



## Automotive Technology

### Tools Required First Day of Classes

Estimated Cost: \$4,000-\$10,000

Quantity	Description
Program Required Tools	
	Rollaway tool cabinet with locking drawers (7drawer minimum).
1	Minimum size 36" long, 19" deep x 42" high with minimum 5" wheels.
1	Clear safety glasses (not goggles)
1	Ear Plugs Corded
4	Uniform Shirts purchased from Campus Book Store
1	<b>Optional:</b> Matching top tool chest
1/4 Drive Set to Include:	
1 set	(10 sockets) 6 point (3/16 through 9/16)
1 set	(10 sockets) deep 6 point (3/16 through 9/16)
1	1" extension
1	2" extension
1	4" extension
1	6" extension
1	8" extension
1	10" extension
1	5" ratchet
1	Nut driver handle
1 set	(13 sockets) 6 point metric (5 mm through 14 mm) with 5.5 mm
1 set	(13 sockets) 6 point deep metric (5 mm through 14 mm) with 5.5 mm
1	1/4 universal joint
3/8 Drive Socket Set to Include:	
1 set	6 point sockets (5/16" through 7/8")
1 set	6 point deep sockets (5/16" through 7/8")
1	1" extension
1	3" extension
1	4" extension
1	6" extension
1	8" extension
1	12" extension
1	8" ratchet
1	Universal joint
1 set	Metric socket set 6 point (9 mm through 19 mm)

- 1 set Metric deep sockets 6 point (9 mm through 19 mm)
- 1 Spark plug socket – 5/8”
- 1 Spark plug socket – 9/16”
- 1 Spark plug socket – 13/16”
- 1 Long flex head ratchet – 12” (approx.)
- 1 3' extension (can be 1/2" drive on drive end)

#### **1/2" Drive Set to Include:**

- 1 set 6 point metric sockets (12 mm through 24 mm)
- 1 set 6 point sockets (7/16” through 1 1/8”)
- 1 3” extension
- 1 10” or 12” extension
- 1 10” ratchet
- 1 Flex handle breaker bar 18” (approx.)
- 1 Universal Joint

#### **Wrench Sets:**

- 1 set Combination long metric wrench set (6 mm through 24 mm)
- 1 set Combination long wrench set (1/4 through 1 1/8”)
- 1 set Tubing wrenches 6 point flare nut (1/4 through 13/16)
- 1 set Tubing wrenches 6 point flare nut (9 mm through 21 mm)
- 1 12” Adjustable Wrench (crescent)

#### **Chisel and Punch Sets:**

- 1 **Minimum** 10 Piece Set including 3 Cold Chisels, 3 Pin Punches, 1 Center Punch, and 3 Taper Punches

#### **Combination Screw Driver Set:**

- 1 set Standard tip – 1/4” stubby, through 3/8” x 8” (5 piece set)
- 1 set Phillips tip - #1, #2, #3, and #2 stubby (4 piece set)

#### **Hammers:**

- 1 Ball peen dead blow hammer 32 oz
- 1 Ball peen dead blow hammer 16 oz
- 1 Compothane hammer 32 oz

#### **Battery Tools:**

**Minimum** 5 piece service set including:

- 1 Battery post cleaner (top post type)
- 1 Battery post cleaner (side post type)
- 1 Angle nose pliers
- 1 Cable clamp puller
- 1 Cable clamp spreader pliers

#### **Pliers:**

- 1 12” channel lock
- 1 7” diagonal cutters
- 1 6” or 8” long (needle) nose pliers

- 1 7" slip joint pliers
- 1 Wire stripping pliers with crimper
- 1 "Vise Grip" brand locking pliers 5" model 5WR (no subs)
- 1 "Vise Grip" brand locking pliers 10" model 10WR (no subs)

### **Brake Service Tools:**

**Min. below** (may be supplied as a kit with additional tools)

- 1 Brake hold down spring tool
- 1 Brake adjuster tool
- 1 Brake return spring remover / installer tool
- 1 Brake return spring pliers (may be a combination tool)

