NCC Automotive Technology Tool list by type- Fall 2020

Safety glasses will be required the first day of lab. You can purchase them wherever you like.
NCC auto t-shirts, uniform. 30 for 3 shirts, See Program Coordinator

**Wrenches**
- Metric combination wrench set, long handle, 12 point, none ratcheting (8 – 24mm)
- Standard combo wrench set ¼ to 1 inch, long handle, 12 point, none ratcheting (5/16-1)
- 1/2” drive click type torque wrench 50-250ft. -lbs
- 8” adjustable wrench
- Standard flare nut wrench set (¼” –13/16”)
- Metric flare nut wrench set (9 –21mm)

**Ratchets and Sockets**
- ¼” drive ratchet and extensions 2”, 4”
- ¼” drive metric socket set (shallow) (5.5, 6-14mm) 6 point
- ¼” drive metric socket set (deep) (5.5, 6-14mm) 6 point
- ¼” driver handle
- ¼” drive swivel adapter
- 3/8” drive ratchet and extensions (3”, 6”, 12”)
- 3/8” drive metric socket set (shallow) 6 point (8-19mm)
- 3/8” drive metric socket set, (deep) 6 point (8 –19mm)
- 3/8” drive standard (chrome) socket set 6 point (shallow)
- 3/8” drive swivel adapter
- Torx bit set for ¼” and 3/8” drive (10t to 55t)
- 3/8” drive metric hex key set 2-10mm
- ½” drive ratchet and extensions (5”, 10” suggested)
- ½” to 3/8” adapter, **impact**
- ½” drive swivel adapter, **impact**
- ½” drive metric **impact** socket set, shallow, 6 point 12-24mm
- ½” drive metric **impact** socket set, deep, 6 point 12-24mm
- ½” drive breaker bar
- ½” Impact Gun

**Screw Drivers set**
- Philips, common sizes
- Blade, common sizes
- Pry Bar, 24 inch

**Hammers**
- Ball-peen hammer, 24 oz
- Plastic hammer /soft face

**Pliers**
- Needle-nose pliers
- Diagonal pliers (wire cutters)
- Combination pliers
- Channel-lock pliers
- 16” adjustable joint pliers
- Wire crimper/stripper pliers
- Vise grip plier set (needle nose, small and large sizes)

**Test equipment**
- Fluke 115 multimeter, **minimum**
- Fluke 88 with automotive accessory kit, **suggested**
- 12 volt test light
- Ignition spark tester (able to test coil over ignition systems)

**Other**
- 10” mill file with handle
- 10” round file, rough, 3/8
- Wire brush, rough, 12- 15-inch handle
- Fender cover
- Feeler gauge set, angled standard/metric .0015-.030
- Feeler gauge set, strait standard/metric .0015-.030
- Spark plug gap tool/s
- 9/16 spark plug socket
- 5/8 spark plug socket
- 11/16 spark plug socket
- 13/16 spark plug socket
- Tire valve core tool screwdriver handle type
- Tire air inflation chuck combo, chuck and gauge
- Blow gun (OSHA approved)
- Gasket scraper
- Oil filter wrench/s. must be able to remove various size oil filters
- Magnetic pick-up tool
- LED shop light, rechargeable, 200Lums min
- Hearing protection, ear muff style
- Leather welding gloves
- Oxy/acetylene welding glasses
- Hose removal pick
- Drum brake shoe hold-down spring tool
- Drum brake shoe return spring tool
- Punch and Chicle set
- Clipboard
- Small roll cabinet—not to exceed 34” in length
Removed from required but would be great to have it you can afford them.

3/8" drive standard (chrome) socket set 6 point (deep)

1/2” drive metric, chrome, deep, socket set,
   12-24mm, 6 point, **optional due to impact set**

1/2” drive metric, chrome, shallow, socket set,
   12–24mm, 6 point, **optional due in impact set**

Rubber mallet soft face
Snap ring pliers
3/8" click type torque wrench 5-75 ft-lbs
Small 4 piece pick set