Automotive Technology 7th Edition Chapter 60 – Heating and Air-Conditioning Principles Lesson Plan

CHAPTER SUMMARY:

- 1. HVAC, Heating and Cooling Load, Heat Movement, and Air-Conditioning Process
- 2. Purpose of an HVAC System

OBJECTIVES:



- 1. Discuss automotive heating, ventilation, and air-conditioning systems, including changes of state, the effects of heat on matter, and humidity.
- 2. Explain heating and cooling load.
- 3. Explain the three ways in which heat flows.
- 4. Describe the air-conditioning process.
- 5. Explain the purpose of an HVAC system.



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

- 1. Task Sheet: A/C Component Identification
- 2. Task Sheet: A/C Component Purpose and Function
- 2. Chapter PowerPoint
- 3. Crossword Puzzle and Word Search
- 4. Videos: (A7) Heating & Air Conditioning Videos
- 5. Animations: (A7) Heating & Air Conditioning Animations



ACTIVITIES:

- 1. Task Sheet: A/C Component Identification
- 2. Task Sheet: A/C Component Purpose and Function
- 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:

NOTES AND EVALUATION:

- 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.

