

Construction Hoist Mast Erection and Extension - JSA - C

en-US · Supervision, records, handover · 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. Equipment classification	1. Wrong hoist rules applied 2. Mismatched mast failure 3. Unreviewed erection method	1. Intended use unclear 2. Parts versions mixed 3. Instructions unavailable	1. Confirm hoist category 2. Match model and parts 3. Resolve erection procedure	1. Use classification 2. Component and drawing IDs 3. Erection document revision				
2. Stage design release	1. Mast instability 2. Tie pullout 3. Foundation overload	1. Final height used alone 2. Building reaction omitted 3. Temporary load ignored	1. Review each intermediate state 2. Verify support load path 3. Include erection loads	1. Stage height and projection 2. Foundation and tie design 3. Building acceptance				
3. Crew and access	1. Installer fall 2. Uncontrolled car motion 3. Dropped-tool strike	1. Anchorage unverified 2. Control authority unclear 3. Work below not excluded	1. Assign protected positions 2. Define movement controller 3. Separate erection zone	1. Access and rescue plan 2. Control and isolation owner 3. Exclusion responsibilities				
4. Connection acceptance	1. Early support release 2. Incomplete joint failure 3. Rack misalignment	1. Paint mark accepted alone 2. Fastening sequence lost 3. Inspection owner absent	1. Require connection evidence 2. Check prescribed fastening 3. Authorize support release	1. Tool and fastening record 2. Joint and rack alignment 3. Named release authority				
5. Extension and interruption	1. Unsupported mast overload 2. Weather-driven instability 3. Missed tie after shift	1. Next section added early 2. Stable stop state undefined 3. Open joints not transferred	1. Gate each extension cycle 2. Define safe interruption 3. Record incomplete stage	1. Current tie completion 2. Stopped configuration 3. Restart checks and limits				
6. Pre-service handover	1. Unsafe normal operation 2. Landing fall exposure 3. Unresolved safeguard fault	1. Test confused with acceptance 2. Approved range unclear 3. Inspection record absent	1. Complete applicable tests 2. Specify permitted service 3. Transfer accepted boundaries	1. Hoist-category inspection 2. Safety-device evidence 3. Operator acceptance and holds				

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

4. Pre-work checklist

☐ Use classification	☐ Stage height and projection	☐ Access and rescue plan
☐ Tool and fastening record	☐ Current tie completion	☐ Hoist-category inspection
☐ Erection document revision	☐ Named release authority	☐ Operator acceptance and holds