

Hybrid and Plug-in Electric Vehicles Required Materials and Tools

Required Uniform



Head

Top

Bottom

Footwear

Safety glasses/goggles

Advanced Transportation and Manufacturing shop shirt | **quantity: 3-5**

black pants

closed toe, closed heel, slip resistant, and oil resistant shoes/boots

Required Textbooks

ISBN: 978-0133994612 | Hybrid and Alternative Fuel Vehicles (4th Edition)

Recommended

Laptop or tablet

General Tools List

TOOL	TOOL DETAIL
☐ Adjustable Pliers	10" Channellocks
☐ Adjustable Wrench	10" Crescent
☐ Ball Peen Hammer	Size: 24 oz.
☐ Bar, rolling head	Size: 18"
☐ Center punch	Size: 1/2" x 4-1/2"
☐ Cold Chisel,	Size: 5/8" cut
☐ Combination Wrench	Size: 20mm 12 pt.
☐ Combination Wrench	Size: 21mm 12 pt.
☐ Combination Wrench	Size: 22mm 12 pt.
☐ Combination Wrench	Size: 23mm 12 pt.
☐ Combination Wrench	Size: 24mm 12 pt.
☐ Combination Wrench Set	Sizes: 3/8"-1"
☐ Combination Wrench Set	Sizes: 7mm-22mm
☐ Common Pliers	Sizes: 6"
☐ Diagonal Cutters	Sizes: 6"
☐ Feeler Gage	Sizes: .0015 - .035"
☐ Flashlight	
☐ Hacksaw w/ 2x hacksaw w/ 2 blades	
☐ Mill File w/handle	
☐ Needle Nose, Pliers	Sizes: 6"
☐ Nylon parts cleaning brush	
☐ Pin Punch Set	
☐ Ratchet & 3" & 6" Extensions	3/8" drive
☐ Safety Glasses	
☐ Screwdriver	Size: 4" Blade Phillips #1
☐ Screwdriver	Size: 4" Blade Phillips #2
☐ Screwdriver	Size: 4" flat blade
☐ Screwdriver	Size: 6" flat blade
☐ Screwdriver	Size: 8" flat blade
☐ Screwdriver	Size: 10" flat blade
☐ Shallow Socket Set (13 piece)	3/8" drive Sizes: 1/4"-1"
☐ Shallow Socket Set (16 piece)	1/2" drive Sizes: 9-24mm
☐ Shallow Socket Set (9 piece)	1/2" drive 1/2"-1"
☐ Shallow Socket Set (14 piece)	3/8" drive Sizes: 6-19mm
☐ Soft Face Hammer	Size: 24 oz.
☐ Steel Rule w/Pocket Clip	Sizes: 6"
☐ Tool Cart (unassembled)	
☐ Torque Wrench	1/2" drive

TOOL	TOOL DETAIL
☐ Trigger Type Oil Can	
☐ Vise-Grip	Size: 10" Straight Jaws
☐ VOM, Auto-Ranging	

Specialty Tools

DIESLETK 302 | Hybrid and Plug-in Electric Vehicle

TOOL	TOOL DETAIL
☐ Electric Service Hybrid Work Gloves	Class-0
☐ Fully Insulated Adjustable Wrench	rated to 1000 volts
☐ Hybrid Electric Safety Gloves	
☐ Insulated Plier Set	
☐ Insulated Screwdriver Set	

DIESLETK 303 | Advanced Hybrid and Plug-in Electric Vehicle

TOOL	TOOL DETAIL
☐ CAT III 1000v Insulation Multimeter Meter Tester Test Equipment	Recommended Fluke 1587
☐ Insulated 1000V VDE Ratchet	1/2" drive
☐ Insulated Extension	1/2" drive Size: 10"
☐ Insulated Ratchet	3/8" drive
☐ Insulated Socket Set	3/8" drive
☐ Insulated Socket Set	1/2" drive