

Industrial Mechanic (Millwright) RSOS (2016) Subtask to Unit Comparison

	RSOS Subtask	Manitoba Unit(s)
A – PER	FORMS COMMON OCCUPATIONA	
	Performs safety-related functions.	
A-1.01	Uses personal protective equipment (PPE) and safety equipment.	A1 Trade Safety Awareness
		A2 Safety
		A7 Tools and Equipment
A-1.02	Maintains safe work environment.	A1 Trade Safety Awareness
		A2 Safety
		A7 Tools and Equipment
A-1.03	Protects the environment.	A1 Trade Safety Awareness
		A2 Safety
A-1.04	Performs lock-out/tag-out and zero energy procedures.	A1 Trade Safety Awareness
		A2 Safety
	Uses tools and equipment.	
A-2.01	Uses hand and portable power tools.	A1 Trade Safety Awareness
		A2 Safety
		A7 Tools and Equipment
		A12 Grinders
A 0 00	Hannahan mankinan	A13 Power Metal Saws
A-2.02	Uses shop machines.	A1 Trade Safety Awareness
		A2 Safety
		A7 Tools and Equipment A12 Grinders
		A13 Power Metal Saws
A-2.03	Uses access equipment.	A1 Trade Safety Awareness
A-2.00	Oses access equipment.	A2 Safety
		A7 Tools and Equipment
		A16 Access Equipment
		71107100000 Equipment
Task A-3	Performs routine trade tasks.	
A-3.01	Plans work.	A1 Trade Safety Awareness
		A2 Safety
		A5 Communications
		B2 Job Planning
A-3.02	Fabricates workpiece.	A11 Welding I
A-3.03	Lubricates systems and	D9 Introduction to Commissioning
	components.	
A-3.04	Performs leveling of components and systems.	A15 Hoisting, Lifting, Rigging and Moving
		A16 Access Equipment
A-3.05	Uses fastening and retaining devices.	I2 Introduction to Commissioning
A-3.06	Performs material identification.	A10 Metallurgy
A-3.07	Performs heat treatment of metal.	A10 Metallurgy
A-3.08	Uses mechanical drawings and schematics.	A6 Drawings and Sketching

	RSOS Subtask	Manitoba Unit(s)
A – PEF	RFORMS COMMON OCCUPATIONA	AL SKILLS
Task A-	4 Uses communication and mentoring	techniques.
A-4.01	Uses communication techniques.	A5 Communications
A-4.02	Uses mentoring techniques.	D2 Journeyperson Trainer
T1 A 1		
	5 Performs measuring and layout.	T
A5.01	Prepares work area, tools and materials.	A8 Measuring and Layout
A5.02	Measures material and components.	A8 Measuring and Layout
A5.03	Lays out components.	A8 Measuring and Layout
A5.04	Maintains precision measuring and layout tools.	A8 Measuring and Layout
Task A-	6 Performs cutting and welding operat	
A6.01	Cuts material with gas and plasma	A11 Welding I
	arc cutting equipment.	
		B3 Welding II
A6.02	Joins material using oxy-fuel welding equipment.	A11 Welding I
		B3 Welding II
A6.03	Welds material using shielded arc (SMAW) welding equipment.	A11 Welding I
		B3 Welding II
A6.04	Welds material with gas metal arc welding (GMAW) equipment.	A11 Welding I
	, , ,	B3 Welding II
A6.05	Welds material with gas tungsten arc welding (GTAW) equipment (NOT	A11 Welding I
	COMMON CORE).	DO WALE AND
40.00	I NA	B3 Welding II
A6.06	Maintains welding equipment.	A11 Welding I
		B3 Welding II

B – PEI	RFORMS RIGGING, HOISTING/LIFT	TING AND MOVING
	7 Plans rigging, hoisting/lifting and mo	
B7.01	Determines load.	A15 Hoisting, Lifting, Rigging and Moving
		A16 Access Equipment
B7.02	Selects rigging equipment.	A15 Hoisting, Lifting, Rigging and Moving
		A16 Access Equipment
B7.03	Selects hoisting/lifting and moving equipment.	A15 Hoisting, Lifting, Rigging and Moving
		A16 Access Equipment
B.7.04	Secures area.	A15 Hoisting, Lifting, Rigging and Moving
		A16 Access Equipment
Task B-	8 Rigs, hoists/lifts and moves load.	
B8.01	Sets up rigging, hoisting/lifting and moving equipment.	A15 Hoisting, Lifting, Rigging and Moving
		A16 Access Equipment
B8.02	Performs hoist/lift and move.	A15 Hoisting, Lifting, Rigging and Moving
		A16 Access Equipment
B8.03	Maintains rigging, hoisting/lifting and moving equipment.	A15 Hoisting, Lifting, Rigging and Moving
		A40.A E : .
		A16 Access Equipment

Task C-9	Services prime movers.	
C9.01	Installs prime movers.	D5 Prime Movers
C9.02	Diagnoses prime movers.	D5 Prime Movers
C9.03	Maintains prime movers.	D5 Prime Movers
C9.04	Repairs prime movers.	D5 Prime Movers
03.04	Repairs prime movers.	DOT TIME MOVERS
Task C-1	0 - Services shafts, bearings and sea	ıls.
C10.01	Installs shafts, bearings and seals.	B7 Bearings, Seals and Gaskets
C10.02	Diagnoses shafts, bearings and	B7 Bearings, Seals and Gaskets
010.02	seals.	Dr Bearings, Geals and Caskets
C10.03	Maintains shafts, bearings and seals.	B7 Bearings, Seals and Gaskets
C10.04	Repairs shafts, bearings and seals.	B7 Bearings, Seals and Gaskets
	1 – Services couplings, clutches and	
C11.01	Installs couplings, clutches and brakes.	B8 Couplings and Shafts
		B9 Clutches and Brakes
C11.02	Diagnoses couplings, clutches and brakes.	B8 Couplings and Shafts
		B9 Clutches and Brakes
C11.03	Maintains couplings, clutches and brakes.	B8 Couplings and Shafts
		B9 Clutches and Brakes
C11.04	Repairs couplings, clutches and brakes.	B8 Couplings and Shafts
		B9 Clutches and Brakes
Task 12-	-Services chain and belt drive system	S.
C12.01	Installs chain and belt drive systems.	B10 Chain and Belt Drive Systems and Gear Drives
C12.02	Diagnoses chain and belt drive systems.	B10 Chain and Belt Drive Systems and Gear Drives
C12.03	Maintains chain and belt drive systems.	B10 Chain and Belt Drive Systems and Gear Drives
C12.04	Repairs chain and belt drive systems.	B10 Chain and Belt Drive Systems and Gear Drives
	-Services gear systems.	
C13.01	Installs gear systems.	B10 Chain and Belt Drive Systems and Gear Drives
C13.02	Diagnoses gear systems.	B10 Chain and Belt Drive Systems and Gear Drives
C13.03	Maintains gear systems.	B10 Chain and Belt Drive Systems and Gear Drives
C13.04	Repairs gear systems.	B10 Chain and Belt Drive Systems and Gear Drives
Tools 4.4	Doubouwa ahaft alimumant nuasadiwa	•
	- Performs shaft alignment procedure	
C14.01	Performs rough alignment.	B6 Shaft Alignment I
044.00	Doutouse diel - Barrier - 11	C1 Shaft Alignment II
C14.02	Performs dial alignment.	B6 Shaft Alignment I
044.00	Doute were leaves l'access	C1 Shaft Alignment II
C14.03	Performs laser alignment.	B6 Shaft Alignment I
		C1 Shaft Alignment II
D SERV	VICES MATERIAL HANDLING / PROCI	ECC CVCTEMC
	5 – Services robotics and automated 6	
D15.01	Installs robotics and automated	D11 Robotics and Automated Equipment
D15.02	equipment. Diagnoses robotics and automated	D11 Robotics and Automated Equipment
D15.03	equipment. Maintains robotics and automated	D11 Robotics and Automated Equipment
D15.04	equipment. Repairs robotics and automated	D11 Robotics and Automated Equipment
	equipment.	

