

Automotive Technology Program Required Tool List

Tools required first day of classes
Estimated Cost: \$4,000-\$10,000

Quantity	Description	Tool Part No.	Price	Check-In
1	Rollaway tool cabinet with locking drawers (7drawer minimum). 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	Optional: 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	36" 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.)			
	1/2" 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			
1	High Quality Multi-meter Minimum Specs: 1000 Volts DC, 750 Volts AC, AC/DC amps-10A, resistance-10 Mega-ohm, 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			
1	Welding cutting goggles with #5 lens. Green-2"x4 1/4" fixed front 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			
1	Economy 4 1/2" grinder with two 1/4" grinding wheels and 1 wire 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 19, 2024, first day of classes.

Tools required on the first day of class in August.