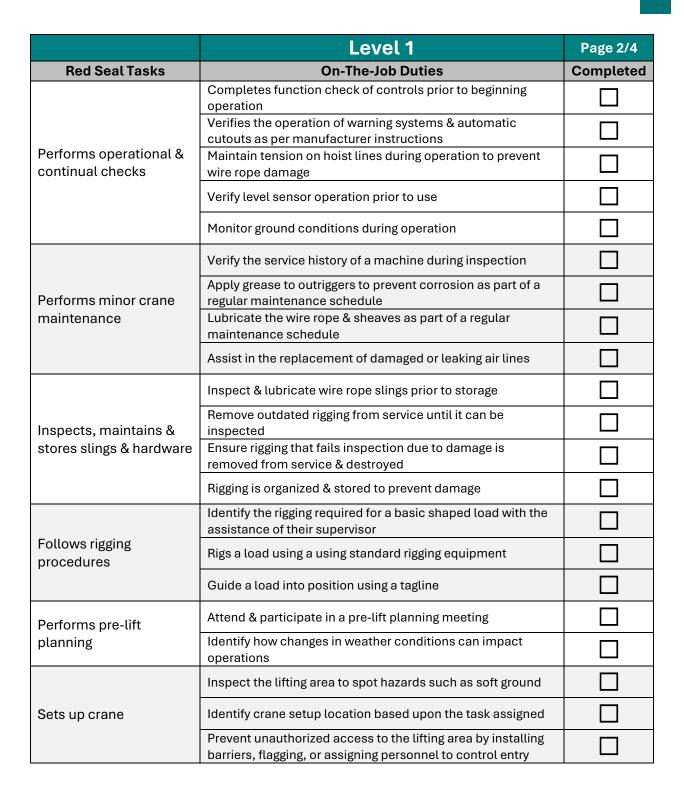


	Level 1	Page 1/4
Red Seal Tasks	On-The-Job Duties	Completed
Performs safety-related functions	Clean windows & remove clutter from the operator's cabin	
	Select & inspect PPE equipment such as fall protection	
	Participate in completion of the task hazard analysis & pretrip inspection checklist	
Uses communication & mentoring techniques	Communicate with rigging leader & signal person using a radio or hand signals	
Determines load weights	Assist the Journeyperson with determining the weight of an object	
	Calculate the weight of a simple lift including rigging & verify with supervisor	
Calculates crane capacity	Refer to the crane's load charts to find the optimal boom length & angle for the measured radius	
	Identify the correct load chart for the crane & components used in the lift	
Performs rigging calculations	Calculate rigging lifting capacity based on sling angle & confirm with Supervisor	
	Perform WLL calculations & confirm with supervisor	
	Check the crane's engine oil levels & top up as required	
Performs pre- operational checks & regular inspections	Inspect air hoses for cracks or leaks	
	Verify battery system is providing correct voltage	
	Check & top-up hydraulic oil levels	
	Inspect chassis for loose fasteners, missing pins & signs of metal fatigue	
	Verify the outriggers/stabilizers extend fully	
	Document results of a boom inspection in the crane's maintenance log	
	Perform a post-operational check on the support base & document any concerns	
Loads & unloads components for transport	Assist the Journeyperson in load securement to learn proper load placement	
	Assist unloading by laying out blocking for unloaded components	



