to perform a visual inspection of an A/C system.
- 4. Discuss how to perform an A/C performance test.
- 5. Describe how to determine the root cause of the problem in an A/C system.

**

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

- 1. Task Sheet: A/C Performance Test
- 2. Task Sheet: Leak Test the Air Conditioning System
- 3. Task Sheet: Inspect the A/C Condenser for Proper Airflow
- 4. Chapter PowerPoint
- 5. Crossword Puzzle and Word Search (A7)
- 6. Videos: (A7) Heating & Air Conditioning
- 7. Animations: (A7) Heating & Air Conditioning

ACTIVITIES:



- 1. Task Sheet: A/C Performance Test
- 2. Task Sheet: Leak Test the Air Conditioning System
- 3. Task Sheet: Inspect the A/C Condenser for Proper Airflow

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 <u>Frequently Asked Questions</u> and <u>Tech Tips</u> sections.
- 2. Review and group discussion of the five (5) chapter Review Questions.

NOTES AND EVALUATION:



