

## Level Chart: Plumber - Technical Training

Level One (10 weeks)				Level Two (9 weeks)			
Code	Unit Title	T	P	Code	Unit Title	T	P
A1	SAFETY RELATED FUNCTIONS	10	0	B1	ROUTINE TRADE ACTIVITIES II	15	0
A2	TOOLS AND EQUIPMENT	35	32	B2	PLUMBING FIXTURES AND APPLIANCES	52	37
A3	ROUTINE TRADE ACTIVITIES	15	22	B3	INTERIOR DRAINAGE, WASTE AND VENT SYSTEMS II	20	15
A4	COMMUNICATION TECHNIQUES	0	5	B4	HYDRONIC SYSTEMS	40	12
A5	PIPE PREPARATION	27	0	B5	MATHEMATICS AND SCIENCE II	35	0
A6	TUBE, TUBING, PIPE (Join)	0	29	B6	FUNDAMENTALS OF ELECTRICAL APPLIANCES AND CONTROLS	25	20
A7	INTERIOR DRAINAGE, WASTE AND VENT SYSTEMS I	50	20	B7	GAS CODE II	35	9
A8	MATHEMATICS AND SCIENCE I	50	0				
A9	INTRO. TO BASIC ELECTRICITY	25	10				
A10	GAS CODE I	20	0				
	<b>Subtotals</b>	<b>232</b>	<b>118</b>		<b>Subtotals</b>	<b>222</b>	<b>93</b>
	<b>Total</b>	<b>350 Hours</b>			<b>Total</b>	<b>315 Hours</b>	

Level Three (8 Weeks)				Level Four (8 Weeks)			
Code	Unit Title	T	P	Code	Unit Title	T	P
C1	SEWERS	5	0	D1	COMMUNICATION TECHNIQUES AND MENTORING	25	0
C2	INTERIOR DRAINAGE, WASTE AND VENT SYSTEMS III	25	12	D2	SEWAGE TREATMENT SYSTEMS	20	5
C3	WATER SYSTEMS	30	7	D3	PRESSURE SYSTEMS	20	15
C4	POTABLE WATER DISTRIBUTION	24	2	D4	LOW PRESSURE STEAM SYSTEMS	20	5
C5	HYDRONIC SYSTEMS	30	5	D5	SPECIALIZED SYSTEMS II	30	0
C6	SPECIALIZED SYSTEMS I	30	10	D6	PROCESS PIPING	15	0
C7	ELECTRICAL CONTROLS AND DIAGRAMS FOR PUMPS AND HYDRONICS	25	15	D7	PRE-IP TRADE MATHEMATICS IV & SCIENCE REVIEW	35	0
C8	SKETCHING/BLEUPRINT READING	10	15	D8	PRE-IP CODE REVIEW	25	0
C9	MATHEMATICS & TRADE SCIENCE III	35	0	D9	PRE-IP TRADE SAFETY REVIEW	5	0
				D10	ELECTRICAL SCHEMATICS & TROUBLESHOOTING HYDRONICS AND PLUMBING SYSTEMS	23	7
				D11	GAS PIPING SYSTEMS	30	0
	<b>Subtotals</b>	<b>214</b>	<b>66</b>		<b>Subtotals</b>	<b>248</b>	<b>32</b>
	<b>Total</b>	<b>280 Hours</b>			<b>Total</b>	<b>280 Hours</b>	

**Note:** All Unit content titles comprise common core training throughout Canada. A grade will be recorded for the Unit in its entirety. A Pass mark is considered to be 70% as measured by 70 percent or more correct on the cumulative scores achieved by learner-apprentices on all Subunits.

**A more detailed Level Chart with Subunit Outlines follows on the next page.**

## Detailed Level Chart: Plumber - Technical Training

Level One (10 weeks)				Level Two (9 weeks)			
Code	Unit Title	T	P	Code	Unit Title	T	P
<b>A1</b>	<b>SAFETY RELATED FUNCTIONS</b>			<b>B1</b>	<b>ROUTINE TRADE ACTIVITIES II</b>		
A1a	Trade Safety Awareness	10	0	B1a	Routine Trade Activities II	5	0
<b>A2</b>	<b>TOOLS AND EQUIPMENT</b>			B1b	Commissioning	10	0
A2a	Plumber Tools and Equipment	15	0	<b>B2</b>	<b>PLUMBING FIXTURES AND APPLIANCES</b>		
A2b	Hoisting and Lifting and Rigging	10	10	B2a	Residential Plumbing Fixtures and Accessories	10	10
A2c	Access Equipment	5	2	B2b	Appliances	12	10
A2d	Fuel Brazing and Cutting	5	20	B2c	Piping Valves 1	10	3
<b>A3</b>	<b>ROUTINE TRADE ACTIVITIES</b>			B2d	Hot Water Storage Tanks and Heaters	10	7
A3a	Routine Trade Activities I	0	7	B2e	Commercial/Institutional Plumbing Fixtures and Accessories	10	7
A3b	Learning About Work	5	0	<b>B3</b>	<b>INTERIOR DRAINAGE, WASTE AND VENT SYSTEMS II</b>		
A3c	Drawings	10	15	B3a	Residential Sanitary Drainage, Waste and Vent Systems II	20	15
<b>A4</b>	<b>COMMUNICATION TECHNIQUES</b>			<b>B4</b>	<b>HYDRONIC SYSTEMS</b>		
A4a	Intro to Computers	0	5	B4a	Piping Valves II	10	2
<b>A5</b>	<b>PIPE PREPARATION</b>			B4b	Hydronic System Control	30	10
A5a	Materials & Pipe, Tube and Tubing, and Fundamentals Theory	27	0	<b>B5</b>	<b>MATHEMATICS AND SCIENCE II</b>		
				B5a	Mathematics and Science II	35	0
<b>A6</b>	<b>TUBE, TUBING, PIPE (Join)</b>			<b>B6</b>	<b>FUNDAMENTALS OF ELECTRICAL APPLIANCES AND CONTROLS</b>		
A6a	Pipe, Tube and Tubing and, Fundamentals Practical	0	29	B6a	Fundamentals of Electrical Appliances and Controls	25	20
<b>A7</b>	<b>INTERIOR DRAINAGE, WASTE AND VENT SYSTEMS I</b>			<b>B7</b>	<b>GAS CODE II</b>		
A7a	Residential Sanitary Drainage, Waste and Vent Systems I	50	20	B7a	Gas Code II	35	9
<b>A8</b>	<b>MATHEMATICS AND SCIENCE I</b>						
A8a	Mathematics and Science I	50	0				
<b>A9</b>	<b>INTRO. TO BASIC ELECTRICITY</b>						
A9a	Intro to Basic Electricity	25	10				
<b>A10</b>	<b>GAS CODE I</b>						
A10a	Gas Code I	20	0				
	<b>Subtotals</b>	<b>232</b>	<b>118</b>		<b>Subtotals</b>	<b>222</b>	<b>93</b>
	<b>Total</b>	<b>350 Hours</b>			<b>Total</b>	<b>315 Hours</b>	

