Pipe Trades (PLA) Apprenticeship Curriculum Mapping

Program Curriculum

A collection of 15 CTS courses has been developed to align with the current Pipe Trades Apprenticeship course. These courses, when combined, cover the First Period technical training content in any of the pipe trades (i.e., gasfitter, plumber, sprinkler systems installer, and steamfitter-pipefitter).

Alberta Apprenticeship Training Profile First Period	CTS Course Alignment to Apprenticeship First Period Topics CTS Course Number and Name	Assessment
Topic		
SECTION ONE – W	ORKPLACE 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 – TO	OLS, 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 TH	REE – 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			
Perimeters, Areas, Volumes, Percentage, and Grade	PLA3461: Pipe Trades Calculations		
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		