

Level Chart: Industrial Mechanic (Millwright) - Technical Training

Level One (8 Weeks)				Level Two (8 Weeks)			
Code	Unit Title	T	P	Code	Unit Title	T	P
A1	Trade Safety Awareness	7	14	B1	Equipment Assembly Drawings	6	6
A2	Safety	15	8	B2	Job Planning	9	0
A3	A3 Learning About Work	7	0	B3	Welding II	9	33
A4	Trade Overview	7	0	B4	Lathe and Milling Machines	4	18
A5	Communications	7	7	B5	Lubrications Systems	9	1
A6	Drawings and Sketching	10	19	B6	Shaft Alignment I	6	13
A7	Tools and Equipment	10	0	B7	Bearings, Seals and Gaskets	13	13
A8	Measuring and Layout	12	26	B8	Couplings and Shafts	21	26
A9	Fastening and Retaining Devices	5	5	B9	Clutches and Brakes	16	19
A10	Metallurgy	4	6	B10	Chain and Belt Drive Systems and Gear Drives	19	19
A11	Welding I	7	20	B11	Conveying Systems	5	15
A12	Grinders	7	10				
A13	Power Metal Saws	5	5				
A14	Drilling Machines	6	10				
A15	Hoisting, Lifting, Rigging and Moving	7	20				
A16	Access Equipment	7	7				
	Subtotals	123	157		Subtotals	117	163
	Total	280 Hours			Total	280 Hours	

Level Three (8 Weeks)				Level Four (8 Weeks)			
Code	Unit Title	T	P	Code	Unit Title	T	P
C1	Shaft Alignment II	3	7	D1	Mechanical Installation Drawings and Equipment Installation and Alignment	10	11
C2	Compressors I	7	14	D2	Journeyman Trainer	10	0
C3	Compressors II	5	13	D3	Pre-IP Review: Examination Review	39	11
C4	Pumps	10	26	D4	Electrical Principles	9	5
C5	Introduction to Fluid Power	8	2	D5	Prime Movers	30	20
C6	Hydraulic Systems I	38	18	D6	Hydraulic Systems II	21	14
C7	Pneumatic Systems I	25	25	D7	Pneumatic Systems II	6	6
C8	Piping Systems and Process Tanks and Containers	37	30	D8	Non-destructive Testing	3	4
C9	Vacuum Systems	6	6	D9	Introduction to Commissioning	7	0
				D10	Preventative & Predictive Maintenance	33	25
				D11	Robotics and Automated Equipment	11	5
	Subtotals	139	141		Subtotals	179	101
	Total	280 Hours			Total	280 Hours	

P – Practical
T - Theory

Based on the Red Seal Occupational Standard (RSOS) 2016