

# Automotive Technology 6<sup>th</sup> 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>) Internet access required to hyperlink.

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. Videos: [\(A0\) Automotive Fundamentals Videos](#)
  6. Animations: [\(A0\) Automotive Fundamentals Animations](#)
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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:**

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