

Heavy Duty Truck, Transit and Equipment 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: 128406705X | Fundamental of Medium-Heavy Duty Diesel Engines

ISBN: 1284110583 | Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems, Fundamentals of Medium/Heavy Duty Diesel Engines, and 2 Year Access to MHT ONLINE

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: 9mm-24mm
☐ Shallow Socket Set (9 piece)	1/2" drive Sizes: 1/2"-1"
☐ Shallow Socket Set (14 piece)	3/8" drive Sizes: 6mm-19mm

TOOL	TOOL DETAIL
☐ Soft Face Hammer	Size: 24 oz.
☐ Steel Rule w/Pocket Clip	Sizes: 6"
☐ Tool Cart (unassembled)	
☐ Torque Wrench	1/2" drive
☐ Trigger Type Oil Can	
☐ Vise-Grip	Size: 10" Straight Jaws
☐ VOM, Auto-Ranging	

Specialty Tools | First and Second Semesters

DIESLTK 112A | Heavy Duty Maintenance Shop Practices

DIESLTK 112B | Heavy Duty Engine Fundamentals

DIESLTK 112C | Heavy Duty Electrical Systems

TOOL	TOOL DETAIL
☐ Clipboard	
☐ Digital Calipers	Size: 6"
☐ Extensions	1/2 Drive Size: 3" and 6"
☐ Micrometer	Size: 0-1"
☐ Ratchet	1/2 Drive

DIESLTK 122A | Heavy Duty Fuel Injection Systems

DIESLTK 122B | Heavy Duty Hydraulics

DIESLTK 122C | Heavy Duty Heating, Ventilation, and Air Conditioning (HVAC)

TOOL	TOOL DETAIL
☐ Master Torx Set with Hex Socket Bits (36 Piece)	
☐ Magnetic Pick-Up Tool	
☐ Snap ring plier set	

Specialty Tools | Third and Fourth Semesters

DIESLTK 132A | Heavy Duty Transmission

DIESLTK 132B | Air Brake Systems

DIESLTK 132C | Heavy Duty Suspension and Steering Systems

TOOL	TOOL DETAIL
☐ Air Pressure Gauge	Size: 1/4" Bottom Back, 0-160 PSI
☐ Impact socket set	1/2" drive Sizes: 7/16" - 1"
☐ Magnetic Angle Finder	
☐ Pry Bars (8-piece set)	
☐ Snap ring plier set	

DIESLTK 142A | Heavy Duty Engine Overall

DIESLTK 142B | Electronic Engine Controls

DIESLTK 142C | Heavy Duty Emissions Systems

TOOL	TOOL DETAIL
☐ Breaker Bar	3/4" drive
☐ Jake Brake Bolt Socket	Size: 12mm 12pt.
☐ Ratchet	3/4" drive
☐ Six point Socket Imp.	1/2 drive Size: 36mm

DIESLETK 265 Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG) Fuel & Electronic Controls

TOOL	TOOL DETAIL
☐ Air Pressure Gauge	Size: 1/4" Bottom Back, 0-160 PSI
☐ Impact socket set	1/2" drive Sizes: 7/16" - 1"
☐ Magnetic Angle Finder	
☐ Pry Bars (8-piece set)	
☐ Snap ring plier set	