Convious fans and blavers	
	DE Drive Message
	D5 Prime Movers
	D5 Prime Movers
	D5 Prime Movers
Repairs fans and blowers.	D5 Prime Movers
7 – Services pumps.	
	C4 Pumps
Installs compressors.	C2 Compressors I
	C3 Compressors II
Diagnoses compressors.	C2 Compressors I
	C3 Compressors II
Maintains compressors.	C2 Compressors I
	C3 Compressors II
Repairs compressors.	C2 Compressors I
	C3 Compressors II
2 - Sarvicas process pining tanks a	and containers
	C8 Piping Systems and Process Tanks and Containers
containers.	Corriping dystems and riocess ranks and containers
Installs process piping.	C8 Piping Systems and Process Tanks and Containers
Diagnoses process tanks and containers.	C8 Piping Systems and Process Tanks and Containers
Diagnoses process piping.	C8 Piping Systems and Process Tanks and Containers
Maintains process tanks and containers.	C8 Piping Systems and Process Tanks and Containers
Maintains process piping.	C8 Piping Systems and Process Tanks and Containers
Repairs process tanks and	C8 Piping Systems and Process Tanks and Containers
Repairs process piping.	C8 Piping Systems and Process Tanks and Containers
) Comilege conveying systems	
	D44 Communication Constants
	B11 Conveying Systems
	B11 Conveying Systems
 	B11 Conveying Systems
Repairs conveying systems.	B11 Conveying Systems
/ICES FLUID POWER SYSTEMS	
1 Services hydraulic systems.	
Installs hydraulic systems.	C6 Hydraulic Systems I
	D6 Hydraulic Systems II
Diagnoses hydraulic systems.	C6 Hydraulic Systems I
	D6 Hydraulic Systems II
Maintains hydraulic systems.	C6 Hydraulic Systems I
	D6 Hydraulic Systems II
Repairs hydraulic systems.	C6 Hydraulic Systems I
	D6 Hydraulic Systems II
2 Services pneumatic and vacuum	evetome
	Repairs compressors. 9 - Services process piping, tanks a Installs process tanks and containers. Installs process piping. Diagnoses process tanks and containers. Diagnoses process piping. Maintains process tanks and containers. Maintains process piping. Repairs process tanks and containers. Repairs process piping. O - Services conveying systems. Installs conveying systems. Diagnoses conveying systems. Maintains conveying systems. Repairs conveying systems. Repairs conveying systems. VICES FLUID POWER SYSTEMS 1 Services hydraulic systems. Diagnoses hydraulic systems. Diagnoses hydraulic systems. Maintains hydraulic systems.

	systems.	
		D7 Pneumatic Systems II
		C9 Vacuum Systems
E22.02	Diagnoses pneumatic and vacuum systems.	C7 Pneumatic Systems I
		D7 Pneumatic Systems II
		C9 Vacuum Systems
E22.03	Maintains pneumatic and vacuum systems.	C7 Pneumatic Systems I
		D7 Pneumatic Systems II
		C9 Vacuum Systems
E22.04	Repairs pneumatic and vacuum systems.	C7 Pneumatic Systems I
		D7 Pneumatic Systems II
		C9 Vacuum Systems
	3 Performs preventive and predictive	
F23.01	Performs preventative maintenance	D10 Preventative and Predictive Maintenance
F23.02	activities	
FZ3.0Z		D10 Proventative and Predictive Maintenance
	Performs vibration analysis procedures.	D10 Preventative and Predictive Maintenance
F23.03	Performs vibration analysis procedures. Performs balancing procedures.	D10 Preventative and Predictive Maintenance
F23.03 F23.04	Performs vibration analysis procedures.	
	Performs vibration analysis procedures. Performs balancing procedures. Performs non-destructive testing	D10 Preventative and Predictive Maintenance
F23.04	Performs vibration analysis procedures. Performs balancing procedures. Performs non-destructive testing (NDT) procedures.	D10 Preventative and Predictive Maintenance D10 Preventative and Predictive Maintenance
F23.04 F23.05 F23.06	Performs vibration analysis procedures. Performs balancing procedures. Performs non-destructive testing (NDT) procedures. Performs fluid analysis procedures. Performs predictive maintenance activities.	D10 Preventative and Predictive Maintenance
F23.04 F23.05 F23.06 Task F24	Performs vibration analysis procedures. Performs balancing procedures. Performs non-destructive testing (NDT) procedures. Performs fluid analysis procedures. Performs predictive maintenance activities.	D10 Preventative and Predictive Maintenance
F23.04 F23.05 F23.06	Performs vibration analysis procedures. Performs balancing procedures. Performs non-destructive testing (NDT) procedures. Performs fluid analysis procedures. Performs predictive maintenance activities. I - Commissions and decommissions Commissions systems and	D10 Preventative and Predictive Maintenance
F23.04 F23.05 F23.06 Task F24	Performs vibration analysis procedures. Performs balancing procedures. Performs non-destructive testing (NDT) procedures. Performs fluid analysis procedures. Performs predictive maintenance activities.	D10 Preventative and Predictive Maintenance

Based on the Red Seal Occupational Standard (RSOS) 2016