



Day Program - Required Tools For Full-time Students

All students need the **General Tool List**, 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 (6 pt.) 1/4-7/8" 11 Pc.
1	3/8" Dr. Deep Socket Set, SAE (6 pt.) 1/4-7/8" 11 Pc.
1	3/8" Dr. Shallow Socket Set, Metric (6 pt.) 8-19mm 12 Pc.
1	3/8" Dr. Deep Socket Set, Metric (6 pt.) 8-19mm 12 Pc.
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. Long Handle , Flex Head Ratchet 11-1/4"
1	3/8" Dr. Universal Joint
1	Combination Dr. Torx Bit Set, T15 to T55 9 Pc.
1	Combination Wrench Set, SAE (12 pt.) 3/8-1" 11 Pc.
1	Combination Wrench Set, Metric (12 pt.) 10-19mm 10 Pc.
1	Combination Wrench (12 pt.) 6mm
1	Combination Wrench (12 pt.) 7mm
1	Combination Wrench (12 pt.) 8mm
1	Combination Wrench (12 pt.) 9mm
1	Flare Nut Wrench Set, SAE (6 pt.) 3/16-5/8" 5 Pc.
1	Flare Nut Wrench Set, Metric (6 pt.) 9-21mm 6 Pc.
1	3/8" Dr. Torque Wrench Click-Type, w/Fixed Head Ratchet, <i>Coil Spring</i> (20-100 Ft. Lb.) (Electronic type recommended for Machining and Engine Service Track)
1	L Hex Wrench Set, SAE (.050-3/8") 13 Pc.
1	L Hex Wrench Set, Metric (2-12mm) 11 Pc.
1	Plier Set, 4 Pc. (diagonal cutters, needle nose, slip joint & adj. joint pliers)
1	Vise Grip 7"
1	File Handle for Mill File
1	Mile File 9 1/2"
1	Adjustable Wrench 12"

- 1 Screwdriver Set, 8 Pc. (Standard and Phillips)
- 1 Pocket Screwdriver, Flat Tip
- 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, 15 Pc.
- 1 Caping Chisel
- 1 Feeler Gauge Set – Metric & SAE 25 Pc.
- 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 25'
- 1 Fender Cover
- 4 Male Air Line Adaptor (1/4"-18 NPT) Style: True-Flate®
- 1 Prybar Set, Striking 4 Pc. (Includes 8, 12, 18 and 24")
- 1 Pencil Tire Pressure Gauge (5-50 psi. 1% gauge accuracy)
- 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 Click-Type, w/Fixed Head Ratchet, *Coil Spring* (50-250 Ft. Lb.)*
- 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
- 1 Ratcheting Serpentine Belt Tool (equivalent to a Lisle 59000)

Requires Male Air Line Adaptor. *Duplicate. Similar item in **Chassis Tool List.*

Chassis Tool List

- 1 Tire Valve Tool (Designed to install and remove standard tire valve cores)
- 1 1/2" Dr. Extension Set, 5 Pc.
- 1 1/2" Dr. Metric Semi-Deep Impact Socket Set (6 pt.) 15-27 mm 12 Pc.
- 1 1/2" Dr. Metric Semi-Deep Impact Socket (6 pt.) 14 mm
- 1 Brake Spring Tool (Services Bendix® brake springs and any spring attached to post)
- 1 1/4" Dr. Brake Spring Cap Socket (double-ended)
- 1 1/2" Dr. Impact Universal Joint w/Lock Button
- 1 1/4" Dr. Standard Shank Driver 6-13/16"
- 1 1/2" Dr. Soft Grip **Long Handle** Flex-Head Ratchet 26"
- 1 Thread Pitch Gauge
- 1 Brake Pad/Shoe Gauge Set, 8 Pc.
- 1 Torque Extension Set, 5 Pc.
Incl: (Yellow 65 ft. lbs., Blue 80 ft. lb., Gray 100 ft. lb., White 120 ft. lb. & Teal 140 ft. lb.)
- 1 1/2" Dr. Torque Wrench Click-Type, w/Fixed Head Ratchet, *Split Beam* (40-250 Ft. Lb.)*
- 1 Vacuum Brake Bleeder*
- 1 Small Brake Caliper Press
- 1 Digital Tire Inflator*
- 2 Male Air Line Adaptor (1/4"-18 NPT) Style: True-Flate®
- 1 Ball Joint/Disc Brake Gauge Set (Range: 0-1", Graduations: .0005")
- 1 Master Rethreading Tap and Die Set - SAE & Metric 48 Pc.

