



**ILLINOIS VALLEY  
COMMUNITY COLLEGE**

## IVCC Automotive Department Minimum Required Tool List

The tools listed below are minimum requirements. Students may purchase these tools from any vendor(s) that they want to. Students should check with the automotive instructors to find out how to contact the tool vendors, order their tools, and how much of a discount they can receive from them.

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### Fall 2023/Spring 2024/Summer 2024

#### Screwdrivers - (5 PCS)

- |                       |                         |
|-----------------------|-------------------------|
| 1. 12" Straight Blade | 4. 4" Phillips - #1 Tip |
| 2. 9" Straight Blade  | 5. 6" Phillips - #2 Tip |
| 3. 6" Straight Blade  |                         |

#### Metric Combination Wrench Set - (17 PCS)

1. Metric Combination Wrenches - (8mm - 24mm)

#### 1/4 Drive Metric Socket Set - (Standard and Deep - (6 Point) - (22 PCS)

1. 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm and 14mm Standard depth
2. 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm and 14mm Deep well
3. 1/4" Reversible Ratchet
4. 1/4" - 2" and 4" Extensions
5. 1/4" Universal Joint

#### 3/8" Drive Metric Socket Set -- (Standard and Deep) -- (6 Point) (43 PCS)

1. 8mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm and 19mm Standard Depth
2. 8mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm and 19mm Deep well
5. 3/8" Reversible Ratchet
6. 3/8" - 3", 6" and 12" Extensions
7. 3/8" Universal-Joint

#### Allen/Torx Socket Sets -- Standard and Metric -- (3/8" drive)

1. Standard Set - 1/8", 5/32", 3/16", 7/32", 1/4", 5/16" and 3/8"
2. Metric Set - 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm and 10mm and 12mm)
3. Torx Socket Set - T8, T10, T15, T20, T25, T27, T30, T40, T45, T50, T55 and T60
4. External Torx Set - E4, E5, E6, E7, E8, E10, E12, E14, E16 and E18

#### Hammers - (2 PCS)

- |                     |                             |
|---------------------|-----------------------------|
| 1. 26 oz. Ball Peen | 2. Dead Blow Plastic hammer |
|---------------------|-----------------------------|

### Brake Tools - (3 PCS) – Required for ATO 2200 – Brake Systems

1. Hold Down Spring Tool
2. Return Spring Tools
3. Brake Pad Lining Gauge Set (recommend the Lisle 81850)

### Toolbox & Miscellaneous Tools

1. Toolbox
2. Safety Glasses
3. Scraper - 1" width
4. 3-Jaw Oil Filter Wrench
5. 17mm, 19mm, 21mm, & 22 mm ½" Drive Deep Impact Sockets
6. Pocket flashlight
7. Tire inflator
8. Tire Tread Depth Tool

### Chisels and Punches - (5 PCS)

1. 3/8 Cold Chisel
2. 5/8 Cold Chisel
3. 3/8 Center Punch
4. 1/8 Pin Punch
5. 3/16 Pin Punch

### Feeler Gauges - (2 PCS)

1. Spark Plug Gap Gauge .035" through .080"
2. Feeler Gauge 0.002" through 0.040"

### Spark Plug Sockets - (3 to 6 PCS)

1. 5/8" Spark Plug Socket -- Flexible or Straight
2. 13/16" Spark Plug Socket – Flexible or Straight
3. 9/16" Spark Plug Socket - Flexible or Straight

### Pliers - (5 PCS)

1. 6" Pair Needle Nose Pliers
2. 7" Pair Heavy Diagonal Cutting Pliers
3. 6" All Purpose Pliers
4. 7" Straight Jaw Vise Grip Pliers
5. 10" Slip Joint Plier

### Electrical

1. 12-volt Test Light
2. Digital Multi-Meter (ask the electronics instructor about options)
3. Adjustable Ignition Spark Tester

### **Recommended but not required:**

1. ½" Drive Torque Wrench, 50 – 250 foot/pounds
2. Standard Combination Wrenches - (1/4" – 3/4")
3. 3/8" Drive - 8mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm and 19mm - 12-point standard depth socket set
4. ½" Drive Ratchet, Breaker Bar, Universal Joint and 3", 6" & 12" Extensions
5. ½" Drive Metric standard depth socket set (10mm – 24mm)