

# Automotive Technology ♦ 2021-2022 Tool List

## 1ST & 2ND-YEAR MANDATORY TOOLS

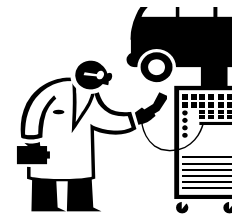
Quantity	ITEM
1 each	<b>Roll</b> Cabinet Tool Box with lock. Min. size 6 drawer or a top/bottom combination - <b>15,000</b> Cubic Inch <b>Enclosed</b> minimum! *Must include Socket and Wrench Tool Box Organizers!*
1 set	Combination wrenches / open-box (1/4" to 1")
1 set	Metric combination wrenches (6mm to 20mm)
1 set	Metric Flair Nut Wrench Set (10mm to 21mm)
1 set	1/4" drive ratchet and 2 or more extensions
1 set	3/8" drive ratchet, 3", 6", 12" extensions
1 set	1/2" drive ratchet w/2 extensions
1 each	1/2" drive breaker bar
1 set	Six-point 1/4" drive metric sockets (5mm to 12mm)
1 set	Six-point 3/8" drive metric sockets (10mm to 19mm)
1 set	Six-point 3/8" drive metric sockets Deep (10mm to 19mm)
1 set	Six-point 1/2" drive metrics sockets (17mm through 24mm - ALL!)
1 each	Brake Lining Thickness Gauge - (Gearwrench #3962 equivalent)
1 each	10/12" Crescent wrench
1 set	Allen wrenches
1 set	Metric allen wrench
1 set	Magnetic pick-up tool
1 each	Tape measure
1 each	6-12" steel ruler (metric and fractional scales)
1 each	Tire Pressure Gauge
1 each	Air chuck (for inflating tires) With type "T" male quick coupler
1 each	Tread Depth Gauge
1 each	Feeler gauges
1 each	Inspection mirror (2" or larger)
1 each	Mini-Mag type or small LED flashlight
1 each	Seal Pick Set with handle - 4 picks (straight, 90, 45, hook)
1 each	Battery Terminal Cleaner (Tapered Brush Type)
1 each	12-volt test light (incandescent type, NOT LED type)
1 each	Rubber tipped blow gun With <b>type "T" male</b> quick coupler
1 each	Tire Valve Core Tool - (Lisle 15190 equivalent)
1 set	Screwdrivers - Standard & Phillips Head, 4 inch length + "Stubby" Must be for mechanical use - NOT for wood screws!
1 set	Punches (~1/8, 1/4, 3/8, 1/2 - starter and pin type)
1 each	Chisel set (~1/4, 3/8, 1/2, 3/4 - 4 different sizes)
1 each	Center punch
1 set	Pinch Pry bars with square shank and plastic handle - 12 & 18/24"
1 each	Ball peen hammer (1 pound)
1 each	Ball peen hammer (2 pound)
1 each	Dead Blow hammer (1 1/2 pound)
1 each	Diagonal cutting pliers
1 each	Pliers (Slip-Joint type)
1 each	Needle nose pliers

## 1ST & 2ND-YEAR MANDATORY TOOLS

Quantity	ITEM
1 each	Channel lock pliers - small (10") and large (15"-17")
1 each	Vice Grip type pliers (small) with "Pipe Grip" jaws
1 each	Vice Grip type pliers (large) with "Pipe Grip" jaws,
2 each	Type "T" male Quick Coupler with 1/4 male NPT threads
1 each	Wire stripper / crimper pliers
1 each	Mechanics Gasket scraper <b>Metal</b> (not a putty knife)
1 each	Mechanics Gasket scraper set <b>Plastic</b> (not a putty knife)
1 each	Automotive Stethoscope - <b>Single</b> center tube only! (Lisle #52750 <b>Kit</b> equivalent)
1 each	Spark plug sockets 5/8" and 13/16"
1 set	3/8 Drive Torx Drive Sockets - Male, <b>T10 thru T70</b>
1 set	3/8 Drive Torx Drive Sockets - Female, <b>E4 thru E24</b>

### MUST HAVES FOR THE FIRST/EVERY DAY OF LABS

1 pair	<b>Leather work shoes or boots</b>
1 pair	<b>Safety glasses (ANSI approved)</b>
1 pair	<b>Mechanic gloves</b>



## 2ND-YEAR MANDATORY/OPTIONAL 1ST-YEAR TOOLS

Quantity	ITEM
1 each	** 10 MEG/OHM Digital Multimeter
1 each	3/8 drive, 10-100 #/ft Torque Wrench
1 each	1/2 in. drive, 50-250 #/ft Torque Wrench
1 each	3/8" air ratchet
1 each	1/2" air gun
1 each	** OBDII - Code Reader
1 each	Spark Tester - (Lisle #50850 equivalent)

\*\* (See Instructor for specifications)

**Mandatory Tools/Supplies**  
(Does not include the cost of textbooks)

**Approximate Total Cost \$2500 - \$3000**  
(Prices subject to change based on price quotes received from the vendors)

**Link for Finding Textbooks & Bookstore Cost**

[www.bookstore.nic.edu](http://www.bookstore.nic.edu)



**North Idaho College**

CAREER AND TECHNICAL EDUCATION ♦ TRADES AND INDUSTRY DIVISION

Physical address: 7064 W. Lancaster Road Rathdrum, ID 83858

Mailing address: 1000 W. Garden Avenue Coeur d'Alene, ID 83814

www.nic.edu