

## Level Chart: Diesel Engine Mechanic (DEM) - Technical Training

Level One (9 Weeks)				Level Two (7 Weeks)			
Code	Unit Title	T	P	Code	Unit Title	T	P
A1	Orientation I: Structure and Scope of Diesel Engine Mechanic Trade Learning	7	0	B4	Diesel Engine Fuel and Exhaust Systems	28	35
A2	Trade Safety Awareness	7	0	C1	Driven Systems	14	14
A4	Tools and Equipment	15	20	C2	Drivetrains	14	14
A5	Planning and Communication Skills	7	0	D1	Braking Systems	21	7
A6	DEM Trade Related Mathematics	10	4	D2	Trucks and Suspension Systems	7	7
A7	Access, Hoisting, Lifting, and Rigging Equipment	7	0	D3	Wheel Assemblies / Traction-Motor	14	14
A8	Computer Applications	5	2	D4	Undercarriage trucks	14	7
A9	Trade Related Documents	2	5	E3	Diesel Engine Starting and Charging Systems	14	7
A10	Fasteners, Adhesives and other Consumables	6	1	E4	Diesel Engine Accessory Systems	7	7
A11	Standards and Regulations (General and Industry Specific)	14	0				
A13	Welding	7	35				
B1	Fundamentals of Diesel Engines	28	0				
B2	Diesel Engine Internal Components	15	55				
B3	Diesel Engine Support Systems	15	6				
E1	Basic Electrical Principles and Testing	35	7				
	<b>Subtotals</b>	<b>180</b>	<b>135</b>		<b>Subtotals</b>	<b>133</b>	<b>112</b>
	<b>Total</b>	<b>315 hours</b>			<b>Total</b>	<b>245 hours</b>	

Level Three (6 Weeks)			
Code	Unit Title	T	P
A12	Commissioning and Decommissioning Equipment	7	0
C3	Diesel Engine Hydraulic & Hydrostatic Drive Systems	28	7
E2	Electronic Control Systems	21	14
E5	Diesel Engine Power Generator Systems	14	7
F1	Diesel Engine Cab Structures and Interiors, Buildings, and Related Components	7	7
F2	Diesel Engine Climate Control Systems	7	7
A3	Orientation II: The Job of Journeywork	14	7
A14	Pre-Provincial Review	63	0
	<b>Subtotals</b>	<b>161</b>	<b>49</b>
	<b>Total</b>	<b>210 hours</b>	