## Apprenticeship Manitoba

## Boilermaker NOA (2012) Subtask to Unit Comparison

	NOA Subtask	Manitoba Unit(s)
Task <sup>2</sup>	1 – Uses and maintains tools and equipn	
1.01	Maintains tools and equipment.	A4 Safety Equipment, W.C.B. and Interpersonal and Essential Skills E2 Hand and Power Tools E8 Power Tools Electric and Pneumatic E9 Instruments and Shop Equipment
1.02	Uses platforms and access equipment.	B1 Ropes B2 Hoisting B3 Wire Rope and Attachments A4 Safety Equipment, W.C.B. and Interpersonal and Essential Skills E2 Hand and Power Tools E8 Power Tools Electric and Pneumatic E9 Instruments and Shop Equipment
1.03	Uses aerial work platforms.	B4 Block and Tackle B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds B6 Lifting Practices A4 Safety Equipment, W.C.B. and Interpersonal and Essential Skills E2 Hand and Power Tools E8 Power Tools Electric and Pneumatic E9 Instruments and Shop Equipment
1.04	Maintains rigging equipment.	B1 Ropes B2 Hoisting B3 Wire Rope and Attachments B7 Advanced Block and Tackle B8 Advanced Cranes B9 Hoisting and Jacking Equipment and Engineered Lifts
Task	2 – Performs safety related functions.	
2.01	Uses personal protective equipment (PPE) and safety equipment.	A1 Trade Safety Awareness A2 Orientation I: Structure/Scope of Trade A3 Common Hazards A4 Safety Equipment, W.C.B. and Interpersonal and Essential Skills A5 Emergency First Aid and C.P.R.
2.02	Maintains personal protective equipment (PPE) and safety equipment.	A1 Trade Safety Awareness A2 Orientation I: Structure/Scope of Trade A3 Common Hazards A4 Safety Equipment, W.C.B. and Interpersonal and Essential Skills A5 Emergency First Aid and C.P.R.
2.03	Maintains safe work environment.	A1 Trade Safety Awareness A2 Orientation I: Structure/Scope of Trade A3 Common Hazards A4 Safety Equipment, W.C.B. and Interpersonal and Essential Skills A5 Emergency First Aid and C.P.R.
2.04	Monitors confined spaces.	A1 Trade Safety Awareness A2 Orientation I: Structure/Scope of Trade A3 Common Hazards A4 Safety Equipment, W.C.B. and Interpersonal and Essential Skills

	NOA Subtask	Manitoba Unit(s)
		A5 Emergency First Aid and C.P.R.
Test		
Task 3	8 – Organizes work.	C1 Basic Materials
3.01	Organizes project tasks and procedures.	C1 Basic Materials C2 Materials Preparation and Assembly C4 Introduction to Layout E1 Trade Mathematics One E7 Trade Mathematics Two E14 Trade Mathematics Three F4 Introduction to Other Heavy Industries A6 Orientation II: Journeywork A7 Pre-IP Review: Examination Review
3.02	Uses drawings and specifications.	C3 Basic Drafting C4 Introduction to Layout C5 Drawing Interpretation One C6 Layout and Fabricating C7 Drawing Interpretation Two
3.03	Handles materials and components.	C2 Materials Preparation and Assembly E4 Trade Related Components
3.04	Demobilizes site.	C2 Materials Preparation and Assembly E4 Trade Related Components A1 Trade Safety Awareness A2 Orientation I: Structure/Scope of Trade A3 Common Hazards A4 Safety Equipment, W.C.B. and Interpersonal and Essential Skills A5 Emergency First Aid and C.P.R.
