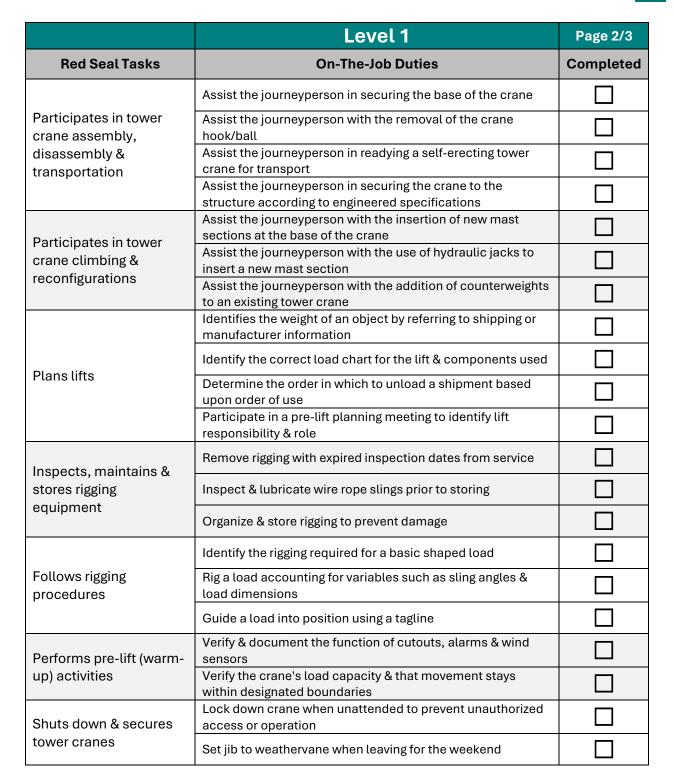


Apply grease to wire rope & sheeves to prevent corrosion



components

## Tower Crane Operator On-the-Job Checklist





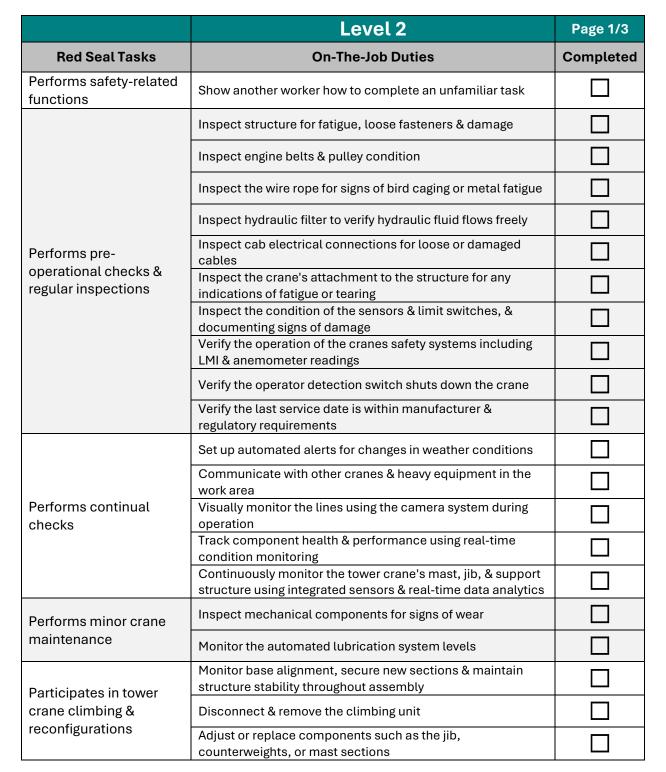




	Level 1	Page 3/3
Red Seal Tasks	On-The-Job Duties	Completed
Operates tower cranes	Travel a load from the crane base out to the boom end	
	Lower an object into a lifting well using a spotter	
	Rotate crane with a load on the hook	
	Verify rigging configuration & center of gravity by completing a test lift	
	Understand the limitations of a travelling tower crane	
	Hoist a load up while rotating away	
Performs specialty tower crane operations	Identify the requirements & limitations for personnel hoisting	













	Level 2	Page 2/3
Red Seal Tasks	On-The-Job Duties	Completed
Participates in tower crane assembly, disassembly & transportation	Coordinate the assembly of the tower crane based upon the sequence of assembly	
	Coordinate the disassembly of the tower crane based upon the sequence of assembly	
	Transport a self-erecting tower crane to the jobsite using public roadways	
	Disassemble a self-erecting tower crane	
Plans lifts	Calculate the weight of complex shaped load	
	Identify the load chart to be used with optional components	
	Establish a lifting schedule based upon site requirements	
	Conduct a site survey to identify potential factors that could impact the lift	
Inspects, maintains & stores rigging equipment	Remove a kinked or damaged steel sling from service	
	Disassemble & lubricate a spreader bar then reassemble	
	Perform a post-use inspection of slings & hardware prior to storage	
	Calculate the rigging required for a complex shaped load	
Follows rigging procedures	Use rigging to stabilize a load with an offset center of gravity	
	Lift load off the ground to test the rigging configuration	
Operates tower cranes	Trolley in & out to position loads at various distances along the jib	
	Adjust jib angle to position loads at varying heights & distances	
	Rotate the crane's superstructure to position loads horizontally	
	Coordinate a blind lift involving multiple spotters	
	Maintain communication with spotters during crane travel operations	
	Boom up & down while traveling the crane to reposition loads	







	Level 2	Page 3/3
Red Seal Tasks	On-The-Job Duties	Completed
Performs pre-lift (warm- up) activities	Test the hoisting, slewing, & trolley mechanisms under various load conditions	
	Adjust LMI to account for the components used during a lift	
Performs specialty tower crane operations	Plan a multi-crane lift	
	Follow site-specific protocols for coordination of lifts	
Shuts down & secures tower cranes	Verify all controls are in a neutral position & activate the necessary locks	
	Disengage all operational controls & lock the crane's superstructure	



# Tower 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 trade-specific 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 2024 Tower 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

#### Saskatchewan Apprenticeship & Trade Certification Commission (Regina)

2140 Hamilton St Regina SK, S4P 2E3

Tel: (306) 787-2444

Toll Free: 1-877-363-0536

Website: www.saskapprenticeship.ca

### Saskatchewan Apprenticeship & Trade Certification Commission (Saskatoon)

603 45th Street West Saskatoon, SK S7L 5W5

Tel: (306) 933-8476

Toll Free: 1-877-363-0536

Website: www.saskapprenticeship.ca

#### **District Offices**

Estevan (306) 637-4930 La Ronge (306) 425-4385 Moose Jaw (306) 694-3735 North Battleford (306) 446-7409 Prince Albert (306) 953-2632 Swift Current (306) 778-8945 Yorkton (306) 786-1394

