## Millwright (MWA) Apprenticeship Curriculum Mapping

## Program Curriculum

A collection of 13 CTS courses has been developed to align with the current Millwright Apprenticeship Course Outline. 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	
Торіс	CTS Course Number and Name		
SECTION ONE – SAFETY, RIGGING, CRANES AND HOISTS			
Safety Legislation, Regulations and Industry Policy in the Trades	MWA3900: Apprenticeship Safety		
Climbing, Lifting, Rigging and Hoisting			
Hazardous Materials and Fire Protection			
Rigging Procedures	MWA3400: Rigging		
Crane and Hoists			
SECTION TWO – MEASUREMENT, LAYOUT AND METALLURGY			
Measuring	MWA3405: Measurement		
Measuring Tools			
Layout	MWA 3410: Layout		
Metallurgy	MWA3410: Layout		
SECTION THREE – TOOLS AND FASTENERS			
Hand Tools	MWA3415: Portable Tools		
Portable Power & Air Tools			
Grinders			
Power Saws			
Explosive Actuated Tools	MWA3420: Fasteners		
Threaded Fasteners and Locking Devices			
Non-Threaded Fasteners and Locking Devices			
Installation and Removal of Fasteners			
SECTION FOUR – MACHINING			
Drilling	MWA3425: Drilling & Milling		
Milling			
Lathe Components and Accessories	MWA3430: Lathe Introduction		
Lathe Operations	MWA3435: Lathe Operation		

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Торіс	CTS Course Number and Name		
SECTION FIVE – MACHINE INSTALLATION AND ALIGNMENT			
Grouting, Levelling and Anchoring	MWA3440: Machine Installation		
Rim and Face Shaft Alignment			
SECTION SIX – MATH AND PRINT READING			
Working with Numbers	MWA3445: Numbers		
Fractions and Decimals			
Algebra			
Measurements and Conversions	MWA3450: Mathematics		
Ratio and Proportion, Graphs and Tables			
Introduction to Triangles and Trigonometry			
Sketches, Drawings and Prints	MWA3455: Print Reading		
Limits, Fits and Tolerances			
CTS COURSES THAT ALLOW STUDENTS ADDITIONAL PRACTICAL TIME			
	MWA3460: MWA Practicum A		
	MWA3465: MWA Practicum B		
	MWA3470: MWA Practicum C		
	MWA3475: MWA Practicum D		

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