Mobile Crane Operator On-the-Job Checklist



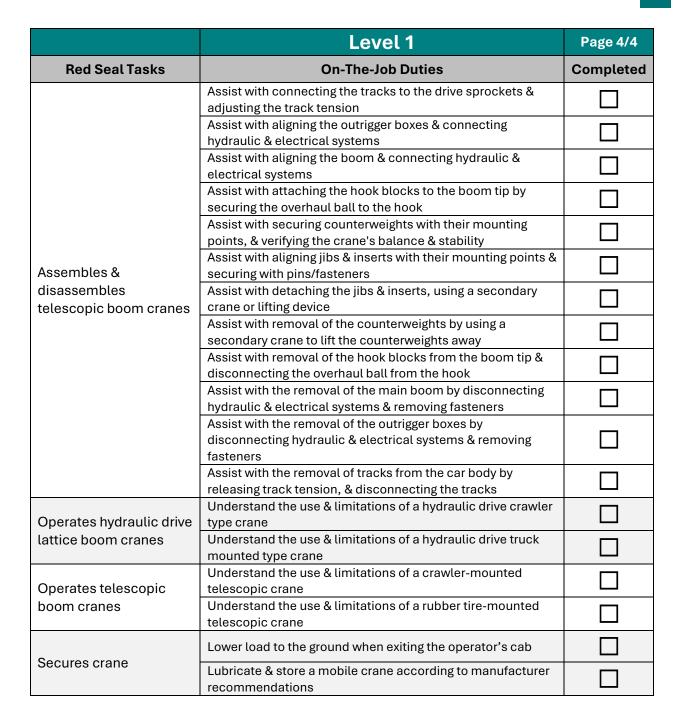


Mobile Crane Operator On-the-Job Checklist

	Level 1	Page 3/4
Red Seal Tasks	On-The-Job Duties	Completed
Drives crane on public roadways	Identify the requirements to transport a crane on public roadways	
	Verify equipment is secured for highway transport including travel axels, dollies & other components	
	Transports crane to site according to SGI & transportation regulations	
	Assist with installing tracks to the car body	
	Assist with mounting & securing the superstructure/ upperworks	
	Assist with positioning & securing the outrigger boxes	
	Assist with positioning & securing the boom base	
	Assist with attaching & securing counterweights	
	Assist with connecting & securing the main boom, tip, & boom attachments	
Assembles & disassembles lattice boom cranes	Assist with attaching & securing the hook blocks & overhaul ball	
	Assist with detaching & the removal of the hook blocks & overhaul ball	
	Assist with disconnecting & the removal of the main boom, tip, & boom attachments	
	Assist with detaching & the removal of the counterweights	
	Assist with detaching & the removal of the boom base	
	Assist with detaching & the removal of the superstructure/upperworks	
	Assist with releasing track tension & disconnecting the tracks from the drive sprockets & idler wheels	
	Assist with the removal of the outrigger boxes using a secondary crane or lifting device	
Performs common craning operations	Adjust LMI to match the configuration used during a lift	
	Determine a pathway into the work area	
Operates friction drive lattice boom cranes	Understand the use & limitations of a friction drive crawler lattice boom crane	
	Understand the use & limitations of a friction drive truck mounted lattice boom	