*Requires Male Air Line Adaptor. *Duplicate. Similar item in *General Tool List*.

Powertrain Tool List

- 1 Combination Square Drive Adaptor Set, 6 Pc.
- 1 3/8" Dr. Speeder Drive Handle 18"
- 1 Snap Ring Plier Set, 4 Pc. (For use on Transmissions. Ask your instructor.)
- 1 Snap Ring Pliers Set, 5 Pc. (3) straight tip and (2) angle tip (.030-.070")
- 1 Snap Ring Pliers (Internal/External, Straight tip .090)
- 1 1/2" Dr. Deep Impact Socket (12 pt.) 30mm
- 1 1/2" Dr. Deep Impact Socket (6 pt.) 32mm
- 1 1/2" Dr. Deep Impact Socket (6 pt.) 36mm
- 1 Putty Knife/ Scraper
- 1 Double Pointed Scribe (Straight / 90 degree)
- 1 Easy Grip Brush Set, 3 Pc. (Brass, Nylon and Stainless Steel bristles)
- 1 Spanner Wrench 10" (Differential Adjusting Wrench)
- 1 Multipurpose Scraper - Used for gasket removal, deburring and rust removal.
- 1 Seal Removal Tool Set, 4 Pc.
For use on Transmissions, Drive Shaft Seals, Inner Tie-Rod Rack, CV Boot removal.

Machining & Engine Service Tool List

- 1 1/2" Dr. Impact Extension 3"
- 1 1/2" Dr. Shallow Impact Socket Set, Metric (6 pt.) 10-24mm 15 Pc.
- 1 1/2" Dr. Shallow Impact Socket Set, SAE (6 pt.) **THIN WALL** 3/8-1" 11 Pc.
- 1 1/2" Dr. Impact Universal Joint w/Lock Button
- 1 1/2" Dr. Long Handle Ratchet 15"
- 1 Engine Sling (Cable Type)
- 1 Thread Pitch Gauge (Std.)
- 1 Thread Pitch Gauge (Metric)
- 1 Steel Rule 6" (1/32" & 1/64" | mm & cm Increments)
- 1 Compression Test Kit

Engine Performance Tool List

- 1 3/8" Dr. **Round Head** Ratchet 7-7/8" (100 tooth preferred)
- 1 1/4" Dr. Semi-Deep Socket Set, SAE (6 pt.) 3/16-9/16" 10 Pc.
- 1 1/4" Dr. Semi-Deep Socket Set, Metric (6 pt.) 5-15mm 12 Pc.
- 1 1/4" Dr. **Flex Head** Ratchet 6" (72 tooth preferred)
- 1 1/4" Dr. Extension 2"
- 1 1/4" Dr. Extension 6"
- 1 Battery Service Kit 5 Pc.
Incl: cable clamp spreader, pliers, terminal cleaner, side mount terminal cleaner & cable clamp puller.
- 1 Vacuum / Pressure Pump Kit (0-30" mercury)
- 1 Wire Terminal Crimping Tool 9" (Crimps 10-22 AWG wire)
- 1 Wire Stripper / Cutter (Strips AWG Sizes 12, 14, 16, 18, 20)
- 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, 2 pc. (Used with above Test Lead Set)