



## Day Program - Required Tools for Full-time Students

All students need the general tool set, plus the tools for each individual track.  
Students will also need a storage cabinet to leave on campus.

### General Tool List

Qty	Description
1	3/8" Dr. Shallow Socket Set, SAE (6pt.) 1/4-7/8" 11Pcs.
1	3/8" Dr. Deep Socket Set, SAE (6pt.) 1/4-7/8" 11Pcs.
1	3/8" Dr. Shallow Socket Set, Metric (6pt.) 8-19mm 12Pcs.
1	3/8" Dr. Deep Socket Set, Metric (6pt.) 8-19mm 12Pcs.
1	3/8" Dr. Spark Plug Socket 13/16"
1	3/8" Dr. Spark Plug Socket 5/8"
1	3/8" Dr. Extension 3"
1	3/8" Dr. Extension 6"
1	3/8" Dr. Extension 11"
1	3/8" Dr. <b>Flex Head</b> Ratchet 11-1/4", 80 tooth preferred
1	3/8" Dr. Universal Joint
1	Combination Dr. Torx Bit Set, T15 to T55 9 Pcs.
1	Combination Wrench Set, SAE (12pt.) 3/8-1" 11Pcs.
1	Combination Wrench Set, Metric (12pt.) 10-19mm 10Pcs.
1	Combination Wrench (12pt.) 6mm
1	Combination Wrench (12pt.) 7mm
1	Combination Wrench (12pt.) 8mm
1	Combination Wrench (12pt.) 9mm
1	Flare Nut Wrench Set, SAE (6pt.) 3/16-5/8" 5Pcs.
1	Flare Nut Wrench Set, Metric (6pt.) 9-21mm
1	3/8" Dr. Torque Wrench w/Ratcheting Head (20-100 FT. LBS.) <i>(Electronic type recommended for Machining and Engine Service Class)</i>
1	L Hex Wrench Set, SAE (.050-3/8") 13Pcs.
1	L Hex Wrench Set, Metric (2-12mm) 11Pcs.
1	Plier Set (diagonal cutters, needle nose, slip joint & adj. joint pliers) 4Pcs
1	Vise Grip 7"
1	File Handle for Mill File
1	Mile File 9 1/2"
1	Adjustable Wrench 10"

- 1 Screwdriver Set (Standard and Phillips) 8Pcs.
- 1 Pocket Screwdriver
- 1 Radiator Hose Removal Tool
- 1 Blow Gun w/ rubber tip (Pistol Grip Style)
- 1 Flat Tip Screw Starter
- 1 Phillips Tip Screw Starter
- 1 Punch and Chisel Set 15Pcs.
- 1 Caping Chisel
- 1 Feeler Gauge Set (SAE & Metric) 25Pcs.
- 1 Penlight, High Output LED (small flashlight)
- 1 Gasket Scraper 12"
- 1 Ballpeen Hammer 12oz.
- 1 Bronze Tip Hammer 16oz.
- 1 Dead Blow Hammer 24oz.
- 1 Hacksaw, Designed for 12" blades
- 1 Telescoping Rectangular Inspection Mirror
- 1 Retractable Box Knife
- 1 Flexible Magnetic Pick-up Tool
- 1 Flexible Two-Claw Pick-up Tool
- 1 Remote Starter Switch
- 1 Oil Can
- 1 1/2" Dr. Air Impact Wrench
- 1 3/8" Dr. Air Ratchet
- 1 Bronze Drift 8"
- 1 Tape Measure 12'
- 1 Fender Cover
- 4** Male Adaptor for Air Tools
- 1 Prybar Set, Striking (Includes 8, 12, 18 and 24") 4Pcs.
- 1 Tire Pressure Gauge
- 1 Dual Foot Air Chuck
- 1 6-12 Volt Circuit Tester
- 1 Engraver (110 volt) w/ Solid Carbide Tip
- 1 1/2" Dr. Torque Wrench w/Fixed Head Ratchet (50-250 FT. LBS.)
- 1 Electronic Digital Caliper 0-6" (0-150mm)
- 1 Ballpeen Hammer 40oz.
- 1 Automotive Digital Multimeter Kit (equivalent to a Fluke 88 Kit)
- 1 Mechanics Stethoscope

## Chassis Tool List #1

(Has **NOT** taken the Machining and Engine Service Class)

- 1 1/2" Dr. Impact Extension 3"
- 1 1/2" Dr. Impact Extension 6"
- 1 1/2" Dr. Impact Extension 12"
- 1 1/2" Dr. Shallow Impact Socket Set, Metric (6pt.) 10-24mm 15Pcs.
- 1 1/2" Dr. Shallow Impact Socket Set, SAE (6pt.) **THIN WALL** 3/8-1" 11Pcs.
- 1 1/2" Dr. Impact Universal Joint w/Lock Button
- 1 Brake Tool Set 7Pcs.
- 1 Disc Brake Caliper Driver Set 7Pcs.
- 1 1/2" Dr. Long Handle Ratchet 15", 80 tooth preferred

## Chassis Tool List #2

(Has taken the Machining and Engine Service Class)

- 1 Brake Tool Set 7Pcs.
- 1 Disc Brake Caliper Driver Set 7Pcs.

