Apprenticeship Manitoba

Ironworker (Generalist) NOA (2015) Subtask-to-Unit Comparison

	NOA Subtask	Manitoba Unit(s)
Tack	1 - Interprets occupational documentati	
1.01		A7 Communication and Trade Documentation
1.01	Interprets drawings and specifications.	
		A8 Welding I
		A10 Drawings I
		A12 Structural Steel I
		A13 Reinforcing I
		B4 Drawings II
		B9 Machinery and Equipment I
		C4 Work Planning II
		C5 Drawings III
		C12 Ornamental Ironwork II
1.02	Interprets standards, regulations and	A1 Learning About Work
	procedures.	C1 Journeyperson Trainer
		C14 Pre-Interprovincial Review
	2 - Communicates in the workplace.	
2.01	Communicates with co-workers.	A1 Learning About Work
		A7 Communication and Trade Documentation
		C1 Journeyperson Trainer
2.02	Communicates with other disciplines.	A1 Learning About Work
		A7 Communication and Trade Documentation
		C1 Journeyperson Trainer
2.03	Communicates with apprentices.	A1 Learning About Work
		A7 Communication and Trade Documentation
		C1 Journeyperson Trainer
2.04	Uses hand signals.	A1 Learning About Work
	3	A5 Rigging I
		A7 Communication and Trade Documentation
		A11 Cranes I: Fundamentals
		B1 Rigging II
		B5 Cranes II: Tower Cranes
		C1 Journeyperson Trainer
		C6 Cranes III: Electric Overhead-Travelling Cranes
2.05	Communicates electronically.	A6 Computer Applications
2.00	Communication clocaron loany.	B6 Structural Steel II
		B9 Machinery and Equipment I
		B11 Reinforcing II
		C4 Work Planning II
		C7 Structural Steel III
		C10 Machinery and Equipment II
Task	3 - Uses and maintains tools and equip	ment.
3.01	Uses hand tools and measuring	A3 Tools and Equipment
	equipment.	
3.02	Uses power tools.	A3 Tools and Equipment
3.03	Uses bending tools and equipment.	A3 Tools and Equipment
2.00		B2 Welding II
		B11 Reinforcing II
		C3 Welding III
		C11 Miscellaneous Ironwork II
		C12 Ornamental Ironwork
2.04	Lisos powder actusted teals	
3.04	Uses powder-actuated tools.	A3 Tools and Equipment
3.05	Uses aerial work platforms.	A3 Tools and Equipment

