

Forklift Flooded Lead-Acid Battery Charging - JSA - B

en-US · Technical failure review · v1.0 · 2026-10-14 · 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 before connection							
HP-2 Connect with output off							
HP-3 Hold and resolve faults							
HP-4 Hand over truck							

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. Park and prepare bay	1. Ignition of charging gas 2. Electrolyte splash 3. Blocked emergency access	1. Ignition sources present 2. Flushing unavailable 3. Charging route obstructed	1. Control sparks and flames 2. Check emergency flushing 3. Keep response access clear	1. Designated bay and protection 2. Flushing and spill provisions 3. Ignition-source control				
2. Inspect before connection	1. Hot-connector failure 2. Gas accumulation 3. Acid contact	1. Cable damage ignored 2. Ventilation unverified 3. Leak overlooked	1. Inspect cables and plugs 2. Check ventilation and vents 3. Hold leaks or damaged parts	1. Covers and vent-cap condition 2. Ventilation operating evidence 3. No leakage or metal objects				
3. Connect with output off	1. Wrong charger operation 2. Cable trip 3. Connector damage	1. Wrong profile selected 2. Lead crosses walkway 3. Plug forced into place	1. Verify selected charger mode 2. Protect charging lead route 3. Use specified connection method	1. Charger mode and pairing 2. Cable support and route 3. Sound complete connection				
4. Charge and monitor	1. Charging-gas ignition 2. Acid release 3. Delayed fault response	1. Ventilation stops 2. Battery condition changes 3. Bay left uncontrolled	1. Maintain ventilation controls 2. Keep ignition sources excluded 3. Stop abnormal charging	1. Heat leakage and condition 2. Ventilation availability 3. Responsible attendant checks				
5. Stop and disconnect	1. Residual hot-part burn 2. Premature truck movement 3. Cable damage	1. Cooling condition ignored 2. Truck moved while attached 3. Lead left on floor	1. Check safe handling condition 2. Disconnect by correct method 3. Secure leads and covers	1. Required cooling or venting 2. Connection fully removed 3. Leads and compartment restored				
6. Hold and resolve faults	1. Fire or explosion 2. Unprotected acid contact 3. Unsafe live repair	1. Hot connector approached 2. Spill handled untrained 3. Battery energy forgotten	1. Use safe fault shutdown 2. Assign trained response 3. Verify cause and correction	1. Shutdown and remaining energy 2. Ventilation and repair evidence 3. Authorized restart conditions				

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

4. Pre-work checklist

☐ Designated bay and protection	☐ Covers and vent-cap condition	☐ Charger mode and pairing
☐ Heat leakage and condition	☐ Required cooling or venting	☐ Shutdown and remaining energy
☐ Ignition-source control	☐ Responsible attendant checks	☐ Authorized restart conditions