### **Miscellaneous Tools:**

- 1 10" to 12" long wire brush
- 1 Tread Depth Gauge
- 1 Tape Measure 12 ft.
- 1 Torx bit set – T8 through T60
- 1 120 PSI Tire pressure gauge
- 1 Air chuck
- 1 Fender cover
- 1 15" to 18" **and** 36" pry bar with plastic handle
- 1 Feeler gauge round spark plug type .035-.080
- 1 Feeler gauge set blade type (.0015-.025)
- 1 Inspection mirror round (extends 10" – 14")
- 1 6" pocket ruler with T bar, stainless steel, decimal equivalents on back
- 1 Gasket scraper / putty knife
- 1 12 volt test light with insulated clip (6' leads) no LED lights
- 1 9 piece metric hex key set 1.5 mm through 10 mm
- 1 Minimum 10 piece std. hex key set 3/32" – 3/8"
- 1 Torque wrench 1/2 dr. 200 ft lb. **Minimum** (click type)\*
- 1 Torque wrench (5 – 75 lb. click type) 3/8" Drive
- 1 Magnetic pick-up tool
- 1 Rubber Tip Blow gun
- 1 Flexible pickup tool – 4 claw type
- 1 12" hacksaw
- 1 10" mill file with handle
- 1 Minimum 4 piece snap ring pliers set (internal/external)
- 1 O-ring pick set (4 piece)
- 1 Adaptors 3/8" dr to 1/2" dr, 1/2" dr to 3/8" dr, 3/8" dr to 1/4" dr
- 1 Ignition spark tester - Adjustable
- 1 Pencil Soldering iron kit 120v 40 watt - (if you supply a butane type soldering iron you need to supply butane to fill the iron so it works right out of the box)
- 1 Tire valve core remover

- 1 Digital calipers 0 to 6"
- 1 3/8" drive std. hex bits (8 pieces) 1/8" – 3/8"
- 1 3/8" drive metric hex bits (7 pieces) 4mm-10mm
- High Quality Multi-meter Minimum Specs: 1000 Volts DC, 750 Volts AC, AC/DC amps-10A, resistance-10 Mega-ohm,
- 1 Frequency- 100khz, Duty Cycle-0 to 99%, Diode test, higher level, additional or added features are acceptable.
- 1 Transmission piston lip seal installer tool (blade type)
- 1 Transmission snap ring pliers (serrated jaws at 90 angle) 9" long
- 1 Mini Mag light
- 2 1/4" NPT Male Air Couplers w/Male threads -Type D

**Supplies required for the Related Welding Course:**

- 1 Welding helmet with #10 lens. Fixed or lift front. Can be auto darkening. Extra lenses. No sharing of welding hoods.
- 1 Welding cap
- Welding cutting goggles with #5 lens. Green-2"x4 1/4" fixed front
- 1 or auto welding hood that goes to a shade 4 or 5 lens for cutting.
- 1 Clear safety glasses
- 1 Ear plugs
- 1 Standard pliers
- 1 Mig welding or needle nose pliers
- 1 Shielded metal arc leather and Gas metal arc leather welding gloves
- 1 Chipping hammer
- 1 Carbon steel wire brush
- Economy 4 1/2" grinder with two 1/4" grinding wheels and 1 wire
- 1 wheel attachment. You can purchase an inexpensive grinder for under \$20 if you currently don't own one.
- 1 Pocket flashlight
- 1 Bucket or bag to haul supplies in. No lockers available in welding lab area.

**PPE required for Related Welding Course:**

- 1 100% cotton long sleeve work shirt. To be worn under your flame-resistant jacket. NO HOODIES
- 1 Flame resistant jacket 100% cotton
- 1 Fitted jeans with no holes or frays
- 1 Leather work boots can be steel toed. No sneakers

Request tool vendor to deliver tools to Northeast  
Community College by August 18, 2025, first day of  
classes.