3.06Uses ladd3.07Uses scaft3.08Uses pers (PPE).3.09Uses surve		A4 Access Equipment A3 Tools and Equipment A4 Access Equipment A3 Tools and Equipment A4 Access Equipment A4 Access Equipment A2 Trade Safety Awareness A3 Tools and Equipment
3.07Uses scaff3.08Uses pers (PPE).	folding.	A4 Access Equipment A3 Tools and Equipment A4 Access Equipment A2 Trade Safety Awareness
3.08 Uses pers (PPE).	-	A3 Tools and Equipment A4 Access Equipment A2 Trade Safety Awareness
3.08 Uses pers (PPE).	-	A4 Access Equipment A2 Trade Safety Awareness
(PPE).	onal protective equipment	A2 Trade Safety Awareness
(PPE).	onal protective equipment	
		A 3 TOOIS and Equipment
3.09 Uses surv		
3.09 Uses surv	oving oquinmont	A4 Access Equipment A3 Tools and Equipment
	eying equipment.	A12 Structural Steel I
		B6 Structural Steel II
		B8 Pre-Cast Concrete I
		B9 Machinery and Equipment I
		C4 Work Planning II
		C7 Structural Steel III
		C10 Machinery and Equipment II
		C12Ornamental Ironwork
3.10 Uses weld	ing equipment.	A3 Tools and Equipment
		A8 Welding I
		B2 Welding II
		C3 Welding III
3.11 Uses therr	nal and oxy-fuel cutting	A3 Tools and Equipment
equipment	<u>.</u>	A9 Oxy-Fuel Cutting
Task 4 - Organize		
4.01 Organizes	materials and supplies.	A1 Learning About Work
		A12 Structural Steel I
		A13 Reinforcing I
		B6 Structural Steel II
		B7 Pre-Engineered Structures I B8 Pre-Cast Concrete I
		B9 Machinery and Equipment I
		B10 Miscellaneous Ironwork I
		B11 Reinforcing II
		C4 Work Planning II
		C7 Structural Steel III
		C8 Pre-Engineered Structures II
		C9 Pre-Cast Concrete II
		C10 Machinery and Equipment II
		C11 Miscellaneous Ironwork II
		C12 Ornamental Ironwork
4.02 Marks layo	outs.	A1 Learning About Work
		A12 Structural Steel I
		A13 Reinforcing I
		B6 Structural Steel II
		B7 Pre-Engineered Structures I
		B8 Pre-Cast Concrete I
		B9 Machinery and Equipment I
		B10 Miscellaneous Ironwork I
		B11 Reinforcing II
		C4 Work Planning II
		C7 Structural Steel III
		C8 Pre-Engineered Structures II C9 Pre-Cast Concrete II
		C10 Machinery and Equipment II
		C10 Machinery and Equipment if
		C12 Ornamental Ironwork
4.03 Maintains	safe work environment.	A1 Learning About Work
		A2 Trade Safety Awareness
		B3 Work Planning I
		C1 Journeyperson Trainer

C4 Work Planning II 4.04 Assesses site hazards. A1 Learning About Work A2 Trade Sefet: Augure and S	
A2 Trade Safety Awareness	
B3 Work Planning I	
C1 Journeyperson Trainer	
C4 Work Planning II	
4.05 Plans work tasks. A3 Tools and Equipment	
A4 Access Equipment	
A5 Rigging I	
A8 Welding I	
A9 Oxy-Fuel Cutting	
A11 Cranes I: Fundamentals	
A12 Structural Steel I	
A13 Reinforcing I A14 Pre-Stressed Concrete: Funda	ve e e tele
	mentais
B3 Work Planning I C4 Work Planning II	
Task 5 - Selects rigging equipment	
5.01 Matches load to lift capability. A5 Rigging I	
B1 Rigging II	
C2 Rigging III	
5.02 Inspects rigging equipment. A5 Rigging I	
B1 Rigging II	
C2 Rigging III	
5.03 Maintains rigging equipment. A5 Rigging I	
B1 Rigging II	
C2 Rigging III	
Tool: C. Hoop baisting and lifting againment	
Task 6 - Uses hoisting and lifting equipment.6.01Uses hoisting equipment.A5 Rigging I	
All Cranes I: Fundamentals	
B1 Rigging II	
B5 Cranes II: Tower Cranes	
C2 Rigging III	
C6 Cranes III: Electric Overhead-Tr	avelling Cranes
6.02 Uses lifting equipment. A5 Rigging I	
A11 Cranes I: Fundamentals	
B1 Rigging II	
B5 Cranes II: Tower Cranes	
C2 Rigging III	
C6 Cranes III: Electric Overhead-Tr	avelling Cranes
6.03 Attaches rigging to load. A5 Rigging I	
A11 Cranes I: Fundamentals	
B1 Rigging II	
B5 Cranes II: Tower Cranes	
C2 Rigging III	
C6 Cranes III: Electric Overhead-Tr	aveiling Granes
Task 7 – Select, assemble and erect cranes and components.	
7.01 Assesses crane site limitations. A11 Cranes I: Fundamentals	
B5 Cranes II: Tower Cranes	
C6 Cranes III: Electric Overhead-Tr	avelling Cranes
7.02 Determines crane position. A11 Cranes I: Fundamentals	
B5 Cranes II: Tower Cranes	
	avelling Cranes
C6 Cranes III: Electric Overhead-Tr	
C6 Cranes III: Electric Overhead-Tr	
C6 Cranes III: Electric Overhead-Tr 7.03 Prepares bases. A11 Cranes I: Fundamentals	avelling Cranes

