

Automotive Technology

Required Tools List

All students are required to have their own personal tool set from the following list to use for classroom/lab projects **prior to the beginning of the semester. Estimated tool cost: \$4,657. (Snap-On estimate)**

WITCC does not recommend a particular vendor; the College only suggests that you purchase commercial quality tools. For more information, please feel free to contact:

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Tool Box

- 40" x 19" (minimum) rolling lower tool cabinet with at least one full-length drawer

Safety Items

- Safety glasses (meets Z87 specs)
- Dust mask

1/4" Drive 6 point Socket Set

- 3/16" through 1/2"
- 5.5mm through 14mm
- Extensions
- Ratchet
- Universal joint
- Metric and standard deep

3/8" Drive 6 point Socket Set

- 1/4" through 7/8"
- 10mm through 19mm
- Ratchet
- Flex-head Ratchet
- 5/8" and 13/16" spark plug sockets
- Universal joint
- Extensions 3", 6", and 12"
- 3/8" through 15/16" deep
- 10mm through 19mm deep

1/2" Drive 6 point Socket Set

- 1/2" through 1" shallow
- 13mm through 24mm shallow
- Ratchet
- 24" breaker bar
- Extensions: 3", 6", and 12"

Combination Wrench Set

- Standard size 12 pt. 1/4" through 1"

- Metric sizes 12 pt. 7mm through 19mm

Allen Socket Set

- Metric
- Standard

Screwdriver Set

- 8-piece standard set and Phillips set
- Pocket screwdriver

Specialty Tools

- Brake spring removal tools
- Brake adjusting spoon
- Transmission lip-seal installer
- Battery post cleaner
- Ignition spark tester (ST-125)
- Stethoscope
- Digital multimeter Fluke 73, 78, 87, or 88

Pliers

- 16" channel lock
- 6" diagonal cutting pliers
- 8" needle-nose
- 6 3/4" slip joint
- 10" vise grip or set

Additional Hand Tools

- 16 oz. ball-peen hammer
- 32 oz. dead-blow hammer
- 12-piece punch & chisel set
- Gasket scraper
- Feeler gauge set .0015 through .025
- 4-piece pick set
- 3-piece pry bar set
- Spark plug gapper
- Flashlight
- 12" florescent trouble light
- 6" dial caliper
- Computer-safe 12 volt test light
- Wire connector terminal removal tool
- Small butane mini-torch
- Wire crimping/stripper pliers tool
- 1/2" torque wrench (up to 250 ft.)
- 3/8" torque wrench (5 to 75 foot lbs.)

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- Hand-held thermometer
- 5-piece fixed tip inside/outside snap ring pliers
- A/C-fuel line removal tool
- Schrader valve removal tool
- Compression tester
- Radiator hose removal pick
- Torx bit socket set (T10 to T60)
- Extendable pocket magnet
- Tire gauge tester and air chuck
- Extendable mirror
- Vacuum gauge
- Soft-tip blow gun

Miscellaneous Items

- Tape measure
- Calculator
- Fender cover
- Utility knife