

**AREAS OF COMPETENCY**



**COMPETENCY ANALYSIS PROFILE  
MOBILE CRANE OPERATOR BRANCH 1**



<b>PROTECT SELF AND OTHERS</b>  <b>U5318.0</b>	Wear and maintain personal protective clothing and equipment.  U5318.1	Maintain a safe work environment.  U5318.2	Perform recommended fire safety procedure  U5318.3	Operate the crane safely.  U5318.4	Operate crane safely near high voltage equipment.  U5318.5
	Report crane contact with high voltage.  U5318.6	Perform emergency exit procedures.  U5318.7	Communicate with other workers and tradesperson.  U5318.8	Service machinery guards and covers.  U5318.9	Secure an unattended crane for short periods.  U5318.10
	Secure an unattended crane for short periods.  U5318.11				
<b>CONDUCT PRE-OPERATIONAL INSPECTION</b>  <b>U5319.0</b>	Read and interpret manufacturers' manuals and government legislation  U5319.1	Perform an engine off inspection of the crane and components  U5319.2	Perform an engine start up inspection.  U5319.3	Perform an engine on inspection of the crane and components.  U5319.4	Perform an engine on function test of the carrier and components.  U5319.5
	Perform a function test of the outrigger and stabilizer assemblies.  U5319.6	Inspect the swing bearing and turntable  U5319.7	Inspect telescopic sections of hydraulic boom.  U5319.8	Test the telescopic section of the hydraulic devices and attachment.  U5319.9	Inspect wire rope assemblies and components.  U5319.10
	Inspect wire rope  U5319.11	Inspect the hydraulic boom and components.  U5319.12	Inspect the lattice boom and components.  U5319.13	Inspect counter-weights hydraulic devices and attachments.  U5319.14	Perform pre-operational cycle inspection.  U5319.15
	Test steering gear box.  U5319.16	Test air brake system and components.  U5319.17	Test parking and service brakes.  U5319.18	Verify crane operator aids are available in the crane.  U5319.19	Inspect crane and operator safety devices  U5319.20

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<p><b>CONDUCT PRE-OPERATIONAL INSPECTION Cont'd</b></p> <p><b>U5319.0</b></p>	<p>Complete documentation of the crane log books</p> <p>U5319.21</p>				
<p><b>PREPARE AND TRANSPORT CRANES</b></p> <p><b>U5320.0</b></p>	<p>Prepare wheeled or crawler type cranes for transport.</p> <p>U5320.1</p>	<p>Inspect the transporter.</p> <p>U5320.2</p>	<p>Load the crane and component parts on to transporter.</p> <p>U5320.3</p>	<p>Secure the crane and components for travel.</p> <p>U5320.4</p>	<p>Calculate gross vehicle weight(GVW).</p> <p>U5320.5</p>
	<p>Obtain and verify required permits and document for transport</p> <p>U5320.6</p>				
<p><b>PLAN LIFTS</b></p> <p><b>U5321.0</b></p>	<p>Read and interpret documentation.</p> <p>U5321.1</p>	<p>Inspect access to the crane file.</p> <p>U5321.2</p>	<p>Calculate all load weights and gross loads.</p> <p>U5321.3</p>	<p>Select crane configuration and attachments.</p> <p>U5321.4</p>	<p>Prepare rigging.</p> <p>U5321.5</p>
	<p>Select crane and equipment.</p> <p>U5321.6</p>	<p>Identify signal person.</p> <p>U5321.7</p>			
<p><b>ASSEMBLE AND DISMANTLE THE CRANES</b></p> <p><b>U5322.0</b></p>	<p>Inspect the crane site</p> <p>U5322.1</p>	<p>Read and interpret documentation</p> <p>U5322.2</p>	<p>Unload the crane from the transport.</p> <p>U5322.3</p>	<p>Assemble lattice boom assemblies.</p> <p>U5322.4</p>	<p>Dismantle lattice boom assemblies</p> <p>U5322.5</p>
	<p>Assemble hydraulic (telescopic) boom assemblies</p> <p>U5322.6</p>	<p>Dismantle hydraulic(telescopic) boom assemblies.</p> <p>U5322.7</p>	<p>Dismantle crane and components.</p> <p>U5322.8</p>	<p>Inspect assembled crane and components.</p> <p>U5322.9</p>	

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<b>PERFORM RIGGING</b>  <b>U5323.0</b>	Read and interpret documentation  U5323.1	Inspect rigging equipment  U5323.2	Perform rigging and slinging techniques  U5323.3	Maintain and store rigging equipment  U5323.4		
	<b>SET UP CRANES</b>  <b>U5324.0</b>	Inspect the crane site.  U5324.1	Verify the crane gross load, working radius and hook height  U5324.2	Program the on board computer system.  U5324.3	Set the crane on firm level blocking  U5324.4	Extend outrigger beams.  U5324.5
		Set the pads, floats, crawlers and outriggers.  U5324.6	Set the correct tire clearance.  U5324.7	Level the crane.  U5324.8	Lock and chock crawlers  U5324.9	
		<b>OPERATE HYDRAULIC CRANES</b>  <b>U5325.0</b>	Starting engine(s)  U5325.1	Verify weight of load  U5325.2	Verify crane capacity calculations  U5325.3	Raise and lower hook.  U5325.4
Extend and retract telescopic boom.  U5325.6	Swing crane  U5325.7		Swing, boom, and hoist load simultaneously.  U5325.8	Perform specialty lifts and operations.  U5325.9	Perform pick and carry operations  U5325.10	
Operate a crane equipped with personnel bucket.  U5325.11	Drive the crane carrier on work site or public highway.  U5325.12					

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<b>OPERATE CONVENTIONAL FRICTION CRANES</b>  <b>U5326.0</b>	Start engine(s)  U5326.1	Verify weight of load  U5326.2	Verify crane capacity calculation  U5326.3	Raise and lower the hook  U5326.4	Raise and lower the boom  U5326.5
	Swing the crane  U5326.6	Swing boom and hoist loads simultaneously  U5326.7	Travel a conventional crawler friction crane.  U5326.8	Perform specialty lifts and operations  U5326.9	Operate a crane equipped with a personnel bucket.  U5326.10
	Perform pick and carry operations  U5326.11	Drive the crane carrier on work site or public highways  U5326.12			
<b>MAINTAIN CRANES</b>  <b>U5327.0</b>	Read and interpret documentation  U5327.1	Lubricate the crane and components  U5327.2	Maintain engine and components.  U5327.3	Maintain battery and components  U5327.4	Maintain tires and wheels  U5327.5
	Maintain hydraulic system and components.  U5327.6	Maintain electrical system and components.  U5327.7	Read maintenance procedures.  U5327.8		