	NOA Subtask	Manitoba Unit(s)
		B5 Cranes II: Tower Cranes
		C6 Cranes III: Electric Overhead-Travelling Cranes
	3 - Disassembles cranes.	
8.01	Disassembles crane components.	A11 Cranes I: Fundamentals
		B5 Cranes II: Tower Cranes
		C6 Cranes III: Electric Overhead-Travelling Cranes
0.00	Prepares crane and components for	A11 Cranes I: Fundamentals
8.02	transport.	B5 Cranes II: Tower Cranes
		C6 Cranes III: Electric Overhead-Travelling Cranes
Task 9) - Fabricates on-site.	
9.01	Cuts material.	A8 Welding I
3.01	Guts material.	A9 Oxy-Fuel Cutting
		A12 Structural Steel I
		A13 Reinforcing I
		B2 Welding II
		B6 Structural Steel II
		B10 Miscellaneous Ironwork I
		B11 Reinforcing II
		C7 Structural Steel III
		C11 Miscellaneous Ironwork II
		C12 Ornamental Ironwork
9.02	Bends material.	A8 Welding I
0.02	Donao matonal.	A9 Oxy-Fuel Cutting
		A12 Structural Steel I
		A13 Reinforcing I
		B2 Welding II
		B6 Structural Steel II
		B10 Miscellaneous Ironwork I
		B11 Reinforcing II
		C7 Structural Steel III
		C11 Miscellaneous Ironwork II
		C12 Ornamental Ironwork
Task 1	0 - Installs reinforcing material.	
10.01	Places reinforcing material.	A13 Reinforcing I
		B11 Reinforcing II
10.02	Ties material.	B11 Reinforcing II A13 Reinforcing I
10.02		B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II
10.02 10.03	Ties material. Joins material.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I
		B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II
10.03	Joins material.	B11 Reinforcing I A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing I B11 Reinforcing II
10.03 Task 1	Joins material.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing I B11 Reinforcing II g systems.
10.03	Joins material.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II A13 Reinforcing II A14 Pre-Stressed Concrete: Fundamentals
10.03 Task 1	Joins material.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post-
10.03 Task 1	Joins material.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post-Tensioning
10.03 Task 1 11.01	Joins material. 1 - Places pre-stressed/post-tensioning Lays out profile.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing I B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning
10.03 Task 1	Joins material.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals
10.03 Task 1 11.01	Joins material. 1 - Places pre-stressed/post-tensioning Lays out profile.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post-
10.03 Task 1 11.01	Joins material. 1 - Places pre-stressed/post-tensioning Lays out profile.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning
10.03 Task 1 11.01 11.02	Joins material.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Fundamentals C13 Pre-Stressed Concrete: Sonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning
10.03 Task 1 11.01	Joins material. 1 - Places pre-stressed/post-tensioning Lays out profile.	B11 Reinforcing I A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing I B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals
10.03 Task 1 11.01 11.02	Joins material.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post-
10.03 Task 1 11.01 11.02	Joins material.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning
10.03 Task 1 11.01 11.02 11.03	Joins material. 1 - Places pre-stressed/post-tensioning Lays out profile. Places tendons and accessories. Installs bursting steel and anchorages.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning
10.03 Task 1 11.01 11.02	Joins material.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning
10.03 Task 1 11.01 11.02 11.03	Joins material. 1 - Places pre-stressed/post-tensioning Lays out profile. Places tendons and accessories. Installs bursting steel and anchorages.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Fundamentals
10.03 Task 1 11.01 11.02 11.03	Joins material. 1 - Places pre-stressed/post-tensioning Lays out profile. Places tendons and accessories. Installs bursting steel and anchorages.	B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II A13 Reinforcing I B11 Reinforcing II B11 Reinforcing II g systems. A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Unbonded Monostrand Post- Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Bonded Post-Tensioning

