

Plumber (PLA) Apprenticeship Curriculum Mapping

Program Curriculum

A collection of 15 CTS courses has been developed to align with the current Plumber Apprenticeship course. These courses, when combined, cover the First Period technical training content.

Alberta Apprenticeship Training Profile First Period	CTS Course Alignment to Apprenticeship First Period Topics	Assessment
Topic	CTS Course Number and Name	
SECTION ONE – WORKPLACE SAFETY AND RIGGING		
Safety Legislation, Regulations, and Industry Policy in the Trades	PLA3900: Apprenticeship Safety	_____
Climbing, Lifting, Rigging, and Hoisting		_____
Hazardous Materials and Fire Protection		_____
Apprenticeship Training Program		_____
Pipe Trades’ Codes		_____
Electrical Safety		_____
SECTION TWO – TOOLS, EQUIPMENT, AND MATERIALS		
Hand Tools	PLA3406: Hand and Power Tools	_____
Power Tools		_____
Welded Pipe and Fittings	PLA3411: Welded Pipe and Fittings	_____
Plastic Pipe and Tubes	PLA3416: Plastic Pipe and Tubes	_____
Threaded and Grooved Pipe	PLA3421: Threaded and Grooved Pipe	_____
Tube and Tubing	PLA3426: Tubes, Tubing, and Valves	_____
Valves		_____
Hangers, Supports, and Fasteners	PLA3431: Install and Test Piping Systems	_____
Pressure Testing		_____
Pumps		_____
SECTION THREE – METAL FABRICATION		
Welding Safety	PLA3436: Welding Safety and Fabrication	_____
Welding	PLA3441: Bracket and Spool Fabrication	_____
Brazing and Soldering	PLA3446: Brazing and Soldering	_____

SECTION FOUR – DRAWINGS AND SPECIFICATIONS		
Sketching and Drawing	PLA3451: Sketching and Drawing	_____
Single-line Drawing		_____
Drawing Interpretation	PLA3456: Interpreting Drawings	_____
SECTION FIVE – CALCULATIONS AND SCIENCES		
Applied Calculations	PLA3461: Plumbing Calculations	_____
Perimeters, Areas, Volumes, Percentage, and Grade		_____
Volumes and Capacities		_____
Piping Offsets	PLA3466: Piping Offsets and Density	_____
Matter, Density, and Relative Density		_____
Pressure and Atmosphere	PLA3471: Principles of Pressure, Atmosphere, and Electricity	_____
Principles of Electricity		_____
CTS COURSES THAT ALLOW STUDENTS ADDITIONAL PRACTICAL TIME		
	PLA3480: PLA Practicum A	_____
	PLA3485: PLA Practicum B	_____
	PLA3490: PLA Practicum C	_____
	PLA3495: PLA Practicum D	_____