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## Detailed Level Chart: Plumber - Technical Training

Level Three (8 Weeks)				Level Four (8 Weeks)			
Code	Unit Title	T	P	Code	Unit Title	T	P
<b>C1</b>	<b>SEWERS</b>			<b>D1</b>	<b>COMMUNICATION TECHNIQUES AND MENTORING</b>		
C1a	Storm and Combination Drainage Systems	5	0	D1a	Journeyperson Trainer	5	0
<b>C2</b>	<b>INTERIOR DRAINAGE, WASTE AND VENT SYSTEMS III</b>			D1b	Communication and Trade Documentation	15	0
C2a	Commercial Drainage, Waste, & Vent Systems	18	12	D1c	Job Planning	5	0
C2b	Commercial Waste Systems	7	0	<b>D2</b>	<b>SEWAGE TREATMENT SYSTEMS</b>		
<b>C3</b>	<b>WATER SYSTEMS</b>			D2a	Private Sewage Disposal Systems	20	5
C3a	Water service	10	2	<b>D3</b>	<b>PRESSURE SYSTEMS</b>		
C3b	Rural Water Supply	20	5	D3a	Water Treatment Systems	20	15
<b>C4</b>	<b>POTABLE WATER DISTRIBUTION</b>			<b>D4</b>	<b>LOW PRESSURE STEAM SYSTEMS</b>		
C4a	Potable Water Distribution	16	0	D4a	Low Pressure Steam Systems	20	5
C4b	Cross-Connection Control	8	2	<b>D5</b>	<b>SPECIALIZED SYSTEMS II</b>		
<b>C5</b>	<b>HYDRONIC SYSTEMS</b>			D5a	Specialized Systems II	30	0
C5a	Hydronic Systems including Cooling and Low Pressure Heating	30	5	<b>D6</b>	<b>PROCESS PIPING</b>		
<b>C6</b>	<b>SPECIALIZED SYSTEMS I</b>			D6a	Process Piping	15	0
C6a	Specialized Systems I	15	5	<b>D7</b>	<b>PRE-IP TRADE MATHEMATICS IV &amp; SCIENCE REVIEW</b>		
C6b	Specialty Piping Systems	15	5	D7a	Pre-IP Trade Mathematics IV & Science Review	35	0
<b>C7</b>	<b>ELECTRICAL CONTROLS AND DIAGRAMS FOR PUMPS AND HYDRONICS</b>			<b>D8</b>	<b>PRE-IP CODE REVIEW</b>		
C7a	Electrical Controls and Diagrams for Pumps and Hydraulics	25	15	D8a	Pre-IP Code Review	25	0
<b>C8</b>	<b>SKETCHING/BLEUPRINT READING</b>			<b>D9</b>	<b>PRE-IP TRADE SAFETY REVIEW</b>		
C8a	Sketching/Blueprint Reading	10	15	D9a	Pre-IP Trade Safety Review	5	0
<b>C9</b>	<b>MATHEMATICS &amp; TRADE SCIENCE III</b>			<b>D10</b>	<b>ELECTRICAL SCHEMATICS &amp; TROUBLESHOOTING HYDRONICS AND PLUMBING SYSTEMS</b>		
C9a	Mathematics III	25	0	D10a	Electrical Schematics & Troubleshooting Hydraulics & Plumbing Systems	23	7
C9b	Trade Science III	10	0	<b>D11</b>	<b>GAS PIPING SYSTEMS</b>		
				D11a	Gas Piping Systems	30	0
	<b>Subtotals</b>	<b>214</b>	<b>66</b>		<b>Subtotals</b>	<b>248</b>	<b>32</b>
	<b>Total</b>	<b>280 Hours</b>			<b>Total</b>	<b>280 Hours</b>	

**Note:** All Unit content titles comprise common core training throughout Canada. Unit content is supplemented throughout technical training by trade-specific Subunit information that is presented in appropriate contexts of discussion and study. A grade will be recorded for the Unit in its entirety. A Pass mark is considered to be 70% as measured by 70 percent or more correct on the cumulative scores achieved by learner-apprentices on all Subunits. Every Subunit of the larger Unit Title (in blue or bold lettering) requires a 70% pass mark.

**Trade related** Math, Science and Electrical Theory/Safety are integral to the Plumber trade. Components that inform such training are the Units of Instruction that provide in context discussion and study.