

## Level Chart: Steamfitter/Pipefitter - Technical Training

Level One (9 weeks)				Level Two (9 weeks)			
Code	Unit Title	T	P	Code	Unit Title	T	P
A1	Orientation I: The Structure and Scope of Steamfitter-Pipefitter Trade Learning	7	0	B1	Industrial Drawings	30	0
A2	Trade Safety Awareness	7	0	B2	Template Development	20	0
A3	Tools and Equipment	15	0	B3	Spool and Fitting Fabrication	8	14
A4	Access Equipment	5	0	B4	Advanced Hoisting, Lifting, and Rigging	14	0
A5	Communications and Trade Communication	7	0	B5	Stainless Steel Piping	8	10
A6	Hoisting, Lifting, and Rigging	12	0	B6	Fibreglass Piping	3	0
A7	Mathematics/Science I	40	0	B7	Specialty Piping	21	0
A8	Pipe, Tube, and Tubing Fundamentals	21	0	B8	Hydronic Systems	66	25
A9	Piping Valves	10	0	B9	Hydronic System Controls	21	6
A10	Copper Tube and Tubing	12	20	B10	Cross Connection Controls	7	0
A11	Plastic Piping	7	5	B11	Mathematics/Science II	40	0
A12	Black Iron Piping	30	35	B12	Arc Welding	7	15
A13	Drawings and Blueprints	30	0				
A14	Introduction to Welding, Fuel Brazing and Cutting	7	15				
A15	Gas Code	20	0				
A16	Electrical	10	0				
	<b>Subtotals</b>	<b>240</b>	<b>75</b>		<b>Subtotals</b>	<b>245</b>	<b>70</b>
	<b>Total</b>	<b>315 Hours</b>			<b>Total</b>	<b>315 Hours</b>	

Level Three (9 Weeks)				Level Four (8 Weeks)			
Code	Unit Title	T	P	Code	Unit Title	T	P
C1	Low Pressure Steam Systems	35	20	D1	Process Piping Systems	77	0
C2	High Pressure Steam Systems	49	30	D2	System Testing and Commissioning	20	0
C3	Condensate Return Systems	30	7	D3	Quality Control	10	0
C4	Hydraulic Systems	7	6	D4	Job Planning	10	0
C5	Compressed Air Systems	7	7	D5	Gas Code III	20	5
C6	Medical Gas and Gas Piping Systems	7	0	D6	Electrical III	20	10
C7	Mathematics/Science III (includes heat load calculations, fan laws, and pumps)	40	0	D7	Mathematics/Science IV	40	0
C8	Refrigeration Systems	15	0	D8	National Requirements Review	35	33
C9	Gas Code II	20	5				
C10	Electrical II	20	10				
	<b>Subtotals</b>	<b>230</b>	<b>85</b>		<b>Subtotals</b>	<b>232</b>	<b>48</b>
	<b>Total</b>	<b>315 Hours</b>			<b>Total</b>	<b>280 Hours</b>	

# Apprenticeship Manitoba

## Level 5: Steamfitter/Pipefitter (Domestic Gasfitter Level 2)

Level Five (10 Weeks)			
Code	Unit Title	T	P
E1	Gas/Safety Control Requirements	28	7
E2	Supply Air/Venting Permit Requirements	28	6
E3	Gas Burning Equip. and Materials Determination/Burner Orifice Sizing/Conversion Work	20	18
E4	Longest Run/Gas Burning Equip. BTUH Input Demand, Systems/Pipe Size Determination/Pressure and Measurement Requirements	28	14
E5	Tests/Inspects Piping and Gas Appliance Efficiency	16	17
E6	Electrical Requirements	70	35
E7	Orientation II: The Job of Journeywork	14	0
E8	Applied Trade Projects	0	35
E9	Alternate Fuel Systems	14	0
		<b>Subtotals</b>	<b>218 132</b>
		<b>Total</b>	<b>350 hrs</b>