

## 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 6 point  
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 if 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 peice pick set