Task 4	Performs cutting and welding activities	
4.01	Cuts material.	D2 Oxy-fuel Cutting D3 Cutting, Welding and Related Processes
4.02	Prepares joints for fitting.	D1 Electric Arc Welding D2 Oxy-fuel Cutting D3 Cutting, Welding and Related Processes
4.03	Fits joints.	<ul> <li>D1 Electric Arc Welding</li> <li>D2 Oxy-fuel Cutting</li> <li>D3 Cutting, Welding and Related Processes</li> <li>E6 Fibreglass fitting</li> <li>E13 Fitting</li> </ul>
4.04	Performs tack welds.	D1 Electric Arc Welding D2 Oxy-fuel Cutting D3 Cutting, Welding and Related Processes
Teek	Diana lift	
5.01	<b>Determines load.</b>	B1RopesB2HoistingB3Wire Rope and AttachmentsB4Block and TackleB5Wire Rope Drums, Aerial Access and Equipment andScaffoldsB7Advanced Block and TackleB8Advanced CranesB9Hoisting and Jacking Equipment and Engineered LiftsE1Trade Mathematics OneE7Trade Mathematics TwoE14Trade Mathematics Three
5.02	Performs pre-lift analysis.	B1 Ropes B2 Hoisting B3 Wire Rope and Attachments B4 Block and Tackle

	NOA Subtask	Manitoba Unit(s)
		<ul> <li>B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds</li> <li>B7 Advanced Block and Tackle</li> <li>B8 Advanced Cranes</li> <li>B9 Hoisting and Jacking Equipment and Engineered Lifts</li> <li>E1 Trade Mathematics One</li> <li>E7 Trade Mathematics Two</li> <li>E14 Trade Mathematics Three</li> </ul>
5.03	Selects rigging and hoisting equipment.	<ul> <li>B1 Ropes</li> <li>B2 Hoisting</li> <li>B3 Wire Rope and Attachments</li> <li>B4 Block and Tackle</li> <li>B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds</li> <li>B7 Advanced Block and Tackle</li> <li>B8 Advanced Cranes</li> <li>B9 Hoisting and Jacking Equipment and Engineered Lifts</li> <li>E1 Trade Mathematics One</li> <li>E7 Trade Mathematics Two</li> <li>E14 Trade Mathematics Three</li> </ul>
5.04	Secures lift area.	<ul> <li>B1 Ropes</li> <li>B2 Hoisting</li> <li>B3 Wire Rope and Attachments</li> <li>B4 Block and Tackle</li> <li>B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds</li> <li>B7 Advanced Block and Tackle</li> <li>B8 Advanced Cranes</li> <li>B9 Hoisting and Jacking Equipment and Engineered Lifts</li> <li>E1 Trade Mathematics One</li> <li>E7 Trade Mathematics Two</li> <li>E14 Trade Mathematics Three</li> </ul>
Task (	6 – Rigs load.	
6.01	Inspects rigging equipment.	<ul> <li>B1 Ropes</li> <li>B2 Hoisting</li> <li>B3 Wire Rope and Attachments</li> <li>B4 Block and Tackle</li> <li>B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds</li> <li>B7 Advanced Block and Tackle</li> <li>B8 Advanced Cranes</li> <li>B9 Hoisting and Jacking Equipment and Engineered Lifts</li> <li>E1 Trade Mathematics One</li> <li>E7 Trade Mathematics Two</li> <li>E14 Trade Mathematics Three</li> </ul>
6.02	Fabricates rigging equipment.	<ul> <li>B1 Ropes</li> <li>B2 Hoisting</li> <li>B3 Wire Rope and Attachments</li> <li>B4 Block and Tackle</li> <li>B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds</li> <li>B7 Advanced Block and Tackle</li> <li>B8 Advanced Cranes</li> <li>B9 Hoisting and Jacking Equipment and Engineered Lifts</li> <li>E1 Trade Mathematics One</li> <li>E7 Trade Mathematics Two</li> <li>E14 Trade Mathematics Three</li> </ul>
6.03	Inspects rigging equipment.	B1 Ropes B2 Hoisting

	NOA Subtask	Manitoba Unit(s)
		<ul> <li>B4 Block and Tackle</li> <li>B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds</li> <li>B7 Advanced Block and Tackle</li> <li>B8 Advanced Cranes</li> <li>B9 Hoisting and Jacking Equipment and Engineered Lifts</li> <li>E1 Trade Mathematics One</li> <li>E7 Trade Mathematics Two</li> <li>E14 Trade Mathematics Three</li> </ul>
6.04	Attaches rigging equipment to load.	<ul> <li>B1 Ropes</li> <li>B2 Hoisting</li> <li>B3 Wire Rope and Attachments</li> <li>B4 Block and Tackle</li> <li>B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds</li> <li>B7 Advanced Block and Tackle</li> <li>B8 Advanced Cranes</li> <li>B9 Hoisting and Jacking Equipment and Engineered Lifts</li> <li>E1 Trade Mathematics One</li> <li>E7 Trade Mathematics Two</li> <li>E14 Trade Mathematics Three</li> </ul>
Tack	/ – Hoist loads.	
