BC CONSTRUCTION HEALTH & SAFETY CONFERENCE
PRESENTED BY BCCSA BC Construction Safety Alliance
MAKING SAFETY SIMPLER

BEYOND CERTIFICATION:

Strengthening Crane Safety Across the Industry



BC Crane Safety
Crane Operator Certification & Licensing Authority

WHO ARE WE & WHAT DO WE DO?



We manage the
Certification Framework

We are a
Health & Safety Association

We participate in
Standards Development

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WHAT WE DON'T DO

- OHSR Enforcement
- Inspections
- Training
- Testing



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BY THE NUMBERS*



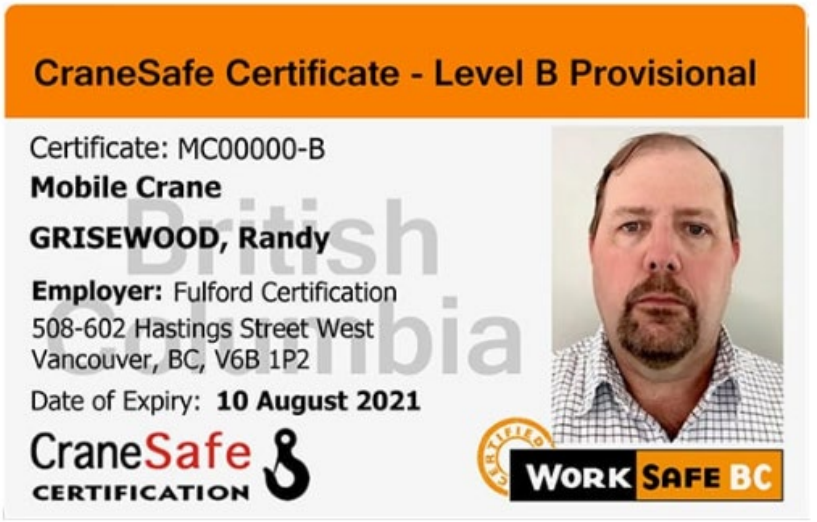
- **12,300 Full Scope** and **860 Provisional** operators in B.C. across all 11 classifications
- Highest number of *Full Scope* certifications:
  - **Folding Boom 22 Tons and under (3,450)**
- Highest number of *Provisional* certifications:
  - **Mobile Crane (220)**

**as of September 21, 2026*

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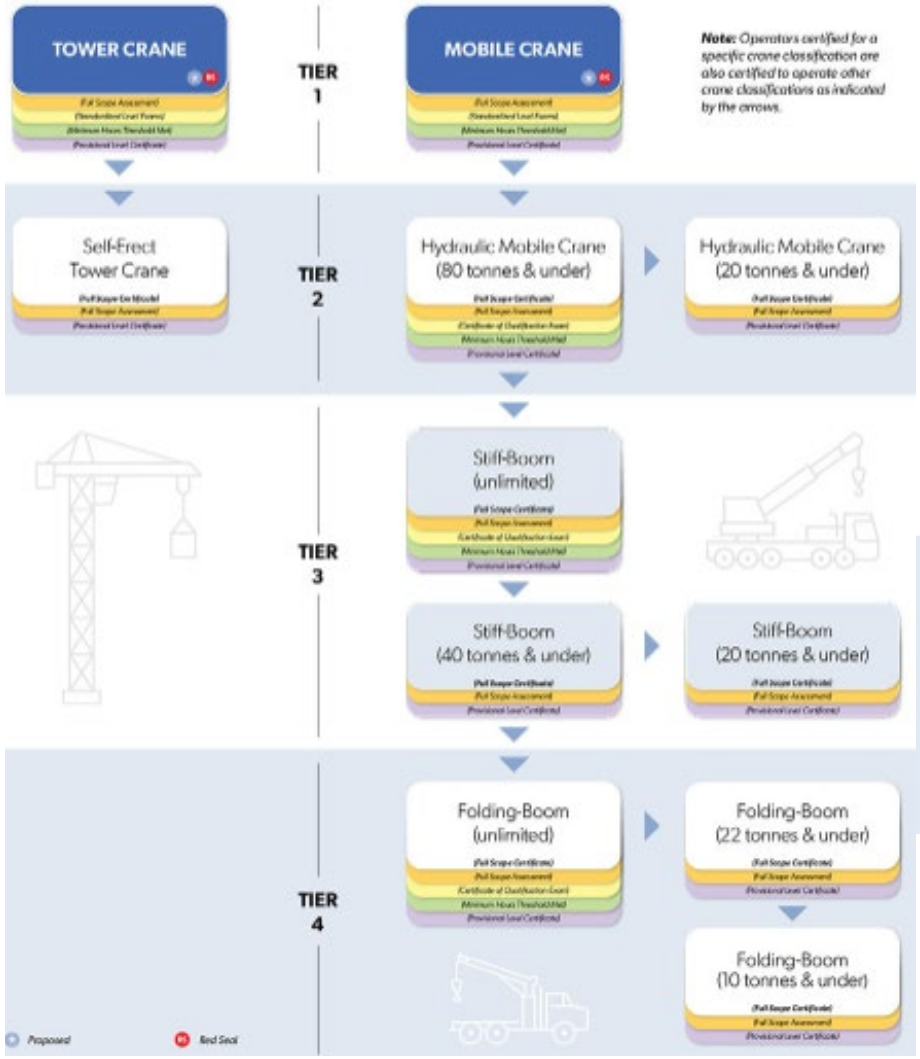
DID YOU KNOW?

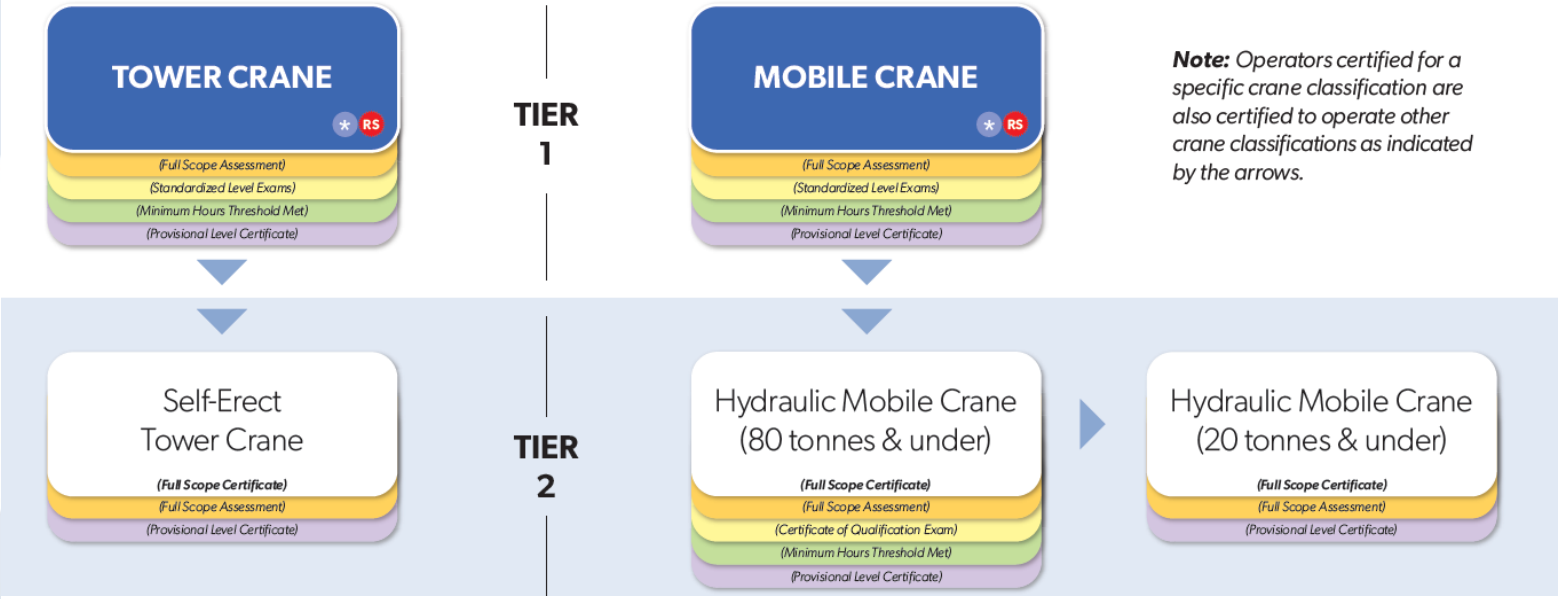
- ALL crane operators in the province of BC must be **registered** with BC Crane Safety (**OHSR 14.34.1**)
- Provisional tickets belong to the **sponsoring employer**, not the operator
- An incorrect sponsoring employer on a Provisional Certification makes it **invalid**
- “A” and “B” tickets are outdated terms for certifications- “**Full Scope**” and “**Provisional**” respectively are the official terms



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HIERARCHY OF CRANE CLASSIFICATIONS





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CERTIFIED / QUALIFIED / COMPETENT

Operator Certification – 14.34.1

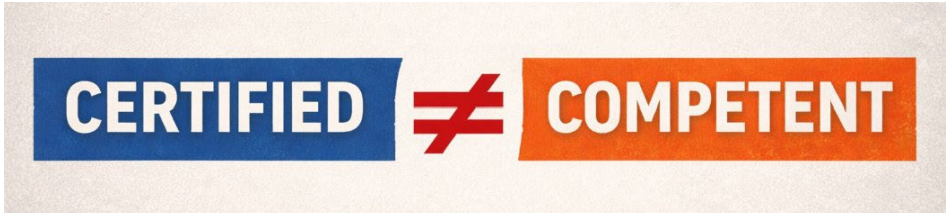
- On and after July 1, 2007, a mobile crane, tower crane or boom truck must be operated only
- (a) by a person with a valid operator's certificate issued by a person acceptable to the Board,

WorkSafeBC defines –"qualified"

- being knowledgeable of the work, the hazards involved and the means to control the hazards, by reason of education, training, experience or a combination thereof

Operator Qualifications – 14.34

- (1) A crane or hoist must only be operated by a qualified person who has been instructed to operate the equipment.
- (2) A person must demonstrate competency, including familiarity with the operating instructions for the crane or hoist and the code of signals for hoisting operations authorized by the Board before operating the equipment

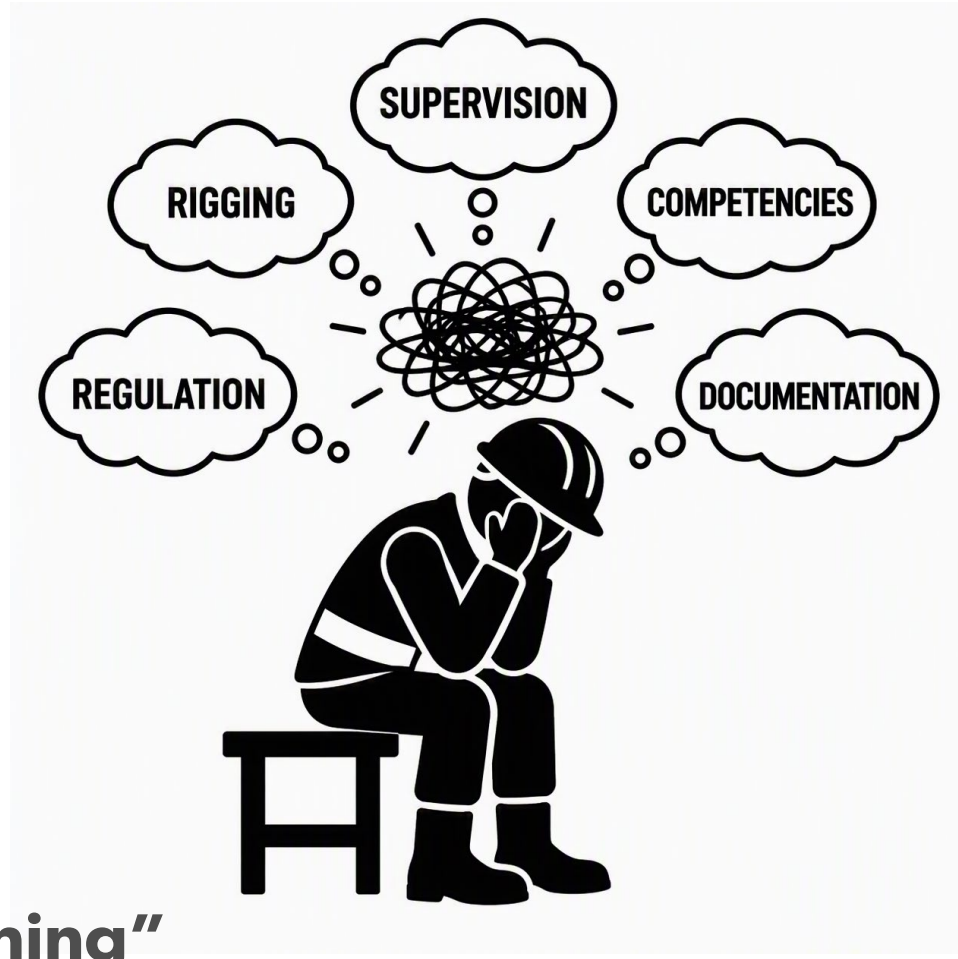


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FEELING OVERWHELMED?

Knowing what you need to know is a delicate balance…

- Easy to get way ahead, or outside of your scope
- Get back to basics and build up
- Communicate (!) expectations
- Know when collaboration would help/hinder
- Map out the things you <u>are</u> responsible for- PLANNING IS KEY



“Plans are nothing; planning is everything”

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CRANE SAFETY FUNDAMENTALS

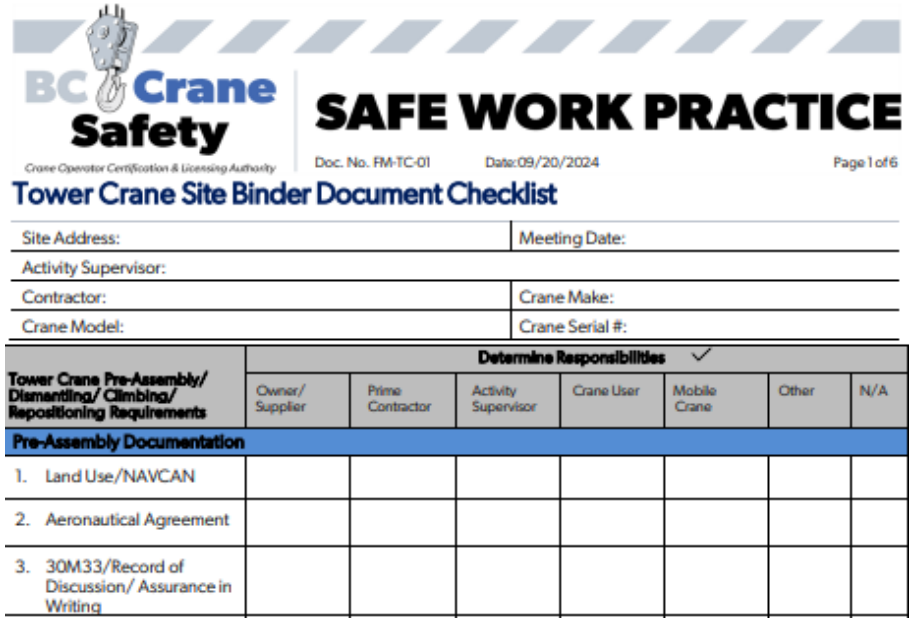
- **OHSR Parts 14 & 15 essentials**
- **Rigging basics**
- **Certification Following Misadventure – 14.16.1**
  - Contact, other than a contact that is consistent with operation as specified by the manufacturer or professional engineer
  - Shock load • loss of a load • brake failure • an upset • any other circumstance that may impair the safe operation of the crane or hoist
- **Critical Lifts – 9 total 14.1 (definitions)**
  - Lifting over or between power lines • lifting personnel • a lift where the centre of gravity OR the length of one or more slings changes • tandem lift
  - Must have a PRE-JOB MEETING held before hoisting and a written LIFT PLAN

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NOTICE OF PROJECT – TOWER CRANES (NOP-TC)

- Only applies to specific crane activities: **erecting, dismantle, climbing, & repositioning**
- **YES**, self-erect cranes are required to submit an NOP-TC
- Best practice to be filled out by the crane owner
  - ➢ Not the same as an NOP for construction
- Responsibilities checklist is **REQUIRED**
- Submission to the portal is required a minimum of 2 weeks in advance of the activity date
  - ➢ Late submission isn't a no, but you must talk to a crane team member
  - ➢ Follow instructions on the NOP-TC portal

Tower Crane Site Binder Templates
Tower Crane Site Binder Document Checklist
Tower Crane Binder – Table of Contents
Tower Crane Binder – Table of Contents Notes
OHSR & CSA Info for Tower Crane



BC Crane Safety
Crane Operator Certification & Licensing Authority

SAFE WORK PRACTICE

Doc. No. FM-TC-01 Date:09/20/2024 Page 1 of 6

Tower Crane Site Binder Document Checklist

Site Address:	Meeting Date:
Activity Supervisor:	
Contractor:	Crane Make:
Crane Model:	Crane Serial #:

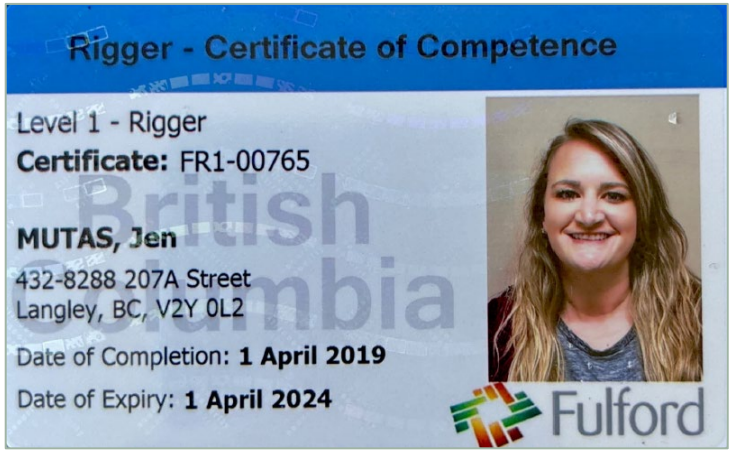
Tower Crane Pre-Assembly/ Dismantling/ Climbing/ Repositioning Requirements	Determine Responsibilities ✓						
	Owner/ Supplier	Prime Contractor	Activity Supervisor	Crane User	Mobile Crane	Other	N/A
Pre-Assembly Documentation							
1. Land Use/NAVCAN							
2. Aeronautical Agreement							
3. 30M33/Record of Discussion/ Assurance in Writing							

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RIGGING REALITY

- Not a stand-alone occupation in Canada
- No recognized provincial or national standard
- OHSR 15.2 states “rigging and slinging work must be done by, or under the direct supervision of qualified workers familiar with the rigging to be used and with the code of signals authorized by the Board for controlling hoisting operations.”

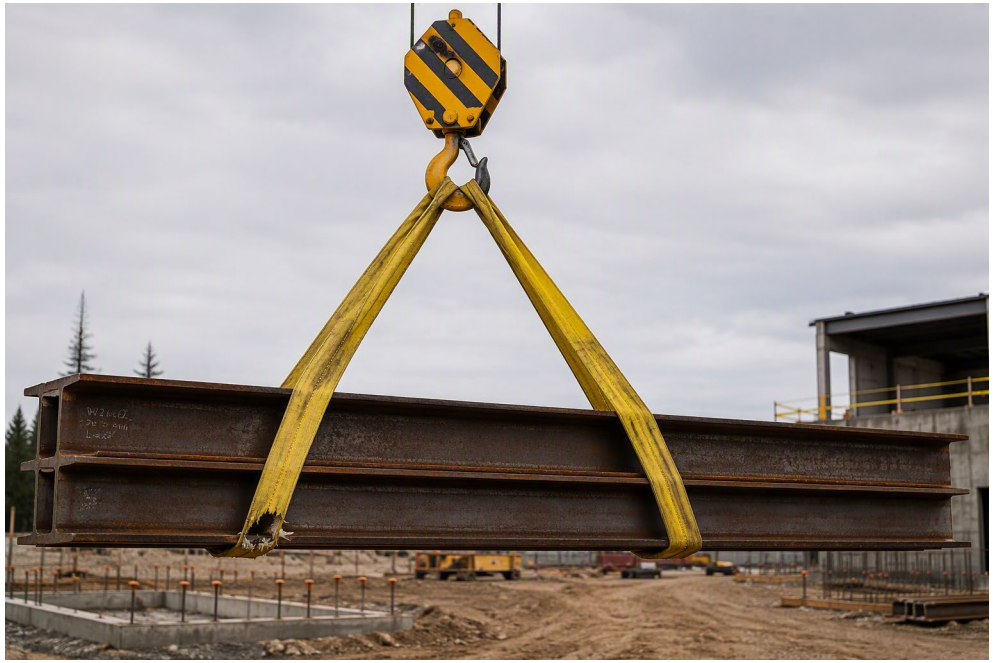




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RIGGING RED FLAGS

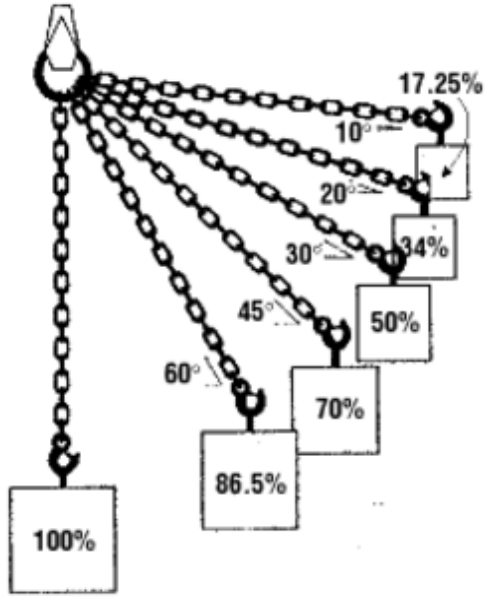
- **Inspection requirements and frequency**
  - What must be checked and how often?
- **Rejection criteria & removing from service**
  - What damage or defects make it unsafe to use?
- **Sling protection**
  - Where could the load cut or damage the slings?
- **Understand the impact of sling angles**
  - What happens to sling loading as the angle changes?
- **Selecting appropriate hitches**
  - WHY is this hitch suitable for this load?



Can the crew explain:
Why that rigging?
Why that hitch?
Why is it fit for service?

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RIGGING DILLIGENCE – WHAT CAN YOU DO?



- **Have the right equipment**
  - Hardware, rigging, and edge protection available in correct quantities and capacities
- **Get the RIGHT training**
  - Fundamentals, Advanced, Turning & Drifting, Master Rigger
  - Theory and practical training mix
- **Ask sub-contractors**
  - What does their rigging program look like?
- **Know OHSR Part 15**
  - Understand key components

Ensure worker rights are being followed and supported

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WHAT'S NOT WORKING

- Clouded or unknown responsibilities
- Not documenting appropriately
- Inadequate supervision or supervisor
- "Not my job"
- Unsuitable training
- Not trusting/leaning on the crane experts



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WHAT IS WORKING



- Empowering/educating staff
- Knowing how to be proactive rather than reactive
- Staying informed/up to date of the changing landscape
- Meaningful COLLABORATION

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AVAILABLE RESOURCES

YOUR COMPANY LOGO HERE

LIFT PLAN

BC Crane Safety

I. General Information

Project/Site Name		
Location/Address		
Date of Lift & Plan (if different)	Plan date:	Lift date:
Prepared By (Name/Role/Company)		
Crane Company		