	NOA Subtask	Manitoba Unit(s)
11.05	Protects exposed tendons.	A14 Pre-Stressed Concrete: Fundamentals
		B12 Pre-Stressed Concrete: Unbonded Monostrand Post-
		Tensioning
		C13 Pre-Stressed Concrete: Bonded Post-Tensioning
Teels 4		
	2 - Stresses tendons.	A14 Pre-Stressed Concrete: Fundamentals
12.01	Sets up stressing equipment.	
		B12 Pre-Stressed Concrete: Unbonded Monostrand Post-
		Tensioning C12 Dra Streaged Congrate: Banded Dept Tensioning
12.02	Tanaiana tandana	C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals
12.02	Tensions tendons.	B12 Pre-Stressed Concrete: Fundamentals B12 Pre-Stressed Concrete: Unbonded Monostrand Post-
		Tensioning C12 Pro Strossod Concreto: Rended Post Tensioning
12.03	Cuto and constandana	C13 Pre-Stressed Concrete: Bonded Post-Tensioning A14 Pre-Stressed Concrete: Fundamentals
12.03	Cuts and caps tendons.	B12 Pre-Stressed Concrete: Unbonded Monostrand Post-
		Tensioning C13 Pre-Stressed Concrete: Bonded Post-Tensioning
12.04	Removes stressing equipment	A14 Pre-Stressed Concrete: Fundamentals
12.04	Removes stressing equipment.	B12 Pre-Stressed Concrete: Unbonded Monostrand Post-
		Tensioning
		C13 Pre-Stressed Concrete: Bonded Post-Tensioning
12.05	De-stresses tendons.	A14 Pre-Stressed Concrete: Fundamentals
12.00		B12 Pre-Stressed Concrete: Unbonded Monostrand Post-
		Tensioning
		C13 Pre-Stressed Concrete: Bonded Post-Tensioning
Task 1	3 - Grouts tendons.	
13.01	Sets up grouting equipment.	C13 Pre-Stressed Concrete: Bonded Post-Tensioning
13.02	Installs grouts.	C13 Pre-Stressed Concrete: Bonded Post-Tensioning
	¥	Ť
Task 1	4 - Installs primary and secondary structure	
14.01	Erects falsework.	A12 Structural Steel I
		B6 Structural Steel II
		B7 Pre-Engineered Structures I
		B8 Pre-Cast Concrete I
		C7 Structural Steel III
		C8 Pre-Engineered Structures II
1100		C9 Pre-Cast Concrete II
14.02	Attaches structural members.	A12 Structural Steel I
		B6 Structural Steel II
		B7 Pre-Engineered Structures I
		B8 Pre-Cast Concrete I
		C7 Structural Steel III
		C8 Pre-Engineered Structures II C9 Pre-Cast Concrete II
14.03	Lovels, plumbs and aligns structural	A12 Structural Steel I
14.03	Levels, plumbs and aligns structural members.	B6 Structural Steel II
		B7 Pre-Engineered Structures I
		B8 Pre-Cast Concrete I
		C7 Structural Steel III
		C8 Pre-Engineered Structures II
		C9 Pre-Cast Concrete II
14.04	Completes installation of structural	A12 Structural Steel I
	members.	B6 Structural Steel II
		B7 Pre-Engineered Structures I
		B8 Pre-Cast Concrete I
		C7 Structural Steel III
		C8 Pre-Engineered Structures II
		C9 Pre-Cast Concrete II

