



# AUTOMOTIVE TECHNICIAN REQUIRED TOOL LIST 2024-2025

## REQUIRED TOOL LIST

### 1/4 Inch Drive Sockets Misc.:

Shallow 5.5-14mm (6-point sockets preferred)  
Deep 5.5-14mm (6-point sockets preferred)  
Swivel or universal joint  
Ratchet (flex head optional)  
2" & 6" extension (complete set preferred)

### 3/8 Inch Drive Sockets Misc.:

Shallow 10mm – 21mm (6-point sockets preferred)  
Deep 10mm – 19mm (6-point sockets preferred)  
Swivel or universal joint  
Ratchet (flex head optional)  
1½", 3", 6", and 10" extension (complete set preferred)  
Spark plug sockets: 14 mm, 9/16, 5/8, 13/16

### Screwdrivers:

3 pc. misc. flat blade  
3 pc. misc. Phillips blade

### Wrenches:

Metric combination 8 – 19mm wrench set

### Pliers:

Slip-Joint, Diagonal cutters, Needle nose  
16 in. or 20 in. slip joint pliers  
Regular Vise grips (10")  
Electric repair wire pliers (stripper/crimper)  
Radiator hose clamp pliers (whip-style)

**Tool Box:** A (lockable) rolling tool box should remain on the campus to house and secure all contents with a maximum length of 48 inches.

### Misc. Tools:

4 pc. misc. pry bar set  
12 volt test light  
Basic volt/ohm meter  
Torque Wrench 12.5-250 lb. ft. [digital with torque angle preferred]  
1/2" Impact wrench (air **OR** electric)  
Magnetic rechargeable light: Maxxeon Cyclops  
Brake lining gauge set: Lisle 81850 or similar  
Lug-nut socket set

### Personal Items:

Leather shoes (steel toed not required but offer more personal safety)  
Hearing protection (minimum noise reduction rating (NRR): 20dB)  
Safety glasses (ANSI-Z87 rated eye wear)  
Work shirts: available through the Jackson Campus Bluejay Nest (minimum of 2 required)

### Hammers:

Brass Hammer  
2 or 3 lb. Sledge Hammer

### Torx Sockets:

T8-T60

**Automotive Faculty**

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## SUGGESTED ADDITIONAL TOOL LIST

### **1/4 Inch Drive Sockets Misc.:**

Shallow 3/16 - 9/16 in.  
Deep 3/16 - 9/16 in.

### **3/8 Inch Drive Sockets Misc.:**

Shallow 1/4 - 7/8 inch  
Deep 3/8 - 1 inch  
3/8" to 1/4" reducer  
Flexible Socket Set: 3/8-3/4  
Flexible Socket Set: 10mm-19mm

### **1/2 Inch Drive Sockets Misc.:**

1/2" - 3/8" reducer  
Shallow 10mm - 24 mm (6-point sockets preferred)  
Deep 10 mm - 24 mm (6-point sockets preferred)  
Deep Impact socket set: 13mm-21mm (6-point sockets preferred)  
Shallow 7/16 - 1 1/8 inch  
Deep 7/16 - 1 1/8 inch swivel or universal joint  
Flex handle breaker bar

### **Wrenches:**

Metric flare/line wrench set  
Standard flare/line wrench set  
8 in. & 12 in. adjustable wrench set

### **Misc. Hand Tools:**

Blow gun  
Tire inflator chuck  
Tire pressure gauge  
Tire tread depth gauge (digital tool preferred)  
Standard combination 5/16 - 7/8 in. (optional)  
Standard combination 15/16 - 1 1/8 in. (optional)  
Metric combination wrench 20 - 24mm (optional)  
Spark plug gapping tool  
4 pc. basic hook & pick set  
Gasket scraper (non-pneumatic)  
Brake caliper spreader  
Strong magnetic drain plug removal tool  
Vacuum gauge  
Trim panel service kit (kit should include trim pliers and plastic no scratch pry bars)  
Engine compression tester  
Mechanic's stethoscope  
Magnet  
Radiator hose pick set (Lisle 80380 or the equivalent)