7.01	Inspects hoisting equipment.	<ul> <li>B1 Ropes</li> <li>B2 Hoisting</li> <li>B3 Wire Rope and Attachments</li> <li>B4 Block and Tackle</li> <li>B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds</li> <li>B7 Advanced Block and Tackle</li> <li>B8 Advanced Cranes</li> <li>B9 Hoisting and Jacking Equipment and Engineered Lifts</li> <li>E1 Trade Mathematics One</li> <li>E7 Trade Mathematics Two</li> <li>E14 Trade Mathematics Three</li> </ul>
7.02	Assembles Maintains hoisting equipment.	<ul> <li>B1 Ropes</li> <li>B2 Hoisting</li> <li>B3 Wire Rope and Attachments</li> <li>B4 Block and Tackle</li> <li>B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds</li> <li>B7 Advanced Block and Tackle</li> <li>B8 Advanced Cranes</li> <li>B9 Hoisting and Jacking Equipment and Engineered Lifts</li> <li>E1 Trade Mathematics One</li> <li>E7 Trade Mathematics Two</li> <li>E14 Trade Mathematics Three</li> </ul>
7.03	Performs hoisting operations.	<ul> <li>B1 Ropes</li> <li>B2 Hoisting</li> <li>B3 Wire Rope and Attachments</li> <li>B4 Block and Tackle</li> <li>B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds</li> <li>B7 Advanced Block and Tackle</li> <li>B8 Advanced Cranes</li> <li>B9 Hoisting and Jacking Equipment and Engineered Lifts</li> <li>E1 Trade Mathematics One</li> <li>E7 Trade Mathematics Two</li> <li>E14 Trade Mathematics Three</li> </ul>
7.04	Secures load before rigging removal.	B1 Ropes B2 Hoisting

B3       Wire Rope and Attachments         B4       Block and Tackle         B5       Wire Rope Drums, Aerial Access and Equipment and Scaffolds         B7       Advanced Block and Tackle         B8       Advanced Block and Tackle         B9       Hoisting and Jacking Equipment and Engineered Lifts         E1       Trade Mathematics Two         E1       Trade Mathematics Three         Task 8 - Performs post-lift activities.       B1         B1       Ropes         B2       Hoisting         B3       Wire Rope and Attachments         B4       Block and Tackle         B5       Wire Rope and Attachments         B4       Block and Tackle         B5       Wire Rope and Attachments         B4       Block and Tackle         B5       Wire Rope Drums, Aerial Access and Equipment and Scaffolds         B7       Advanced Block and Tackle         B8       Advanced Block and Tackle         B9       Hoisting         B1       Ropes         B1       Trade Mathematics Two         C1       Trade Mathematics Two         C3       Basic Draiting         C4       Introduction to Layout         C5       D		NOA Subtask	Manitoba Unit(s)
8.01       Disassembles hoisting equipment.         8.03       Disassembles hoisting equipment.         8.03       Disassembles hoisting equipment.         8.03       Disassembles hoisting equipment.         8.04       Conducts post-lift activities.         8.01       Conducts post-lift inspection.         8.02       Uses drawings and specifications.         8.02       Uses drawings and specifications.         8.02       Uses drawings and specifications.         8.03       Disassembles hoisting equipment.         8.04       C4 Introduction to Layout         9.05       C4 Introduction to Layout         9.06       C4 Introduction to Layout         9.01       Lays out components for fabrication.         9.02       Cuts components for fabrication.         9.03       Forms components for fabrication.         9.04       Layout and Fabricating <td></td> <td></td> <td>B3 Wire Rope and Attachments</td>			B3 Wire Rope and Attachments
8.01       Disassembles hoisting equipment.       B1 Advanced Block and Tackle         8.03       Disassembles hoisting equipment.       B1 Ropes         8.03       Disassembles hoisting equipment.       C4 Introduction to Layout         8.03       Case or performs for fabrication.       C4 Introduction to Layout         8.03       Case or performs for fabrication.       C4 Introduction to Layout         8.03       Case or performs for fabrication.       C4 Introduction to Layout         C6       C5 Performs fabrication.       C5 Diver Rope Drums, Aerial Access and Equipment and Scaffolds         8.01       Conducts post-lift inspection.       