

Rail Systems Technology

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: #####
ISBN: #####

Recommended

Laptop or tablet

General Tools List

TOOL	TOOL DETAIL
☐ Clipboard	
☐ Tool Rollaway Cart	
☐ Shallow Socket Set (13 piece)	3/8" drive Sizes: 1/4" - 1"
☐ Shallow Socket Set (14 piece)	3/8" drive Sizes: 6mm - 19mm
☐ Shallow Socket Set (9 piece)	1/2" drive Sizes: 1/2" - 1"
☐ Shallow Socket Set (16 piece)	1/2" drive Sizes: 9mm - 24mm
☐ Combination Wrench Set	Sizes: 3/8" - 1"
☐ Combination Wrench Set	Sizes: 7mm - 22mm
☐ 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.
☐ Adjustable Wrench	Size: 10" Crescent
☐ Diagonal Cutters	Size: 6"
☐ Needle Nose, Pliers	Size: 6"
☐ Common Pliers	Size: 6"
☐ Adjustable Pliers	10" Channellocks
☐ Center punch	Size: 1/2" x 4-1/2"
☐ Pin Punch Set	
☐ Steel Rule w/Pocket Clip	Size: 6"
☐ Screwdriver	Size: 4" flat blade
☐ Screwdriver	Size: 6" flat blade
☐ Screwdriver	Size: 8" flat blade
☐ Screwdriver	Size: 10" flat blade
☐ Screwdriver	Size: 4" Blade Phillips #1
☐ Screwdriver	Size: 4" Blade Phillips #2
☐ Feeler Gage	Sizes: .0015 - .035"
☐ Bar, rolling head	Size: 18"
☐ Cold Chisel,	Size: 5/8" cut
☐ Ball Peen Hammer	Size: 24 oz.
☐ Soft Face Hammer	Size: 24 oz.
☐ Vise-Grip	Size: 10" Straight Jaws
☐ Mill File w/handle	
☐ Hacksaw w/ 2x hacksaw w/ 2 blades	

TOOL	TOOL DETAIL
☐ Trigger Type Oil Can	
☐ Nylon parts cleaning brush	
☐ VOM, Auto-Ranging	
☐ Flashlight	
☐ Torque Wrench	1/2" drive
☐ Ratchet	3/8" drive
☐ Extensions	3/8" drive Sizes: 3" and 6"
☐ Torque Wrench	3/8" drive
☐ Anti-Static Wrist Strap	
☐ Torque Multiplier, 750 ft-lb	1/2"-3/4" drive
☐ 3/8" Dr. 6" Extension (See 44)	
☐ 3/8"Dr. 3" Extension (See 44)	
☐ 1/2" Dr. 3" Extension (See 55)	
☐ 1/2" Dr. 6" Extension (See 55)	

Specialty Tools | First and Second Semesters

DIESLETK 401 (401A, 401B & 401C) | Introduction to Rail

TOOL	TOOL DETAIL
☐ 1/2d Ratchet & 3" & 6" Extensions	
☐ 0-1" Micrometer	
☐ 6" Digital Calipers	

DIESLETK 402 (402A, 402B & 402C) | Basic Rail Electricity, Electronics and PLC

TOOL	TOOL DETAIL
☐ Inductive Amp Clamp 0-200 Amps	
☐ CAT III 1000v Insulation Multimeter Meter Tester Test Equipment (Recommended Fluke 1587)	
☐ Hybrid Electric Safety Gloves	
☐ Electric Service Hybrid Work Gloves Class 0	
☐ Insulated Screwdriver Set	
☐ Insulated Plier Set	
☐ 1000V Fully Insulated Adjustable Wrench	

Specialty Tools | Third and Fourth Semesters

DIESLETK 403 (403A, 403B & 403C) | Basic Rail Vehicle Pneumatic and Hydraulic Controls & HVAC

TOOL	TOOL DETAIL
☐ Refrigerant Leak Detector	
☐ A/C Manifold Gauge Set	
☐ Pressure Transducer (Recommended Fluke VP350)	

DIESLETK 404 (404A, 404B & 401C) | Rail Diesel Engine Fundamentals and Rail Accessory/Support Systems

TOOL	TOOL DETAIL
☐ 0-1" Micrometer	
☐ 6" Digital Calipers	
☐ Magnetic Pick-Up Tool	
☐ Snap ring plier set	
☐ Torx Bit Socket Set	
☐ Tamper proof Torx Bit Set	
☐ Allen Key Socket Set	