# Powertrain Tool List #1

(Has **NOT** taken the Engine Performance Class)

- 1 Adaptor: 3/8" Dr. Female to 1/2" Dr. Male
- 1 Adaptor: 1/2" Dr. Female to 3/8" Dr. Male
- 1 Adaptor: 1/2" Dr. Female to 3/4" Dr. Male
- 1 Adaptor: 1/4" Dr. Female to 3/8" Dr. Male
- 1 3/8" Dr. Speeder
- 1 1/4" Dr. Extension 2"
- 1 1/4" Dr. Extension 6"
- 1 1/4" Dr. Long Shank Driver
- 1 1/4" Dr. **Round Swivel Head** Ratchet 6-7/8", 72 tooth preferred
- 1 Snap Ring Plier Set for Transmission Service 4Pcs.
- 1 Transmission: Convertible Retaining Ring Plier, Straight .007 tip
- 1 Transmission: Convertible Retaining Ring Plier, Straight .038 tip
- 1 Transmission: External Snap Ring Pliers, 1/16" wide tips are angled at 90°
- 1 Transmission: External Snap Ring Plier, 3/16" wide notched tip
- 1 Extension Adaptor 1/2" Dr. Female to 3/8" Dr. Male 23-1/4"
- 1 Telescopic Magnetic Pick-up Tool
- 1 3/8" Dr. 5/16" Internal Pipe Plug Socket
- 1 3/8" Dr. Shallow Impact Socket (12pt.) 12mm
- 1 1/2" Dr. Deep Impact Socket (6pt.) 30mm
- 1 1/2" Dr. Deep Impact Socket (6pt.) 36mm
- 1 Scraper, Putty Knife Style
- 1 Terminal Crimping Tool
- 1 Wire Stripping Tool
- 1 Scribe (double pointed, straight and 90 degree)
- 1 Scratch Brush
- 1 Spanner Wrench
- 1 1/2" Dr. Shallow Impact Socket (6pt.) 1-1/16"
- 1 1/2" Dr. Shallow Impact Socket (6pt.) 1-1/8"
- 1 1/2" Dr. Shallow Impact Socket (6pt.) 1-3/16"
- 1 1/2" Dr. Shallow Impact Socket (6pt.) 1-1/4"
- 1 1/2" Dr. Shallow Impact Socket (6pt.) 1-5/16"
- 2** Male Adaptor for Air Tools
- 1 Universal Thread Gauge Set 4Pcs.
- 1 Crowfoot Set (Flarenut Style) 3/8-3/4" 7Pcs.
- 1 Crowfoot Set (Flarenut Style) 9-18mm 10Pcs.
- 1 1/4" Dr. Deep Socket Set, SAE (6pt.) 3/16-9/16" 10Pcs.
- 1 1/4" Dr. Deep Socket Set, Metric (6pt.) 5-15mm 12Pcs.
- 1 Ball Joint/Disc Brake Gauge Set 0-1"

## Powertrain Tool List #2

(Has taken the Engine Performance Class)

- 1 Adaptor: 3/8" Dr. Female to 1/2" Dr. Male
- 1 Adaptor: 1/2" Dr. Female to 3/8" Dr. Male
- 1 Adaptor: 1/2" Dr. Female to 3/4" Dr. Male
- 1 Adaptor: 1/4" Dr. Female to 3/8" Dr. Male
- 1 Snap Ring Plier Set for Transmission Service 4Pcs.
- 1 Transmission: Convertible Retaining Ring Plier, Straight .007 tip
- 1 Transmission: Convertible Retaining Ring Plier, Straight .038 tip
- 1 Transmission: External Snap Ring Pliers, 1/16" wide tips are angled at 90°
- 1 Transmission: External Snap Ring Plier, 3/16" wide notched tip
- 1 Extension Adaptor - 1/2" Dr. Female to 3/8" Dr. Male 23-1/4"
- 1 3/8" Dr. Speeder
- 1 3/8" Dr. 5/16" Internal Pipe Plug Socket
- 1 3/8" Dr. Shallow Impact Socket (12pt.) 12mm
- 1 1/2" Dr. Deep Impact Socket 30mm
- 1 1/2" Dr. Deep Impact Socket 36mm
- 1 Scraper, Putty Knife Style
- 1 Telescopic Magnetic Pick-up Tool
- 1 Scribe (double pointed, straight and 90 degree)
- 1 Scratch Brush
- 1 1/2" Dr. Shallow Impact Socket (6pt.) 1-1/16"
- 1 1/2" Dr. Shallow Impact Socket (6pt.) 1-1/8"
- 1 1/2" Dr. Shallow Impact Socket (6pt.) 1-3/16"
- 1 1/2" Dr. Shallow Impact Socket (6pt.) 1-1/4"
- 1 1/2" Dr. Shallow Impact Socket (6pt.) 1-5/16"
- 1 Spanner Wrench
- 2** Male Adaptor for Air Tools
- 1 Universal Thread Gauge Set 4pcs.
- 1 Crowfoot Set, SAE (Flarenut Style) 3/8-3/4" 7 Pcs.
- 1 Crowfoot Set, Metric (Flarenut Style) 9-18mm 10 Pcs.
- 1 Ball Joint/Disc Brake Gauge Set 0-1"

