

# Hybrid and Plug-in Electric Vehicles Required Materials and Tools

## Required Uniform



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

TOOL	TOOL DETAIL
<input type="checkbox"/> Trigger Type Oil Can	
<input type="checkbox"/> Vise-Grip	Size: 10" Straight Jaws
<input type="checkbox"/> VOM, Auto-Ranging	

## Specialty Tools

### DIESLETK 302 | Hybrid and Plug-in Electric Vehicle

TOOL	TOOL DETAIL
<input type="checkbox"/> Electric Service Hybrid Work Gloves	Class-0
<input type="checkbox"/> Fully Insulated Adjustable Wrench	rated to 1000 volts
<input type="checkbox"/> Hybrid Electric Safety Gloves	
<input type="checkbox"/> Insulated Plier Set	
<input type="checkbox"/> Insulated Screwdriver Set	

### DIESLETK 303 | Advanced Hybrid and Plug-in Electric Vehicle

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