



Automotive Technology – Required Tools 2021

Safety glasses will be required the first day of lab. You can purchase them wherever you like.

Work Shoes with leather uppers and rubber soles (steel toe recommended)

NCC t-shirts, uniform. \$30 for 3 shirts, See Program Coordinator

Tool Storage

- Small roll cabinet – not to exceed 34" in length

Ratchets and Sockets

- ¼" drive ratchet
- ¼" drive metric socket set (shallow) (5-14mm required)(6 point)
- ¼" drive metric socket set (deep) (5-14mm required) (6 point)
- ¼" drive ratchet and extensions (2", 4", 6" minimum)
- ¼" driver handle
- ¼" drive swivel adapter
- 3/8" drive ratchet
- 3/8" drive extensions (3", 6", 12" minimum)
- 3/8" drive metric socket set (shallow) (8 – 19mm required) (6 point)
- 3/8" drive metric socket set (deep) (8 – 19mm required) (6 point)
- 3/8" drive swivel adapter
- 3/8" drive breaker bar
- Spark plug socket 13/16"
- Spark plug socket 5/8"
- Spark plug socket 14mm
- ½" drive ratchet
- Extensions (3", 5", 10" minimum)
- ½" drive swivel adapter
- ½" drive shallow socket set – metric (12mm – 24mm minimum) (6 point)
- ½" drive metric (chrome) socket set (deep) (6 point)
- ½" drive breaker bar
- ½" drive metric impact socket set (deep) (6 point)
- Torx bit set for ¼" and 3/8" drive extended length (10t to 55t)
- Metric Allen Bit set

Wrenches

- Metric combination wrench set (8mm – 24mm suggested) Not ratcheting, 12 point
- Fractional flare nut wrench set (¼" – 13/16")
- Metric flare nut wrench set (9mm – 21mm)
- 8" adjustable wrench

Brakes

- Drum brake service kit
- Rotor Micrometer Metric
- Brake pad thickness measuring tool

Hammers

- Dead blow Ball-peen hammers (36 oz required)
- Dead blow hammer (36 oz.)
- Plastic hammer

Test Equipment

- Digital volt-ohmmeter – Fluke 88-5A kit
- 12-volt test light ignition spark tester (able to test coil over ignition systems)
- Tape Measure US and Metric

Screwdrivers, ETC.

- Tire valve core tool (handle type preferred)
- Screwdriver set (to include blade and phillips)
- Magnetic pick-up tool
- Angled pry bar with handle (18" minimum)
- Inspection mirror
- Hose removal pick
- Small pick set

Pliers

- Needle-nose pliers
- Diagonal pliers (wire cutters)
- Combination pliers
- Channel-lock pliers
- Large 16" minimum channel lock pliers
- Wire crimper/stripper pliers
- Vise grip plier set (including needle nose)
- Snap ring plier set (inner and outer) (Plier sets preferred over pliers with replaceable bits)

Other

- Feeler gauge set, straight metric
- Feeler gauge set, bent metric
- Spark plug gap tool/s
- Tire pressure gauge/inflator (all in 1 unit)
- Blow gun (OSHA approved)
- Oil filter wrench/s. (pliers and jaw type. No band style)
- Plastic trim tools
- Punch and chisel set
- Flashlight with rechargeable batteries (LED, penlight style)200 lumens and above
- Fender cover
- Hearing protection ear muff style



- Oxy/acetylene welding glasses
- 1/2" drive click type torque wrench
- 3/8" click type torque wrench (1-foot pounds, 1-inch pounds)
- Stethoscope
- 1/2" drive air operated impact wrench
- Tin Snips
- Utility Knife
- 10" mill file with handle
- 10" round file 3/8
- Wire Brush