

Appendix A

WORK PROCESS SCHEDULE

MILLWRIGHT

O*NET-SOC CODE: 49-9044.00 RAPIDS CODE: 0335/0335HY

This schedule is attached to and a part of these Standards for the above identified occupation.

1. TERM OF APPRENTICESHIP

The term of the occupation shall be four (4) or five (5) years with an OJL attainment of a minimum of 5,200 or 6,500 hours supplemented by the required hours of related instruction.

2. RATIO OF APPRENTICES TO JOURNEYWORKERS

(INSERT RATIO HERE) as covered in the CBA.

3. APPRENTICE WAGE SCHEDULE

Apprentices shall be paid a progressively increasing schedule of wages based on a percentage of the current journeyworker wage rate or as per the CBA.

(FILL IN RATES)

4-year Program

1 st 6 months and 650 hours ___%	2 nd 6 months and 650 hours ___%
3 rd 6 months and 650 hours ___%	4 th 6 months and 650 hours ___%
5 th 6 months and 650 hours ___%	6 th 6 months and 650 hours ___%
7 th 6 months and 650 hours ___%	8 th 6 months and 650 hours ___%

5-year Program

1 st 6 months and 650 hours ___%	2 nd 6 months and 650 hours ___%
3 rd 6 months and 650 hours ___%	4 th 6 months and 650 hours ___%
5 th 6 months and 650 hours ___%	6 th 6 months and 650 hours ___%
7 th 6 months and 650 hours ___%	8 th 6 months and 650 hours ___%
9 th 6 months and 650 hours ___%	10 th 6 months and 650 hours ___%

4. SCHEDULE OF WORK EXPERIENCE (See attached Work Process Schedule)

The JATC may modify the work processes to meet local needs prior to submitting these Standards to the appropriate Registration Agency for approval.

5. SCHEDULE OF RELATED INSTRUCTION (See attached Related Instruction Outline)

The JATC may modify the related instruction to meet local needs prior to submitting these Standards to the appropriate Registration Agency for approval.

**WORK PROCESS SCHEDULE
MILLWRIGHT
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The following schedule is an example of work experience (OJL) and training considered necessary to develop a skilled and productive worker in the Millwright trade. Within the limits of basic trade requirements, the schedule is adaptable to local conditions.

4-Year Program

	Approximate Hours	
General Knowledge	325	- 500
Machine Components	1300	- 2000
Machinery Installation	1300	- 2000
Machinery Alignment	1300	- 2000
Supplemental Skills	975	- 1,500
Total	5,200	- 8,000

5-Year Program

	Approximate Hours	
General Knowledge	400	- 625
Machine Components	1625	- 2500
Machinery Installation	1625	- 2500
Machinery Alignment	1625	- 2500
Supplemental Skills	1225	- 1875
Total	6,500	- 10,000

**RELATED INSTRUCTION OUTLINE
MILLWRIGHT
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Related instruction - This instruction shall include, but not be limited to:
Using the following training matrix, local JATCs can design a flexible training program to meet the needs of our local industries while at the same time providing apprentices the opportunity to complete their apprenticeship.

General Knowledge	Machine Components	Machinery Installation	Machinery Alignment	Supplemental Skills
Introduction to Millwrighting	Mechanical Power Transmission	Machinery Installation	Rim-Face Coupling Alignment	Metal Fabrication
OSHA 10-Hour	Hydraulic and Pneumatic Systems	Conveyor Systems	Reverse Dial Coupling Alignment	Oxygen-Acetylene Cutting
CPR/First Aid/AED	Industrial Belting	Monorail Systems	Vertical Coupling Alignment	Basic SMAW Welding
Confined Space	Gearboxes	Pumps	Optical Alignment	Scaffold User
Construction Fall Protection	Mechanical Seals	Compressors	Electric Micrometer Wire Alignment	
Ergonomics		Fans	Gear Alignment	
Safety Data Sheets		Turbines	Sprocket and Sheave Alignment	
Math for the Trades		Generators	Laser Shaft Alignment	
Mechanical Print Reading		Cranes	Advanced Optical Alignment	
Human Performance				
Green Awareness				
Diversity Training				
Optional Instruction				
MW 16-hour Safety Course		Gas Turbine Familiarization	Vibration Analysis	UBC Rigging & Signaler Qualification Certificate
		Gas Turbine Qualification		Powered Industrial Truck Operator Qualification
		Steam Turbine Qualification		Aerial Lift Qualification
		Conveyor & Monorail Qualification		Scaffold Erector Qualification
		Pump Repair Technician Level 1		Certified SMAW
		MOV Repair		Certified GMAW
				Certified FCAW
				Certified GTAW

TOTAL MINIMUM HOURS: 4-year Program 5,200 hours; 5-year program 6,500 hours