

OCCUPATIONAL TOOL AND EQUIPMENT LIST

TOWER CRANE OPERATOR



Government of Newfoundland Labrador
Department of Education and Early Childhood Development
Apprenticeship and Trades Certification Division

March 2024

Preface

This document is intended as a companion to the March 2024 Plan of Training for the Tower Crane Operator Occupation. It identifies the necessary tools and equipment required by apprentices and training institutions for the completion of apprenticeships.

Acknowledgements

Advisory committees, industry representatives, instructors and apprenticeship staff provided valuable input to the development of this document. Without their dedication to quality apprenticeship training, this document could not have been produced.

We offer you a sincere thank you.

Contact Information

Department of Education and Early Childhood Development
Apprenticeship and Trades Certification Division
Tel: 709-729-2729 / 1-877-771-3737
Email: app@gov.nl.ca
Web: www.gov.nl.ca/atcd/

Note:

The numbers suggested in the following Tool and Equipment List represent the required minimum. Please verify this list with your selected training institution.

Tools and Equipment List Tower Crane Operator

SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT		
Item	Units for Individual Students	Comments
Calculator	1	
CSA Approved Safety Glasses - clear and dark	1	
CSA Approved Hard Hat	1	
CSA Approved Safety Boots	1	
Coveralls	1	
Flashlight	1	
Gloves	1 pair	
Safety Vest	1	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION			
Item	Units per 15 Students	Maximum Students per Unit	Comments
Personal Protective Equipment and Safety equipment			
Ear Plugs	15	1	
Eye Wash Station	As required by provincial regulations		
Face Shield	1	15	
Fall arrest equipment	As required by provincial regulations		
Fire Blanket	1	15	
Fire Extinguishers - ABCD	As required by provincial regulations		
First Aid Station	As required by provincial regulations		
Shop Tools and Equipment			
Adjustable Wrenches - various size set	2 sets	8	
Air compressor	1	15	
Angle Indicator	1	15	
Wire Brushes - various sizes	1 set	15	
Cable Cutter	1	15	
Caliper	1	15	
Chain sling	1	15	
Circular saw	1	15	
Cold Chisels - various sizes	1 set	15	
Come-along	4	4	
Cross cut saw	2	8	
Electric drill	2	8	
Feeler gauge	1	15	
Grease Gun	4	4	
Grinder	1	15	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION

Item	Units per 15 Students	Maximum Students per Unit	Comments
Hammers - ball peen, claw, sledge	1 of each	15	
Hack saw	2	8	
Hydraulic jack - 20 ton minimum	1	15	
Impact wrenches - electric and pneumatic	1 of each	15	
Levels	4	4	
Line-up bar	1	15	
Load Moment Indicator LMI - portable or stationary	1	15	
Load binder	1	15	
Measuring Tapes - 25 ft, 100 ft and 200 ft. Imperial and metric may be combined, or additional equivalent metric measurement tapes may be used.	1 of each	15	
Oil cans	2	8	
Absorbent Pads	Consumable, 1 package minimum on hand	15	
Pliers - needle nose and slip joint	1 of each	15	
Pressure washer	1	15	
Pry bar	1	15	
Punches, knock-out - various sizes	1 set	15	
Scrapers	1 set	15	
Screwdrivers – Philips, Robertson, Slotted of various sizes	1 set of each	15	
Shackles – various sizes	8	2	
Sheave gauge	1	15	
Shovels - round and flat	2 of each	8	
Slings - synthetic and polyester	8 of each	2	
Snatch block	1	15	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION

Item	Units per 15 Students	Maximum Students per Unit	Comments
Squeegee	1	15	
Step ladder - 8 ft	1	15	
Tag lines	5	3	
Tire pressure gauge	1	15	
Tool box	1	15	
Turn buckles - various sizes	2 sets	8	
Two-way radios	1 set	15	
Vernier caliper	1	15	
Water hose (100 ft)	1	15	
Wire cable clips	8	2	
Wire rope gauge	1	15	
Wire slings – various sizes	15	1	
Wood blocking for crane assembly and disassembly	1 set	15	
Major Equipment			
Tower crane	1	15	rent or own
Hydraulic multiplier	1	15	rent or own