

Construction Hoist Mast Erection and Extension - JSA - A

en-US · Basic task controls · v1.0 · 2026-10-13 · Sources: article section 9

Site: | Item ID: | Work area:

Approval	Work supervisor	Technical reviewer	Release / handover authority

1. Job details and team signatures

Date / time	Location / area			Assessor		Supervisor	
Team signatures							

2. Conditions and hold points

Stage	Time	Location / area	Environment / readings	Item / condition	Controls	Plant / tools	Approval / signature
HP-0 Start							
HP-1 Inspect parts and lifting							
HP-2 Align and connect							
HP-3 Tie and extend							
HP-4 Inspect and transfer							

Complete after actual checks. Recheck after changes, defects or shift handover.

3. JSA risk assessment

Job stage	Hazards and effects	Failure factors	Technical and procedural controls	Site verification	P	S	R	A
1. Review model and support	1. Mast collapse 2. Foundation settlement 3. Building-anchor failure	1. Final state used for erection 2. Support reaction unverified 3. Tie omitted	1. Match model and drawings 2. Review each erection state 3. Trace foundation and ties	1. Model and drawing revision 2. Erection load and projection 3. Foundation and building basis				
2. Control access and energy	1. Falling-object strike 2. Weather control loss 3. Unexpected car movement	1. Exclusion zone absent 2. Wind limit unknown 3. Restart not controlled	1. Separate work and exclusion 2. Review weather stop limits 3. Apply required isolation	1. Boundaries and signal owner 2. Weather and interference 3. Energy and support state				
3. Lift and approach	1. Suspended-section strike 2. Pinch injury 3. Adjacent collision	1. Signals conflict 2. Hands align joint 3. Route changes unseen	1. Use designated signaler 2. Keep hands out of gaps 3. Clear lifting path	1. Load path and visibility 2. Safe guiding method 3. Stop signal understood				
4. Align and connect	1. Section overturn 2. Joint failure on release 3. Fastener loss	1. Support removed too early 2. Some bolts incomplete 3. Mark used as sole proof	1. Follow connection sequence 2. Retain lifting support 3. Record specified fastening	1. Required joints complete 2. Tool method and values 3. Rack and mast alignment				
5. Tie and extend	1. Unsupported mast buckling 2. Tie anchor failure 3. Building connection failure	1. Tie work deferred 2. Wrong anchor detail 3. Final-state check only	1. Complete stage ties 2. Verify building connections 3. Check current geometry	1. Stage height and tie location 2. Anchor and structure evidence 3. Unsupported projection				
6. Inspect and transfer	1. Unverified hoist operation 2. Landing access fall 3. Use beyond accepted height	1. Trial run treated as release 2. Required inspection missing 3. Operating range unmarked	1. Complete applicable inspection 2. Verify landing protection 3. Mark permitted service range	1. Inspection and test records 2. Defect correction 3. Landing and service range				

P/S/R/A: Complete only after actual site assessment using the site risk method.

4. Pre-work checklist

☐ Model and drawing revision	☐ Boundaries and signal owner	☐ Load path and visibility
☐ Required joints complete	☐ Stage height and tie location	☐ Inspection and test records
☐ Foundation and building basis	☐ Rack and mast alignment	☐ Landing and service range