E7 Trade Mathematics True         8.01       Conducts post-lift inspection.       E7 Trade Mathematics True         8.02       Uses drawings and specifications.       C3 Basic Drafting         C4 Introduction to Layout       C5 Drawing Interpretation Two         E1       Trade Mathematics True         C3       Basic Drafting         C4 Introduction to Layout       C5 Drawing Interpretation Two         E1       B1 Ropes         E2       Hoisting and Jacking Equipment and Engineered Lifts         E1       Trade Mathematics Three         E2       Hoisting and Jacking Equipment and Engineered Lifts         E1       Trade Mathemati			
8.01     Definition of the product of th			
B8     Advanced Cranes       B9     Hoisting and Jacking Equipment and Engineered Lifts       E7     Trade Mathematics Two       E1     Trade Mathematics Three       B1     Ropes       B3     Wire Rope and Attachments       B4     B4 cock and Tackle       B5     Wire Rope Drums, Aerial Access and Equipment and Scaffolds       B6     Advanced Block and Tackle       B8     Advanced Cranes       B9     Hoisting and Jacking Equipment and Engineered Lifts       E1     Trade Mathematics Three       C3     Basic Drating       8.02     Uses drawings and specifications.       C5     Drawing Interpretation One       C6     C4       C7     Drawing Interpretation One       C6     B3       B1     Ropes       B2     Hoisting       B3     Hice And Tackle       B4     Block and Tackle       B5     W			
B9     Hoisting and Jacking Equipment and Engineered Lifts       E1     Trade Mathematics One       E7     Trade Mathematics Three       Task 8 - Performs post-lift activities.     B1       Ropes     B2       B3     Wire Rope and Attachments       B4     Block and Tackle       B5     Wire Rope and Attachments       B4     Block and Tackle       B5     Wire Rope and Attachments       B4     Block and Tackle       B5     Wire Rope and Attachments       B4     Block and Tackle       B5     Wire Rope Drums, Aerial Access and Equipment and Engineered Lifts       E1     Trade Mathematics Three       Conducts post-lift inspection.     E1       B1     Ropes       B2     Hoisting       B3     Wire Rope Drums, Aerial Access and Equipment and Engineered Lifts       E1     Trade Mathematics Three       C3     Basic Drating       8.02     Uses drawings and specifications.       C5     Drawing Interpretation One       C6     Layout and Fabricating       C7     Trade Mathematics Three       B3     Wire Rope Drums, Aerial Access and Equipment and Scaffolds       B4     Block and Tackle       B5     Hoisting       B1     Ropes			
E1       Trade Mathematics One         E7       Trade Mathematics Two         E14       Trade Mathematics Three         Task 8 - Performs post-lift activities.       B1         Ropes       B2         Hoisting       B3         Wire Rope and Attachments       B4         B4       Block and Tackle         B5       Wire Rope Drums, Aerial Access and Equipment and Scaffolds         B7       Advanced Cranes         B9       Hoisting and Jacking Equipment and Engineered Lifts         E1       Trade Mathematics Two         E14       Trade Mathematics Two         E14       Trade Mathematics Two         E14       Trade Mathematics Trade         B3       Bosing and Jacking Equipment and Engineered Lifts         E14       Trade Mathematics Two         E14       Trade Mathematics Two         E14       Trade Mathematics Three         B3.02       Uses drawings and specifications.         C3       Disassembles hoisting equipment.         B1       Ropes         B2       Hoisting         B3       Wire Rope and Attachments         B4       Block and Tackle         B5       Wire Rope and Attachments         B			
E7       Trade Mathematics Two E14 Trade Mathematics Three         Task 8 - Performs post-lift activities.       B1       Ropes         B.01       Conducts post-lift activities.       B1       Rope and Attachments         B.01       Conducts post-lift inspection.       B1       Wire Rope Drums, Aerial Access and Equipment and Scatifolds         B.01       Conducts post-lift inspection.       B1       Advanced Block and Tackle B3       Advanced Cranes         B.02       Uses drawings and specifications.       C3 Basic Drating C4 Introduction to Layout C3 Basic Drating       C4 Introduction to Layout C4 Introduction to Layout C5 Drawing Interpretation One C6 Layout and Fabrication Two E14 Ropes         8.02       Uses drawings and specifications.       C5 Drawing Interpretation Two E14 Ropes       B1         8.03       Disassembles hoisting equipment.       B1       Ropes B2       Hoisting B3       Wire Rope Drums, Aerial Access and Equipment and Scatifolds         8.03       Disassembles hoisting equipment.       B1       Ropes B2       Hoisting B3       Wire Rope Drums, Aerial Access and Equipment and Scatifolds         7       Advanced Cranes B9       Hoisting B4       Block and Tackle B5       Block and Tackle B4         8.03       Disassembles hoisting equipment.       B1       Ropes B2       Hoisting B4       Block and Tackle B5         8.04       Disa			
E14 Trade Mathematics Three         Task 8 – Performs post-lift activities.         B1       Ropes         B2       Hoisting         B3       Wire Rope and Attachments         B4       Block and Tackle         B5       Advanced Block and Tackle         B6.01       Conducts post-lift inspection.         Conducts post-lift inspection.       B7         Advanced State       B9         B4       Block and Tackle         B5       Advanced Cranes         B9       Hoisting and Jacking Equipment and Engineered Lifts         E11       Trade Mathematics One         E7       Trade Mathematics Three         C3       Basic Drafting         C4 Introduction to Layout       C5 Drawing Interpretation Two         B1       Ropes         B2       Hoisting and Jacking Equipment and Engineered Lifts         B4       Block and Tackle         B5       Wire Rope and Attachments         B4       Block and Tackle         B5       Wire Rope and Attachments         B4       Block and Tackle         B5       Wire Rope and Attachments         B4       Block and Tackle         B5       Wire Rope and Attachm			
Task 8 – Performs post-lift activities.         B1         Ropes           8.01         Conducts post-lift activities.         B1         Ropes           8.01         Conducts post-lift inspection.         B3         Wire Rope Drums, Aerial Access and Equipment and Scaffolds           8.01         Conducts post-lift inspection.         B3         Advanced Block and Tackle           B4         B4 dock and Tackle         B4         Advanced Cranes           B9         Hoisting and Jacking Equipment and Engineered Lifts E1         Trade Mathematics Two           E1         Trade Mathematics Two         E1           8.02         Uses drawings and specifications.         C3 Basic Drafting           8.03         Uses drawings and specifications.         C3 Basic Drafting           C4         Introduction to Layout         C5 Drawing Interpretation One           C5 Draving Interpretation Two         B1         Ropes           B1         Rope         B2         Hoisting           B3         Wire Rope and Attachments         B4           B0ck and Tackle         B5         Wire Rope Drums, Aerial Access and Equipment and Saffolds           B3         Biosting and Jacking Equipment and Engineered Lifts E1         Trade Mathematics One           B4         Block and Tackle         B4			
8.01       B1 Ropes         8.01       Conducts post-lift inspection.       B4 Block and Tackle         B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds       B7 Advanced Block and Tackle         B6 Advanced Cranes       B9 Hoisting and Jacking Equipment and Engineered Lifts         E1 Trade Mathematics One       E7 Trade Mathematics One         E7 Trade Mathematics One       E7 Trade Mathematics One         E7 Trade Mathematics One       C3 Basic Drafting         C4 Introduction to Layout       C5 Drawing Interpretation One         C6 Layout and Fabricating       C7 Drawing Interpretation Two         B1 Ropes       B2 Hoisting and Jacking Equipment and Engineered Lifts         E1 Trade Mathematics One       C6 Layout and Fabricating         C7 Drawing Interpretation One       C6 Layout and Fabricating         C7 Drawing Interpretation Two       B1 Ropes         B2 Hoisting and Jacking Equipment and Engineered Lifts       B3 Wire Rope and Attachments         B4 Block and Tackle       B5 Wire Rope and Attachments         B4 Block and Tackle       B5 Wire Rope and Attachments         B4 Block and Tackle       B5 Wire Rope and Attachments         B4 Block and Tackle       B5 Wire Rope and Attachments         B4 Block and Tackle       B5 Wire Rope and Attachments         B4 Block and Tackle       B5 Wi			
8.01       Conducts post-lift inspection.       B2       Hoisting         8.01       Conducts post-lift inspection.       B3       Wire Rope and Attachments         8.01       Conducts post-lift inspection.       B3       Wire Rope and Attachments         8.02       Conducts post-lift inspection.       B3       Wire Rope and Attachments         8.02       Uses drawings and specifications.       C3       Basic Drafting         6.02       Uses drawings and specifications.       C3       Basic Drafting         6.02       Uses drawings and specifications.       C3       Dasic Drafting         7       Tade Mathematics Two         E14       Trade Mathematics Two         C4       Introduction to Layout         C5       Drawing Interpretation One         C6       Layout and Fabrication         B3       Wire Rope and Attachments         B4       Block and Tackle         B4       Advanced Cranes	Task 8	– Performs post-lift activities.	- <u>-</u>
8.01       Conducts post-lift inspection.       B3       Wire Rope and Attachments         8.01       Conducts post-lift inspection.       B4       Block and Tackle         B5       Wire Rope Drums, Aerial Access and Equipment and Scatfolds         B7       Advanced Block and Tackle         B8       Hoisting and Jacking Equipment and Engineered Lifts         E1       Trade Mathematics One         E7       Trade Mathematics One         C4       Introduction to Layout         C5       Drawing Interpretation One         C6       Layout and Fabrication Two         B1       Ropes         B2       Hoisting and Jacking Equipment and Engineered Lifts         B3       Wire Rope Drums, Aerial Access and Equipment and Scaffolds         B7       Advanced Cranes         B9       Hoisting and Jacking Equipment and Engineered Lifts         E1       Trade Mathematics One         E7			
8.01       Conducts post-lift inspection.       B4       Block and Tackle         8.01       Conducts post-lift inspection.       B5       Wire Rope Drums, Aerial Access and Equipment and Scaffolds         B7       Advanced Granes       B9       Hoisting and Jacking Equipment and Engineered Lifts E1         E1       Trade Mathematics Two       E14       Trade Mathematics Two         8.02       Uses drawings and specifications.       C3 Basic Drafting       C4         8.02       Uses drawings and specifications.       C6 Layout and Fabricating       C6 Layout and Fabricating         8.03       Disassembles hoisting equipment.       B1       Ropes       B2       Hoisting         8.03       Disassembles hoisting equipment.       B1       Ropes       B2       Hoisting         8.03       Disassembles hoisting equipment.       C4 Introduction to Layout       Scaffolds         8.03       Disassembles hoisting equipment.       C4 Introduction to Layout       Scaffolds         9.01       Lays out components for fabrication.       C4 Introduction to Layout       C6 Layout and Fabricating         9.02       Cuts components for fabrication.       C4 Introduction to Layout       C6 Layout and Fabricating         9.03       Forms components for fabrication.       C4 Introduction to Layout       C6 Layout and			
8.01       Conducts post-lift inspection.       B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds         8.01       Disassembles control of the second			B3 Wire Rope and Attachments
8.01       Conducts post-lift inspection.       Scaffolds B7 Advanced Block and Tackle B8 Advanced Cranes B9 Hoisting and Jacking Equipment and Engineered Lifts E1 Trade Mathematics One E7 Trade Mathematics Two E14 Trade Mathematics Three         8.02       Uses drawings and specifications.       C3 Basic Drafting C4 Introduction to Layout C5 Drawing Interpretation One C6 Layout and Fabricating C7 Drawing Interpretation Two         8.03       Disassembles hoisting equipment.       B1 Ropes B1 Ropes B1 Ropes B2 Hoisting B3 Wire Rope and Attachments B4 Block and Tackle B5 Wire Rope Drums, Aerial Access and Equipment and Scaffolds B7 Advanced Block and Tackle B8 Advanced Cranes B9 Hoisting and Jacking Equipment and Engineered Lifts E1 Trade Mathematics Two E14 Trade Mathematics Three         Task 9 - Performs fabrication.       C4 Introduction to Layout C6 Layout and Fabricating C7 Drawing Interpretation Cranes B9 Hoisting and Jacking Equipment and Engineered Lifts E1 Trade Mathematics Two E14 Trade Mathematics Three         9.01       Lays out components for fabrication.       C4 Introduction to Layout C6 Layout and Fabricating C8 Layout E4 Trade Related Components         9.02       Cuts components for fabrication.       C4 Introduction to Layout C6 Layout and Fabricating C8 Layout E4 Trade Related Components         9.03       Forms components for fabrication.       C4 Introduction to Layout C6 Layout and Fabricating C8 Layout E4 Trade Related Components         9.03       Forms components for fabrication.       C4 Introduction to Layout C6 Layout and Fabricating C8 Layout E4 Trade Related Components			
8.01       Conducts post-lift inspection.       B7       Advanced Block and Tackle         B8       Advanced Cranes       B9       Hoisting and Jacking Equipment and Engineered Lifts         E1       Trade Mathematics Two       E7       Trade Mathematics Two         E1       Trade Mathematics Three       C3 Basic Drafting         C4       Introduction to Layout       C5 Drawing Interpretation One         C6       Layout and Fabricating       C7 Drawing Interpretation Two         B1       Ropes       B2       Hoisting and Jacking Equipment and Engineered Lifts         8.02       Uses drawings and specifications.       B1       Ropes         B2       Hoisting and Jacking Equipment       B1       Ropes         B3       Wire Rope and Attachments       B4       Block and Tackle         B3       Sourd Rope Drums, Aerial Access and Equipment and Scaffolds       B7       Advanced Cranes         B4       Advanced Block and Tackle       B6       Advanced Cranes       B9       Hoisting and Jacking Equipment and Engineered Lifts E1         Trade Mathematics Three       Trade Mathematics Three       Trade Mathematics Three       C4         Task 9 - Performs fabrication.       C4       Introduction to Layout       C6 Layout and Fabricating C8 Layout         9.01 <t< td=""><td></td><td></td><td></td></t<>			
8.02       B8       Advanced Cranes       B9         8.02       Uses drawings and specifications.       C3 Basic Drafting       C4 Introduction to Layout         8.02       Uses drawings and specifications.       C3 David and Fabricating       C4 Introduction to Layout         8.02       Uses drawings and specifications.       C3 David and Fabricating       C4 Introduction to Layout         8.02       Uses drawings and specifications.       C5 Drawing Interpretation One       C6 Layout and Fabricating         8.03       Disassembles hoisting equipment.       B1       Ropes       B2 Hoisting         B3       Wire Rope and Attachments       B4       B10ck and Tackle         B4       Advanced Cranes       B9       Hoisting and Jacking Equipment and Engineered Lifts         B7       Advanced Cranes       B9       Hoisting and Jacking Equipment and Engineered Lifts         B7       Trade Mathematics Three       C4 Introduction to Layout       C6 Layout and Fabricating         9.01       Lays out components for fabrication.       C4 Introduction to Layout       C6 Layout and Fabricating         9.02       Cuts components for fabrication.       C4 Introduction to Layout       C6 Layout and Fabricating         9.03       Forms components for fabrication.       C4 Introduction to Layout       C6 Layout and Fabricating <td>8.01</td> <td>Conducts post-lift inspection.</td> <td></td>	8.01	Conducts post-lift inspection.	
8.02       B9       Hoisting and Jacking Equipment and Engineered Lifts         8.02       Uses drawings and specifications.       C3 Basic Drafting         6.02       Uses drawings and specifications.       C3 Basic Drafting         6.03       Disassembles hoisting equipment.       B1 Ropes         8.03       Disassembles hoisting equipment.       B1 Ropes         B2       Hoisting and Jacking Equipment and Engineered Lifts E1 Trade Mathematics One E7 Trade Mathematics Two E14 Trade Mathematics Two E14 Trade Mathematics Three         9.01       Lays out components for fabrication.       C4 Introduction to Layout C6 Layout and Fabricating C8 Layout E4 Trade Related Components         9.02       Cuts components for fabrication.       C4 Introduction to Layout C6 Layout and Fabricating C8 Layout E4 Trade Related Components         9.03       Forms components for fabrication.       C4 Introduction to Layout C6 Layout and Fabricating C8 Layout E4 Trade Related Components         9.03       Forms components for fabrication.       C4 Introductio			
8.02       Uses drawings and specifications.       E1 Trade Mathematics Two         8.02       Uses drawings and specifications.       C3 Basic Drafting         C4 Introduction to Layout       C5 Drawing Interpretation One         C6 Layout and Fabricating       C7 Drawing Interpretation One         C7 Drawing Interpretation One       C6 Layout and Fabricating         C7 Drawing Interpretation Two       B1 Ropes         B2 Hoisting       B3 Wire Rope and Attachments         B4 Block and Tackle       B5 Wire Rope Drums, Aerial Access and Equipment and Scalfolds         B7 Advanced Block and Tackle       B8 Advanced Cranes         B9 Hoisting and Jacking Equipment and Engineered Lifts       E1 Trade Mathematics Two         E14 Trade Mathematics Two       E14 Trade Mathematics Two         9.01       Lays out components for fabrication.       C4 Introduction to Layout         C6 Layout and Fabricating       C8 Layout         9.02       Cuts components for fabrication.       C4 Introduction to Layout         9.03       Forms components for fabrication.       C4 Introduction to Layout         C6 Layout and Fabricating       <			
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E4 Trade Related Components			

	NOA Subtask	Manitoba Unit(s)
Task 1	0 – Assembles and fits vessels and con	
10.01	Aligns vessels and components.	E4 Trade Related Components E5 Identification of Pressure Vessels D3 Cutting, Welding and Related Processes C8 Layout E13 Fitting
10.02	Fits vessels and components.	<ul> <li>E4 Trade Related Components</li> <li>E5 Identification of Pressure Vessels</li> <li>D3 Cutting, Welding and Related Processes</li> <li>C8 Layout</li> <li>E13 Fitting</li> </ul>
Task 1	1 – Fastens components.	
11.01	Bolts components.	<ul><li>E4 Trade Related Components</li><li>E5 Identification of Pressure Vessels</li><li>D3 Cutting, Welding and Related Processes</li></ul>
11.02	Expands tubes.	E4 Trade Related Components
11.03	Lays up fibreglass.	E6 Fibreglass Fitting
Task 1	2 – Services vessels and components.	E4 Trade Deleted Components
12.01	Inspects vessels and components for defects.	E4 Trade Related Components E5 Identification of Pressure Vessels E12 Inspection/Testing of Materials
12.02	Upgrades vessels and components.	E4 Trade Related Components E5 Identification of Pressure Vessels E12 Inspection/Testing of Materials
12.03	Replaces vessels and components.	E4 Trade Related Components E5 Identification of Pressure Vessels E12 Inspection/Testing of Materials
12.04	Prepares vessels and components for maintenance.	E4 Trade Related Components E5 Identification of Pressure Vessels E12 Inspection/Testing of Materials
12.05	Repairs vessels and components.	E4 Trade Related Components E5 Identification of Pressure Vessels E10 Metallurgy Two E12 Inspection/Testing of Materials
12.06	Performs preventative maintenance.	A8 Business Practices F1 Boilers F2 Condensers and Exchangers F3 Tanks
12.07	Tests materials, vessels and components.	<ul> <li>E3 Metallurgy One</li> <li>E4 Trade Related Components</li> <li>E5 Identification of Pressure Vessels</li> <li>E10 Metallurgy Two</li> <li>E11 Heat Treatment</li> <li>E12 Inspection/Testing of Materials</li> <li>E15 Advanced Metallurgy</li> </ul>
Tack 1	3 – Removes vessels and components.	
1051	5 - Kenioves vessels and components.	F1 Boilers
13.01	Dismantles vessels and components.	F2 Condensers and Exchangers F3 Tanks
13.02	Removes materials.	F1 Boilers F2 Condensers and Exchangers F3 Tanks

