

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

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

## Specialty Tools | First and Second Semesters

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

TOOL	TOOL DETAIL
<input type="checkbox"/> 1/2d Ratchet & 3" & 6" Extensions	
<input type="checkbox"/> 0-1" Micrometer	
<input type="checkbox"/> 6" Digital Calipers	

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

TOOL	TOOL DETAIL
<input type="checkbox"/> Inductive Amp Clamp 0-200 Amps	
<input type="checkbox"/> CAT III 1000v Insulation Multimeter Meter Tester Test Equipment (Recommended Fluke 1587)	
<input type="checkbox"/> Hybrid Electric Safety Gloves	
<input type="checkbox"/> Electric Service Hybrid Work Gloves Class 0	
<input type="checkbox"/> Insulated Screwdriver Set	
<input type="checkbox"/> Insulated Plier Set	
<input type="checkbox"/> 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
<input type="checkbox"/> Refrigerant Leak Detector	
<input type="checkbox"/> A/C Manifold Gauge Set	
<input type="checkbox"/> Pressure Transducer (Recommended Fluke VP350)	

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

TOOL	TOOL DETAIL
<input type="checkbox"/> 0-1" Micrometer	
<input type="checkbox"/> 6" Digital Calipers	
<input type="checkbox"/> Magnetic Pick-Up Tool	
<input type="checkbox"/> Snap ring plier set	
<input type="checkbox"/> Torx Bit Socket Set	
<input type="checkbox"/> Tamper proof Torx Bit Set	
<input type="checkbox"/> Allen Key Socket Set	