# Machining & Engine Service Tool List #1

(Has **NOT** taken the Chassis Class)

- 1 1/2" Dr. Impact Extension 3"
- 1 1/2" Dr. Shallow Impact Socket Set, Metric (6pt.) 10-24mm 15Pcs.
- 1 1/2" Dr. Shallow Impact Socket Set, SAE (6pt.) **THIN WALL** 3/8-1" 11Pcs.
- 1 1/2" Dr. Impact Universal Joint w/Lock Button)
- 1 1/2" Dr. Long Handle Ratchet 15", 80 tooth preferred
- 1 Engine Sling (Cable Type)
- 1 Female Quick Coupler
- 1 Male Adaptor for Air Tools
- 1 Thread Pitch Gauge (Std.)
- 1 Thread Pitch Gauge (Metric)
- 1 Steel Rule 6" (1/32" & 1/64" | mm & cm Increments)
- 1 Compression Gauge Set

# Machining & Engine Service Tool List #2

(Has taken the Chassis Class)

- 1 Engine Sling (Cable Type)
- 1 Female Quick Coupler
- 1 Male Adaptor for Air Tools
- 1 Thread Pitch Gauge (Std.)
- 1 Thread Pitch Gauge (Metric)
- 1 Steel Rule 6" (1/32" & 1/64" | mm & cm Increments)
- 1 Compression Gauge Set

# Engine Performance Tool List #1

(Has **NOT** taken the Chassis Class)

- 1 3/8" Dr. **Round Head** Ratchet 7-7/8", 100 tooth preferred
- 1 1/4" Dr. Semi-Deep Socket Set, SAE (6pt.) 3/16-9/16" 10Pcs.
- 1 1/4" Dr. Semi-Deep Socket Set, Metric (6pt.) 5-15mm 12Pcs.
- 1 1/4" Dr. **Flex Head** Sealed Ratchet 6", 72 tooth preferred
- 1 1/4" Dr. Extension 2"
- 1 1/4" Dr. Extension 6"
- 1 Battery Service Kit 5 Pcs.
- 1 Vacuum / Pressure Pump Kit (0-30" mercury)
- 1 Terminal Crimping Tool
- 1 Wire Stripping Tool
- 1 Spark Plug Wire/Boot Removal Tool – 45 degree offset jaws
- 1 Spark Plug Wire/Boot Removal Tool - Straight Jaw
- 1 Adjustable Ignition Spark Tester (Standard & Electronic ignition)
- 1 Spark Plug Gapper (Ramp Style)
- 1 Test Probes (equivalent to Fluke part# TP220)
- 1 Test Lead Set for use with Large Alligator Clips (banana style)
- 1 Alligator Clips, Large (Black and Red) 2pcs. Used with above Test Lead Set

# Engine Performance Tool List #2

(Has taken the Chassis Class)

- 1 3/8" Dr. **Round Head** Ratchet 7-7/8", 100 tooth preferred
- 1 1/4" Dr. Semi-Deep Socket Set, SAE (6pt.) 3/16-9/16" 10Pcs.
- 1 1/4" Dr. Semi-Deep Socket Set, Metric (6pt.) 5-15mm 12Pcs.
- 1 Battery Service Kit 5 Pcs.
- 1 Vacuum / Pressure Pump Kit (0-30" mercury)
- 1 Spark Plug Wire/Boot Removal Tool - 45 degree offset jaws
- 1 Spark Plug Wire/Boot Removal Tool - Straight Jaw
- 1 Adjustable Ignition Spark Tester (Standard & Electronic ignition)
- 1 Spark Plug Gapper (Ramp Style)
- 1 Test Probes (equivalent to Fluke part# TP220)
- 1 Test Lead Set for use with Large Alligator Clips (banana style)
- 1 Alligator Clips, Large (Black and Red) 2pcs. Used with above Test Lead Set