



Division of Technology  
**AUTOMOTIVE TECHNOLOGY**  
**UPDATED TOOL LIST**  
**Cost Estimate 2010 - 2011**

**Students enrolling in Automotive Technology are required to purchase the tools listed below and a tool box with lock and two sets of keys. FHTC has engraving tools available to mark your equipment.**

1. Drop light with 50 foot cord and fluorescent light bulb
2. Mechanic creeper
3. Thread and bolt size gauges for metric and standard bolts
4. 3/8" Drive set to include the following:
  - 6/12pt. Sockets shallow 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1"
  - 6/12pt. Sockets deep well 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1"
  - Drive universal or Flex sockets 6/12pt. to include the following: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16
  - 3/8 Drive spark plug socket 5/8, 13/16
  - 1-3/8 drive flex head ratchet, drive extension bar 6" long, drive extension bar 8" long, drive finger ratchet
5. 1/2" drive ratchet standard length  
1/2" drive extensions 2", 5", and 10"  
1/2" drive breaker bar  
1/2" drive universal joint
6. 1/2" drive deep well socket set 6/12pt to include 3/8, 7/16, 1/2, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4"  
1/2" drive shallow socket set 6/12 pt. to include 3/8, 7/16, 1/2, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4"
7. 1/4 drive socket set to include the following:
  - 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, socket ratchet, t-handle screwdriver handle packed in steel or plastic box
8. Combination end wrenches to include the following:
  - 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4"
9. Metric combination wrenches 6 through 22 millimeter
10. Metric line wrenches to include 8mm through 18mm
11. 3/8 drive metric deep well socket set 6/12pt to include 6mm through 21mm
12. 3/8 drive metric sockets 6/12pt to include 6mm through 21mm
13. 1/4 drive 6/12 point deep and shallow metric sockets to include 4 mm through 14 mm
14. 1/2 drive 6/12 point deep well sockets to include 10 mm through 36 mm
15. Line or flare nut combination wrenches to include 3/8, 7/16, 1/2, 9/16, 5/8, 11/16
16. Allen wrenches to include 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
17. Metric Allen wrenches to include 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm
18. Screwdriver set to include 2 standard tips with approximately 4" and 6" blade, 1 stubby with a 1 1/2 " blade, 3 Phillips head with #1, #2, #3 tips, 1 stubby Phillips with a #2 tip
19. Side cutting or diagonal type pliers minimum length 7"
20. Needle nose pliers minimum length 7", with 90° needle nose pliers minimum length 6 5/8", channel lock plier minimum length 10", standard pliers minimum 6", vice grip pliers minimum 8"
21. Feeler gauge – 25 blade
22. Spark plug gauge – round type
23. 16oz. and 40oz. ball pin hammer and 14oz plastic tip hammer
24. Punches and chisels – 1 universal punch minimum length 10", 1 center punch, 2 pin punches 1/8", 1/4", 1 combination aligning punch and pry bar, 2 flat cold chisels 3/8 and 3/4, bronze drift punch 13/16 x 12, roll pin punch set to include 1/16, 5/64, 3/32, 1/8, 3/16, 7/32, 5/16
25. Gasket scraper minimum 1" blade width
26. 12" rule, 12 ft. steel tape
27. Files; one 10" rat tail w/handle and one 12" mill bastard w/ handle
28. Door trim pad removing tool and door handle and window lift remover
29. Brake adjusting tool (spoon), brake spring pliers, brake retainer tool, disc brake pad spreader, brake bleeding wrenches 1/4", 5/16", 3/8", 8mm, 9mm, and 10mm
30. Safety glasses
31. 1 battery terminal cleaner, 1 battery cable clamp puller
32. Pocket screwdriver and magnet
33. 1 hacksaw
34. 1 flex handle mirror
35. Distributor wrench 1/2", 9/16", 13 mm and 14 mm
36. Tire pressure gauge 1-100 PSI
37. Automotive digital multi-meter
38. Snap-ring pliers – internal, external, and flatnose type.
39. 4-Wheel drive spindle nut socket
40. 1 non-powered test light
41. oil filter wrenches
42. Torx tip screw drivers 310, 415, 420, 425, 427, 530
43. 2 fender covers
44. Adjustable wrenches to include 8", and 12"
45. Remote starter switch
46. O-ring hook and pick set
47. Tool box with lock

**OPTIONAL TOOLS:** 3/8" drive air ratchet, 1/2" drive air impact gun, and 1/2" drive impact socket set

\*The cost quoted is approximate and may differ according to supplier.

5-26-10

**Cost Estimate of Tools - \$2000.00\***