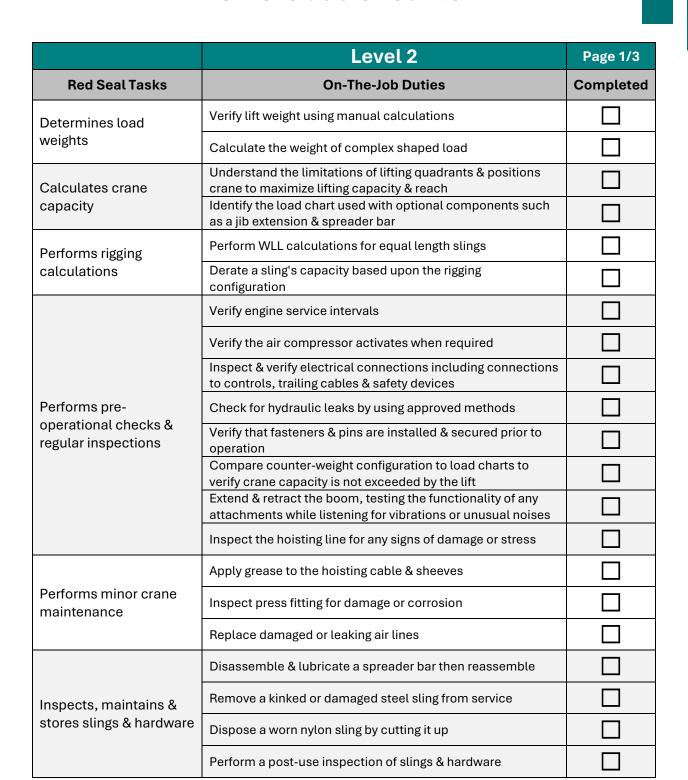






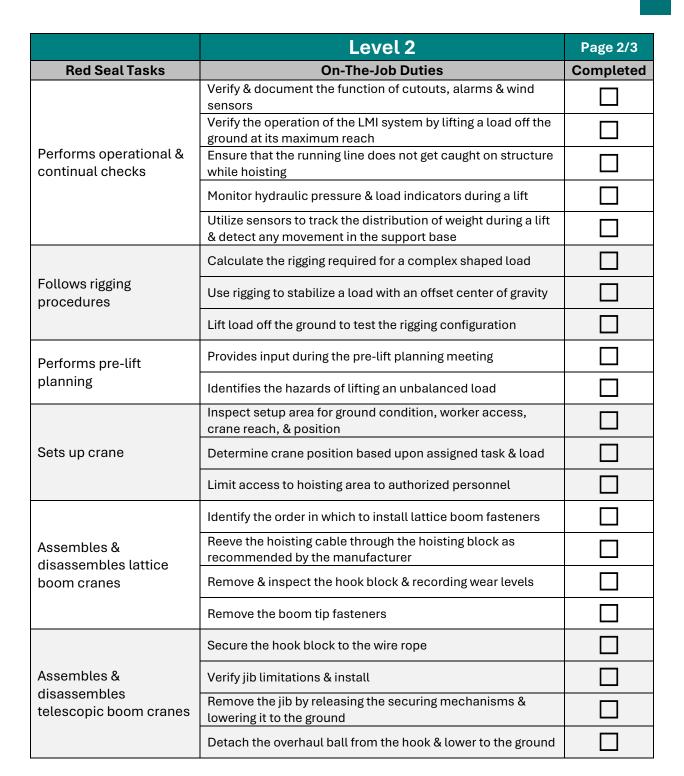








Mobile Crane Operator On-the-Job Checklist









	Level 2	Page 3/3
Red Seal Tasks	On-The-Job Duties	Completed
Performs common craning operations	Set the load limit indicator to xx% of the maximum lifting capacity	
	Identify lift hazards & procedures to mitigate them	
Operates friction drive lattice boom cranes	Understand the restrictions of friction drive cranes regarding personal hoisting	
	Understand the ability of a friction-drive crane to freefall if the brake is not engaged	
Operates hydraulic drive lattice boom cranes	Use a hydraulic drive crane to lift a multi-ton object such as a rooftop unit or a large piece of structure	
	Understand the benefit of hydraulics when lifting a large load in a precise location	
Operates telescopic boom cranes	Use a telescopic crane to hoist a load to a blind location	
	Use a rubber tire-mounted telescopic crane to hoist a load	
Performs specialty craning operations	Complete a multi-crane lift as the secondary crane	
Secures crane	Secures crane from unauthorized use while unattended	
	Apply grease to exposed areas to prevent corrosion	

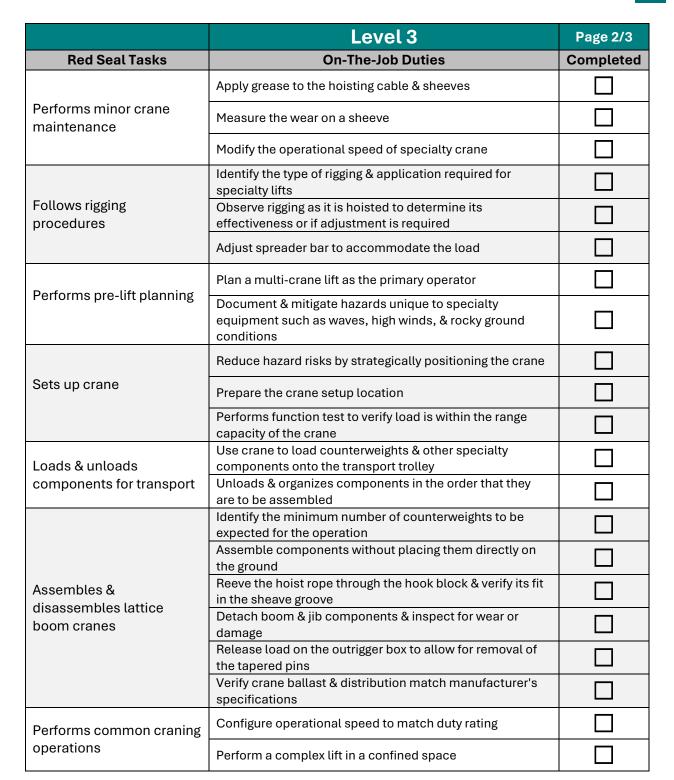




	Level 3	Page 1/3
Red Seal Tasks	On-The-Job Duties	Completed
Uses communication & mentoring techniques	Show another worker how to complete an unfamiliar task	
Determines load weights	Perform calculations to determine a complex load's center of gravity	
	Calculate a shared (tandem) load weight by using load dimensions & materials	
	Develop a lift plan to determine crane type/capacity	
Calculates crane capacity	Identify the limitations of a load chart & how to apply in a specialty lift	
Performs rigging	Determine how much de-rating should be applied to a sling based upon the angle of the slings	
calculations	Perform WLL calculations for personnel hoisting	
	Inspect specialty equipment prior to use	
	Inspect specialty equipment air system for leaks or cracks	
	Verify specialty equipment voltage levels	
Performs pre-operational	Identify & report the source of hydraulic fluid leak	
checks & regular inspections	Inspect chassis/car body of specialized equipment for signs of corrosion, metal fatigue or other damages	
	Verify specialty equipment level sensor operation	
	Inspect specialty attachments	
	Inspect & document damage or wear found on a specialty equipment hoisting system	
	Verify operation & channel of the communication radio	
	Monitor ground conditions affected by specialty equipment operation for changes	
Performs operational & continual checks	Monitor the running lines during operation	
	Checks for unusual vibrations & sounds during operation	
	Inspect the support pads for wear & damage	

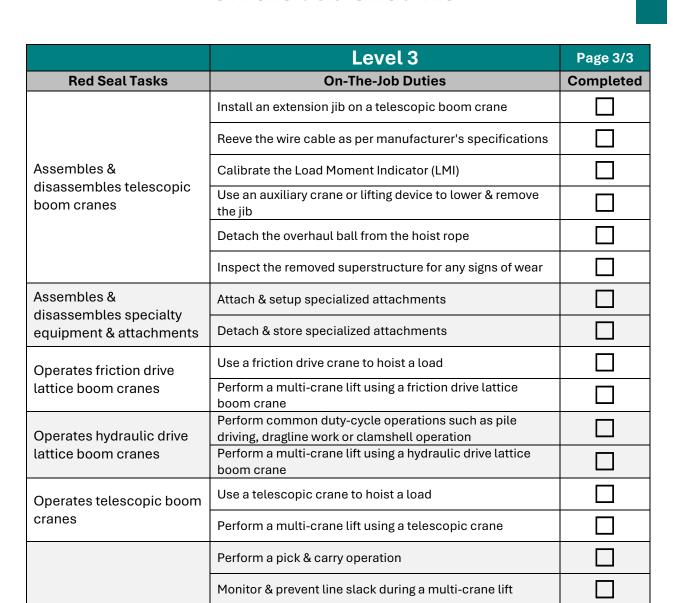












hoisting to prevent accidental movement

Perform a heavy lift in a marine environment

Identify the lead operator of a multi-crane lift

access an area

Performs a hoist of a personnel basket to allow workers to

Disables/locks operational controls when not actively

Remove the battery from a machine that will be stored



Performs specialty craning

operations

Secures crane

Mobile Crane Operator On-the-Job Checklist



Information Regarding the Checklist

Saskatchewan Apprenticeship and Trade Certification Commission's (SATCCs) On-The-Job Checklist provides a complete list of trade-specific Red Seal tasks for apprentices to complete under the supervision of a journeyperson. This work should be completed prior to attending the technical training level under which the duties are listed (e.g. Level 1 completed prior to attending Level 1 technical training).

Completing this checklist will ensure that apprentices are exposed to the full scope of a particular Red Seal trade throughout their apprenticeship program. It will also help prepare apprentices for each level of technical training by performing work on-the-job relating specifically to topics covered later on. The tradespecific tasks listed have been reviewed by certified journeypersons in Saskatchewan for their accuracy and have been set to an appropriate skill level.

An apprentice spends approximately 85% of their apprenticeship term training on-the-job. It is the both the apprentice and the employer's or journeyperson's responsibility to supervise an apprentice's practical skills development during their program.

To promote transparency and consistency, this document aligns with the 2021 Mobile Crane Operator Red Seal Occupational Standard (Employment and Social Development Canada).

A complete version of the Occupational Standard can be found at www.red-seal.ca

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