

# Automotive Technology 6<sup>th</sup> Edition

## Chapter 9 – Hand Tools

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Wrenches, ratchets, sockets, and extensions
  2. Screwdrivers, hammers, mallets, and pliers
  3. Cutters, punches, chisels, removers, and hacksaws
  4. Specialty tools, safety tips, and hand tool maintenance
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#### **OBJECTIVES:**

1. Compare the different types of wrenches.
  2. discuss the purpose of ratchets, sockets, and extensions, and screwdrivers.
  3. discuss the purpose of hammers, mallets, and pliers. Explain the characteristics of cutters, punches, chisels, removers, and hacksaws.
  4. list the basic tools a service technician should possess.
  5. describe the purpose of specialty tools such as seal pullers, seal drivers, and electrical hand tools.
  6. discuss the safety tips for using hand tools and hand tool maintenance.
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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>)

1. **Task Sheet:** Hand Tool Identification
  2. Chapter PowerPoint
  3. Chapter Crossword Puzzle and Word Search
  4. Animations: Channel Locks, Dykes and Screwdriver Selection
  5. Animations: Seal Driver and Slip Joint Pliers
  6. Animations: Snap Ring Pliers and Lineman Pliers
  7. Animations: Open End Wrench and Vise Grips and 6 and 12 Point
  8. Animations: Gear Wrench
  9. Videos: Essential Tools (time 13:24)
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#### **ACTIVITIES:**

1. **Task Sheet:** Have students complete Hand Tool Identification 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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