



## **Automotive Technology – Required Tools 2022**

**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. See Program Coordinator

### **Tool Storage**

- Small roll cabinet – not to exceed 36” 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” drive swivel adapter
- 3/8” drive ratchet
- 3/8” drive flexhead 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
- Spark plug socket 13/16”, 5/8”, 9/16”, 14mm
- ½” drive ratchet
- Extensions (3”, 6”, 12” minimum)
- ½” drive swivel adapter
- ½” drive shallow impact socket set – metric (12mm – 24mm minimum) (6 point)
- ½” drive metric (chrome) socket set (deep) (6 point)
- ½” drive breaker bar
- ½” drive deep impact socket set – metric (12mm – 24mm minimum) (6 point)
- Torx bit set for ¼” and 3/8” drive (T-8 – T-55)
- Torx external set (E-4 – E-18)
- Metric Allen Bit set
- Standard 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 115 kit (optional Fluke 88 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)
- Rolling head prybar
- Inspection mirror
- Hose removal pick
- Small pick set
- Scrapers (plastic and gasket)

### **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 or digital torque wrench
- 3/8” click type or digital torque wrench (1-foot pounds, 1-inch pounds)
- Stethoscope
- 1/2” drive impact wrench
- Utility Knife
- 10” mill file with handle

- 10” round file 3/8
- Wire Brush
- Tread depth gauge
- Battery post cleaner

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