	NOA Subtask	Manitoba Unit(s)
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	5 - Installs ornamental components an	
15.01	Installs curtain walls.	A12 Structural Steel I
		B3 Work Planning I
		B6 Structural Steel II
		B10 Miscellaneous Ironwork I
45.00		C12 Ornamental Ironwork
15.02	Installs miscellaneous components.	B10 Miscellaneous Ironwork I
		C11 Miscellaneous Ironwork II
Task 1	6 - Installs conveyors, machinery and elements	equipment.
16.01	Installs material handling systems.	B9 Machinery and Equipment I
10.01	motalio material nanaling systems.	C10 Machinery and Equipment II
16.02	Aligns material handling systems.	B9 Machinery and Equipment I
10.02		C10 Machinery and Equipment II
16.03	Places machinery and equipment.	B9 Machinery and Equipment I
10.00		C10 Machinery and Equipment II
Task 1	7 - Repairs components.	
17.01	Assesses current condition of	A12 Structural Steel I
	components.	B6 Structural Steel II
		B7 Pre-Engineered Structures I
		B9 Machinery and Equipment I
		B10 Miscellaneous Ironwork I
		C7 Structural Steel III
		C8 Pre-Engineered Structures II
		C10 Machinery and Equipment II
		C11 Miscellaneous Ironwork II
		C12 Ornamental Ironwork
17.02	Field-fabricates components.	A12 Structural Steel I
		B6 Structural Steel II
		B7 Pre-Engineered Structures I
		B9 Machinery and Equipment I
		B10 Miscellaneous Ironwork I
		C7 Structural Steel III
		C8 Pre-Engineered Structures II
		C10 Machinery and Equipment II
		C11 Miscellaneous Ironwork II
		C12 Ornamental Ironwork
17.03	Replaces components.	A12 Structural Steel I
		B6 Structural Steel II
		B7 Pre-Engineered Structures I
		B9 Machinery and Equipment I
		B10 Miscellaneous Ironwork I
		C7 Structural Steel III
		C8 Pre-Engineered Structures II
		C10 Machinery and Equipment II
		C11 Miscellaneous Ironwork II
		C12 Ornamental Ironwork
17.04	Performs preventative maintenance.	A12 Structural Steel I
		B6 Structural Steel II
		B7 Pre-Engineered Structures I
		B9 Machinery and Equipment I
		B10 Miscellaneous Ironwork I
		C7 Structural Steel III
		C8 Pre-Engineered Structures II
		C10 Machinery and Equipment II
		C11 Miscellaneous Ironwork II
		C12 Ornamental Ironwork

NOA Subtask		Manitoba Unit(s)
Task 18 - Dismantles and removes structural,		mechanical and miscellaneous components.
18.01	Ensures decommissioning of structure	B6 Structural Steel II
	or components.	B7 Pre-Engineered Structures I
		B8 Pre-Cast Concrete I
		B9 Machinery and Equipment I
		B10 Miscellaneous Ironwork I
		C7 Structural Steel III
		C8 Pre-Engineered Structures II
		C9 Pre-Cast Concrete II
		C10 Machinery and Equipment II
		C11 Miscellaneous Ironwork II
18.02	Plans sequence of disassembly.	B6 Structural Steel II
		B7 Pre-Engineered Structures I
		B8 Pre-Cast Concrete I
		B9 Machinery and Equipment I
		B10 Miscellaneous Ironwork I
		C7 Structural Steel III
		C8 Pre-Engineered Structures II
		C9 Pre-Cast Concrete II
		C10 Machinery and Equipment II
		C11 Miscellaneous Ironwork II
18.03	Removes components.	B6 Structural Steel II
		B7 Pre-Engineered Structures I
		B8 Pre-Cast Concrete I
		B9 Machinery and Equipment I
		B10 Miscellaneous Ironwork I
		C7 Structural Steel III
		C8 Pre-Engineered Structures II
		C9 Pre-Cast Concrete II
		C10 Machinery and Equipment II
		C11 Miscellaneous Ironwork II



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