**Automotive Technology 7th Edition**

**Chapter 65 – Refrigerant Recovery, Recycling, and Recharging**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Safety First, SAE J Standards, Refrigerant Identification, A/C Servicing, and Refrigerant Recovery

2. Recycling Refrigerant, Flushing an A/C System, Replacing Components, and Inline Filter

3. Evacuating the System, Recharging the System, and Sealants and Stop Leaks

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**OBJECTIVES:**

1. Explain A/C service safety practices.

2. Explain SAE J standards.

3. Discuss the procedure for identifying refrigerants in an A/C system.

4. Describe the steps involved in A/C servicing.

5. Explain the procedure for refrigerant recovery.

6. Explain the procedure for recycling refrigerant.

7. Discuss the purpose of flushing an A/C system.

8. Describe component replacement including in-line filter and refrigerant oil.

9. Explain the procedure for evacuating an A/C system.

10. Explain the procedure for recharging an A/C system.

11. Discuss sealants and stop leaks. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Recycle Refrigerant

2. Task Sheet: Refrigerant Handling Equipment

3. Task Sheet: Refrigerant Identification/ Read Pressures

4. Task Sheet: Evacuate and Charge A/C System

5. Chapter PowerPoint

6. Crossword Puzzle and Word Search

7. Videos: [(A7) Heating & Air Conditioning Videos](https://jameshalderman.com/a7_vid_lib_page/)

8. Animations: [(A7) Heating & Air Conditioning Animations](https://jameshalderman.com/a7_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Recycle Refrigerant

2. Task Sheet: Refrigerant Handling Equipment

3. Task Sheet: Refrigerant Identification/ Read Pressures

4. Task Sheet: Evacuate and Charge A/C System

5. 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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