

Automotive Technology 6th Edition

Chapter 10 – Power Tools and Shop Equipment

Lesson Plan



CHAPTER SUMMARY:

1. Air compressor, air, and electrically operated tools
 2. Trouble lights
 3. Bench/pedestal grinder and bench vise
 4. Hydraulic presses, portable crane, chain hoist, and engine stands
 5. Care and maintenance of shop equipment
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OBJECTIVES:

1. Describe the purpose of the air compressor, and other air and electrically operated tools.
 2. Compare the different types of trouble lights.
 3. Describe the purpose of the bench/pedestal grinder and the bench vise.
 4. Discuss the purpose of hydraulic presses, portable crane and chain hoist, and engine stands.
 5. Describe proper care and maintenance of shop equipment.
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RESOURCES: (All resources may be found at <http://www.jameshalderman.com>)

1. **Task Sheet:** Power and Shop Equipment Safety Survey
 2. **Task Sheet:** Oxy-Acetylene Torch Usage
 3. Chapter PowerPoint
 4. Chapter Crossword Puzzle and Word Search
 5. Animations: Hydraulic Press
 6. Videos: Air Tools and Compressor (time 12:47)
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ACTIVITIES:

1. **Task Sheet:** Have students complete Power and Shop Equipment Survey Task Sheet.
 2. **Task Sheet:** Have students complete Oxy-Acetylene Torch Usage Task Sheet.
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ASSIGNMENTS:

1. Chapter crossword and word search puzzles.
 2. Complete end of chapter 10 question quiz.
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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:
