

## Power Electrician POS (2017) Subtask to Unit Comparison

	POS Subtask	Manitoba Unit(s)
Task A-1	- Performs safety-related functions.	
A-1.01	Uses personal protective equipment (PPE) and safety equipment.	A5 Residential Electrical Code
A-1.02	Maintains safe work environment.	A2 Trade Safety Awareness
A-1.03	Performs lock-out and tagging procedures.	A2 Trade Safety Awareness
A-1.04	Installs and maintains temporary protective grounds (TPGs).	A2 Trade Safety Awareness
Took A 2	Lices and maintains tools and equip	mont
A-2.01	<ul> <li>Uses and maintains tools and equipment.</li> </ul>	A2 Trade Safety Awareness
A-2.01	Uses access equipment.	A2 Trade Safety Awareness
	Uses rigging, hoisting and lifting	A4 Trade Related Math and Science
A-2.03	equipment.	A6 Residential Wiring Practices
		B5 Electronic Concepts I
A-2.04	Uses technical instruments and	C4 Electronic Concepts II
A-2.04	testers.	D4 Power Electronics
		DTT OWER EROUGHIOS
Task A-3	- Organizes work and handles materia	ils.
	Organizes work and uses	
A-3.01	documentation and reference materials.	A3 Computer and Communication Skills
A-3.02	Finalizes required documentation.	A3 Computer and Communication Skills
A-3.03	Fills and recovers insulating gas-filled equipment.	C6 Interrupting Equipment and Electrical Bus Networks
A-3.04	Fills and recovers insulating oil-filled equipment.	C6 Interrupting Equipment and Electrical Bus Networks
	- Uses communication and mentoring	
A-4.01	Uses communication techniques.	A3 Computer and Communication Skills
A-4.02	Uses mentoring techniques.	A1 Learning About Work D8 Journeyperson Trainer
Took A 5	Applies knowledge and technical ski	
1 45K A-3	- Applies knowledge and technical ski	
A-5.01	Interprets plans, drawings and specifications.	A6 Residential Wiring Practices B2 Commercial Code Applications
	Analyzes and troubleshoots problems.	A8 DC Circuit Analysis
A-5.02		B3 AC Fundamentals
		C2 Three Phase Circuit Analysis
A-5.03	Uses computers and software.	A3 Computer and Communication Skills D3 Automation
A-5.04	Plans project tasks and procedures.	C1 Electrical Code for Industrial Applications I
Tack B. G	- Analyzes system requirements.	
B-6.01	Determines operating procedures.	C3 Power Transformers
ו ט.ט-ם	Determines operating procedures.	C2 Three Phase Circuit Analysis
B-6.02	Performs loading calculations.	C3 Power Transformers

<ul><li>Performs energy control.</li><li>Performs high voltage switching.</li></ul>				
i onomo mgn voltago ovitoring.	C1 Electrical Code for Industrial Applications I			
Performs low voltage switching.	C1 Electrical Code for Industrial Applications I			
Controls mechanical systems.	C7 Governor and Excitation Equipment			
	gh voltage equipment.			
Installs and maintains automatic circuit reclosers (ACRs).	C6 Interrupting Equipment and Electrical Bus Networks			
Installs and maintains breakers.	C6 Interrupting Equipment and Electrical Bus Networks			
Installs and maintains disconnects.	C6 Interrupting Equipment and Electrical Bus Networks			
Task C-9 – Installs and maintains reactive high voltage equipment.				
Installs and maintains transformers	B2 Commercial Code Applications			
and reactors.	C2 Three Phase Circuit Analysis			
Leafalla en Leaglatella en latina en la	C3 Power Transformers			
	B3 AC Fundamentals			
	C2 Three Phase Circuit Analysis			
transformers.	C3 Power Transformers			
	No see a			
	C1 Electrical Code for Industrial Applications I D1 Electrical Code for Industrial Applications II			
	C6 Interrupting Equipment and Electrical Bus Networks			
	C6 Interrupting Equipment and Electrical Bus Networks			
	D5 Power Quality			
Installs and maintains static VAR	D4 Power Electronics			
Installs and maintains high voltage	D4 Power Electronics			
1 - Installs and maintains low voltage d				
	C3 Power Transformers			
Installs and maintains breakers.	C6 Interrupting Equipment and Electrical Bus Networks			
Installs and maintains buswork and load centers.	A5 Residential Electrical Code B1 Commercial Electrical Code C1 Electrical Code for Industrial Applications I C6 Interrupting Equipment and Electrical Bus Networks D1 Electrical Code for Industrial Applications II			
	tage equipment.			
systems.	D2 Metering			
Installs and maintains battery banks and chargers, and power supplies.	D5 Power Quality			
Installs and maintains cathodic protection systems.	B2 Commercial Code Applications D1 Electrical Code for Industrial Applications II			
	1 2 1 1 2 2 2			
3 – Installs and maintains building syst	ems equipment.			
Installs and maintains heating, ventilation and air conditioning (HVAC)	C5 Industrial Control Systems			
Installs and maintains lighting systems.	A5 Residential Electrical Code B1 Commercial Electrical Code C1 Electrical Code for Industrial Applications I			
	Controls mechanical systems.  - Installs and maintains interruptive hider Installs and maintains automatic circuit reclosers (ACRs).  Installs and maintains breakers.  Installs and maintains disconnects.  - Installs and maintains reactive high value Installs and maintains regulating and capacitive equipment.  Installs and maintains instrument transformers.  O - Installs and maintains other high value Installs and maintains grounding systems.  Installs and maintains buswork.  Installs and maintains lightning and surge arrestors.  Installs and maintains static VAR compensators (SVCs).  Installs and maintains high voltage direct current (HVDC) equipment.  1 - Installs and maintains low voltage direct current (HVDC) equipment.  Installs and maintains buswork and load centers.  Installs and maintains buswork and load centers.			

Task E-14	Task E-14 – Installs and maintains generators and synchronous condensers.				
E-14.01	Installs and maintains high voltage generators and synchronous condensers.	C8 AC Machines			
E-14.02	Installs and maintains low voltage generators.	C8 AC Machines			
E-14.03	Installs and maintains excitation systems.	C7 Governor and Excitation Equipment			
E-14.04	Installs and maintains governor systems.	C7 Governor and Excitation Equipment			
Task E-15	5 - Installs and maintains motors.				
E-15.01	Installs and maintains high voltage motors.	C8 AC Machines			
E-15.02	Installs and maintains low voltage motors.	C8 AC Machines			
Task F-16	5 - Installs and maintains protection sy	stems.			
F-16.01	Installs and maintains protective relay systems.	D7 Relay and Protection Systems			
F-16.02	Installs and maintains fire-detection and suppression equipment.	D1 Electrical Code for Industrial Applications II			
Task F-17	<ul><li>Installs and maintains control syste</li></ul>	ms.			
F-17.01	Installs and maintains relay and microprocessor-based (PLC) control and monitoring systems.	C5 Industrial Control Systems D3 Automation			
F-17.02	Installs and maintains instrumentation equipment.	D2 Metering			
F-17.03	Installs and maintains AC and DC motor controls.	B4 Motor Controls B6 DC Machines and Controls C5 Industrial Control Systems C8 AC Machines			
Task F-18 – Installs and maintains monitoring systems.					
F-18.01	Installs and maintains building security systems.	D3 Automation			
F-18.02	Installs and maintains annunciation (monitoring) systems.	D1 Electrical Code for Industrial Applications II D7 Relay and Protection Systems			



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