2. Lift & Crane Description

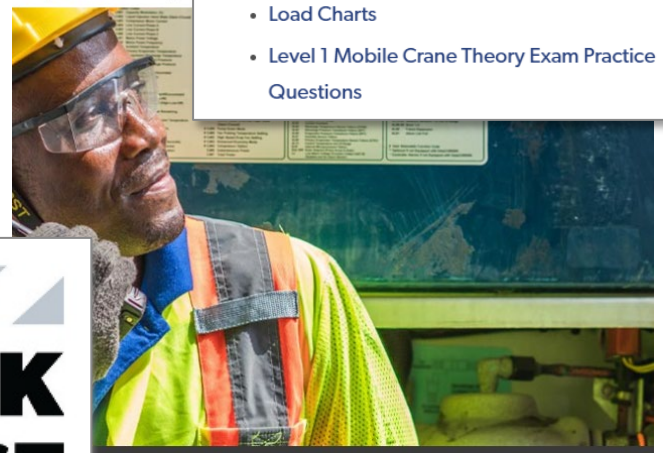
Type of Lift ☐ Normal ☐ Tandem 14.42 & 14.42(4) Tandem lift ☐ Critical 14.42.1 Critical lift	
Description of Load	
Weight of Load (how was weight determined) 14.36 Load weight	
Load Dimensions: L x W x H, Diameter, etc. 15.40 Slinging loads & 15.41 Multiple piece lifts	
Lift Radius & Height 14.5 Rated Capacity indication	Radius
Crane Type	☐ M
Crane Capacity at Planned Lift Radius and Percentage of Capacity Crane is Working at	Capacity
Boom/Jib Length 14.7 Boom angel indicator & 14.8 Boom extension and load radius indicator	
Configuration (main boom, jib, etc.)	
Ground Conditions	
Outriggers, Pads, Foundation 14.67 Outriggers and stabilizers & 14.69 Supporting surface 14.74 Tower crane support	
Center of Gravity ☐ Known ☐ Marked ☐ Estimated ☐ Calculated (by whom):	

SAFE WORK PRACTICE

Practice Questions and Quizzes

- Rigging
- Load Charts
- Level 1 Mobile Crane Theory Exam Practice Questions

BC Crane Safety



Knowledge Base

n hub to support you in the safe operation of cranes and performing crane related activities.

+ Crane Operator Logbook & SkillRecord Passport
+ Crane Preventive Maintenance
+ Dedicated Emergency Platform / Dedicated Evacuation Platform (DEP)
+ Preventing Heat Stress
+ Provisional Crane Operator
+ Rigging
+ Roles, Rights, and Responsibilities
+ Tower Crane Site Binder

UR LOGO HERE!

Tower Crane Specific Crane Operator Competency Assessment TEMPLATE

e address: _____ Date: _____

ane operator name and Certificate #: _____

rson conducting assessment: _____

ane make, model, and serial #: _____

Knowledge and Understanding of Manufacturer's Operating Manual

Competency: Demonstrates knowledge of the equipment manufacturer's operating manual, equipment limitations, load handling. and understands applicable regulatory requirements.

Maximum Capacity at given jib length _____ is _____

What is the maximum wind speed before the crane must be shut down?

_____

Are there temperature limitations for the crane? Yes/No If so, what are they?

_____

What section of the manual is load speed found? _____

Where is the crane manual kept? _____

Observation and feedback for operator safely operate crane as per manufacturer's instructions.

ons,
raffic.

Page 1 of 9

TOOLBOX TALKS

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INDUSTRY ACTION – CHANGES ARE COMING!

- **Certification Renewal** (BCACS) is near the finish line
- WorkSafeBC in the process of drafting **rigging competencies** and opening up Part 15
- **Skilled Trades Certification** for tower and mobile crane operators effective July 5, 2027
- CSA Z-248 (Tower Crane) and Z-150 (Mobile Crane) have **2026 editions**
  - WorkSafeBC referenced standards are 2004 and 1998 respectively
- **WorkSafeBC** Periodic Certification of Equipment as Safe For Use **amendments** effective September 1, 2027



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WHAT WILL YOU DO NEXT?



- **VERIFY COMPETENCE**
  Confirm credentials, equipment-specific procedures, and demonstrated workplace competency match the work being performed
- **STRENGTHEN LEADERSHIP**
  Review responsibilities, lift planning, supervision, communication, and documentation
- **STAY INVOLVED**
  Explore available resources, share related experience, and participate in consultations that influence the industry

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HOW TO REACH US

www.bccranesafety.ca

- Sign up for our NEWSLETTER & view our resource library- Toolbox Talks, SWP's, bulletins, etc.

Email: info@bccranesafety.ca
jen@bccranesafety.ca
trenton@bccranesafety.ca

Feedback makes us better – reach out!

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