

# Automotive Technology ♦ 2024-2025 Tool List

## 1ST & 2ND-YEAR MANDATORY TOOLS

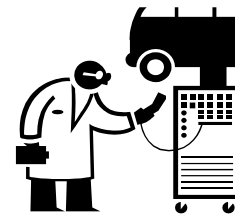
| Quantity  | ITEM |   |
|---|------|---|
| 1   | each | <b>Roll</b> Cabinet Tool Box with lock. Min. size 6 drawer or a top/bottom combination - <b>15,000 Cubic Inch Enclosed minimum!</b><br><b>1300 sq. in. MAXIMUM FOOTPRINT!</b> |
| *Must include Socket and Wrench Tool Box Organizers!* |      |   |
| 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 20mm)   |
| 1   | set  | 1/4" drive ratchet, universal joint, and 2 or more extensions   |
| 1   | set  | 3/8" drive ratchet, universal joint, 3", 6", 12" extensions   |
| 1   | set  | 1/2" drive ratchet, universal joint, and 2 extensions.  |
| 1   | each | 1/2" drive breaker bar (24" minimum)  |
| 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  | Metric allen wrench   |
| 1   | set  | Magnetic pick-up tool   |
| 1   | each | Tape measure - 16-25'   |
| 1   | each | 6-12" steel ruler (metric and fractional scales)  |
| 1   | each | Tire Pressure Gauge   |
| 1   | each | Air chuck (for inflating tires) With <b>type "T"</b> 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"</b> male quick coupler  |
| 1   | each | Tire Valve Core Tool - (Lisle 15190 equivalent)   |
| 1   | set  | Screwdrivers - Standard & Phillips Head, 4 inch length + "Stubby"<br>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 <b>plastic</b> 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!<br>(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 T60</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 | Leather work shoes or boots    |
| 1 | pair | Safety glasses (ANSI approved) |
| 1 | pair | Mechanic gloves                |



## 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)                     |
| 1                                      | set  | Six point 1/2" drive Deep Impact sockets (9/16" thru 1 1/4") |
| 1                                      | set  | Six point 1/2" drive Deep Impact metric sockets (17 thru 24) |
| ** (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)



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