

Tower/Self-Erect Crane Pre-Assembly/Dismantling Requirements

Site Address:	Meeting Dates:
Assembly/Dismantling Supervisor:	
Contractor:	Crane Make:
Crane Model:	Crane Serial #:

Tower/Self-Erect Crane Pre-Assembly/Dismantling Requirements	Determine Responsibilities ✓					
	Owner / Supplier	General Contractor	User	Erector	Mobile Crane	Other
<i>Crane Base: Type and Support</i>						
1. Crane installation and base drawing specific to the project and certified by a P. Eng. Check base drainage and site access and egress to the tower crane location.						
2. Prior to pour inspection of crane foundation assembly system and reinforcing steel certified by a P. Eng.						
3. Geotechnical engineer's soils report (bearing capacity) for crane base certified by a P. Eng. (Pressure results meeting crane installation drawing requirements.)						
4. Geotechnical engineers report for mobile crane location.						
5. Concrete compressive strength report required (MPA testing results as per crane installation drawing specifications).						
6. Crane structural components, including imbeds (anchor stools) are non-destructive tested and certified by a P. Eng.						
7. Electrical grounding equipment installed in base as per crane manufacturer and or electrical code prior to assembly.						
8. Crane power supply, hard-wired or generator (including lock out points) installed by qualified person with site specific power source permit from applicable power authority.						
<i>Crane Position: Proximity to Crane, Structures and Public Areas</i>						
9. Site layout review, including equipment layout areas, assembly area, mobile crane position.						
10. Identify flagged-off work areas (control zones), temporary lighting and worksite activity planning for day of erection.						
11. Traffic control plan, drawing and permit (if required).						
12. Crane component delivery trucks road travel route evaluated and staging (holding) location confirmed (if required).						
						Determine Responsibilities ✓

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13. Noise variance permit (if required).						
14. Overhead hazards evaluated, high voltage and trolley overhead power lines and electrical conductors identified.						
15. WorkSafeBC 30m33 or similar document obtained and submitted.						
16. Neighboring properties aware of crane erection, air rights, etc.						
17. Contact/check with Navigation Canada* for land use near airport information. (If work is within 6km radius of an airport)						
18. Transport Canada Aeronautical Assessment* for Obstruction Marking and Lighting (If within 6km radius of an airport).						
19. Identify who will supply and install navigation lighting.						
Emergency Preparedness						
20. First aid attendant on site for crane erection, with appropriate level of certification to use DEP Box for rescue if required.						
21. Technical High Angle Rope Rescue agreement via BC Construction Safety Alliance (BCCSA) website or alternate rescue system for erection crew (as required). DEP box on site.						
Worker and Equipment Safe Work Systems						
22. Crane operator has been provided with machine limit device pre-use (daily) testing procedures from the manufacturer or a professional engineer.						
23. Crane overlap, or site collision hazards (structures, trees, and equipment) evaluated. Crane anti-collision device installed on the crane.						
24. Specified safeguards in place and safe work procedures developed for crane overlap, or site collision hazards.						
25. Safe work procedures developed and communicated to affected workers for high voltage – overhead hazards.						
26. Mobile crane critical lift plan, including machine location, radii, heights, and obstructions.						
27. Fall protection plan for crane erection, maintenance, inspection, and repair.						
28. Lock out procedure for crane erection, maintenance, inspection and repair.						

NOTES: * Also see separate BC Crane Safety SWP – Tower Crane Assembly Near an Airport

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Worker Orientation and Training						
29. Crane operator has valid certification from BC Crane Safety and: <ul style="list-style-type: none"> Has demonstrated competency on the crane type Level B – trainee operator has a qualified supervisor. 						
30. Crane erection crew site orientation (site-specific).						
Crane Components						
31. Specialty engineering documents readily available for crane modifications, flood lighting, signage, etc. (if required).						
32. Air compressor, hose other specialized tools and temporary power are available, calibrated, and compliant (i.e., CSA, Power authority)						
33. Crane manufacturer’s operating manuals on site including erection procedures.						

SIGN-OFFs

Role	Description	Person Responsible	Confirmation
Owner	Owner / Supplier of the Tower Crane	Company: Phone #	Signed: Print Name:
General Contractor	Developer or General / Prime Construction Company responsible for the site	Company: Phone #	Signed: Print Name:
Assembly/ Dismantling Supervisor	Company that erects and installs the Tower Crane	Company: Phone #	Signed: Print Name:
Primary Operator	Sub-contractor / Employer leasing the Tower Crane	Company: Phone #	Signed: Print Name:
Mobile Crane	Owner / Lessee of the Mobile Crane contracted to assist in the erection and installation of the Tower Crane	Company: Phone #	Signed: Print Name: