

Automotive Tool List and Textbook Requirements:

Students are required to purchase the tools listed below to participate in automotive courses.

- The initial set and a hand-carry toolbox or tool bag is required at the start of the program.
- Additional tools are required at the start of the summer internship, course AU131.
- A Digital Multi-meter will be required when attending *AU132 Electricity & Electronics*. (Please refer to the AU132 Electricity & Electronics course syllabus for the correct meter to purchase).

Please direct any questions regarding tools to: Associate Professor, Marc Gilbert at marc.gilbert@sunycgcc.edu or call 518-697-6481.

1/4" Drive

- o 1/4" Drive Deep Sockets 6 pt. 5mm-15mm
- o 1/4" Drive Shallow Sockets 6 pt. 5mm-15mm
- o 1/4" Drive Ratchet
- o 1/4" Drive Universal Joint Socket
- o 1/4" Drive 2" Extension
- o 1/4" Drive 4" Extension
- o 1/4" Drive Socket Handle Driver

3/8" Drive

- o 3/8" Drive Shallow Socket Set 6 pt. 8mm-19mm
- o 3/8" Drive Deep Socket Set 6 pt. 8mm-19mm
- o 3/8" Drive 8mm Hex Driver
- o 3/8" Drive Ratchet
- o 3/8" Drive 5/8 Spark Plug Socket
- o 3/8" Drive Universal Joint Socket
- o 3/8" Drive 3" Extension
- o 3/8" Drive 6" Extension
- o 3/8" Drive T45 TORX®
- o 3/8" Drive T50 TORX®
- o 3/8" Drive T40 TORX®
- o 3/8" Drive 10mm Hex Driver

1/2" Drive

- o 1/2" Drive Ratchet, Long Handle, 16" or 24"
- o 1/2" Drive Flip Socket Set 3/4", 13/16", 19mm, 21mm

Wrenches

- o Wrench, 12" Adjustable
- o Wrench Set 10 pc. Combination 10mm-19mm

Pliers

- o Pliers, Combination
- o Pliers Adjustable Joint
- o Pliers Needle Nose With Cutter
- o Pliers 6" Locking Needle Nose

Screwdrivers

- o Screwdriver 4" Slotted
- o Screwdriver 6" Slotted
- o Screwdriver #1 Phillips
- o Screwdriver #2 Phillips
- o Screwdriver, Handle T15 TORX®
- o Screwdriver Ratcheting

Specialty Tools

- o Brake Shoe Hold Down Tool
- o Valve Core Tool
- o Brake Shoe Spring Tool

Measurement

- o Spark Plug Gap Gauge
- o Tread Depth Gauge
- o 6" Steel Pocket Rule
- o Tire Pressure Gauge
- o Feeler Gauges .0015"- .035"/ with metric equivalent
- o Brake Lining Thickness Gauge

Miscellaneous

- o Safety Glasses
- o Magnetic Pickup Tool
- o Shop light, Multi LED
- o Fender Covers, Two
- o Hammer, 16oz. Ball Peen

- Battery Terminal Brush
- Wire Stripper/Cutter AWG 10 to 20
- Toolbox, Portable
- Gasket Scrapers, Non-Marring
- Inspection Mirror
- Thermometer, Analog, Pocket

DVOM Digital Volt Ohm Meter - Auto Range **

- Fluke 17B+
- Pro Diagnostic 7002605 (NAPA)

** Prior to purchasing DVOM not listed,
please check with your instructor.

Note: Student discounts available at Tekton.com and Sktools.com (scroll to bottom of their homepage for link)

Required Textbook: NOTE: Textbook will be needed by the first day of classes!

Automotive Technology Principles, Diagnosis, and Service - 7th edition by James Halderman

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