

Forklift Flooded Lead-Acid Battery Charging - JSA - A

en-US · Basic task controls · 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. Identify battery and charger	1. Wrong-profile overheating 2. Connector arcing 3. Battery damage	1. Chemistry assumed 2. Plug fit used as proof 3. Capacity mismatched	1. Identify flooded battery 2. Match charger and profile 3. Confirm on-truck permission	1. Battery chemistry and ID 2. Voltage capacity and profile 3. Approved connector pairing				
2. Park and prepare bay	1. Truck movement 2. Ignition of charging gas 3. Electrolyte splash	1. Brake not set 2. Ignition sources present 3. Flushing unavailable	1. Position and set brake 2. Control sparks and flames 3. Check emergency flushing	1. Truck and parking state 2. Designated bay and protection 3. Flushing and spill provisions				
3. Connect with output off	1. Electrical arc 2. Wrong charger operation 3. Cable trip	1. Charging output active 2. Wrong profile selected 3. Lead crosses walkway	1. Follow output-off procedure 2. Verify selected charger mode 3. Protect charging lead route	1. Output state and sequence 2. Charger mode and pairing 3. Cable support and route				
4. Charge and monitor	1. Overheating 2. Charging-gas ignition 3. Acid release	1. Alarm ignored 2. Ventilation stops 3. Battery condition changes	1. Monitor specified indications 2. Maintain ventilation controls 3. Keep ignition sources excluded	1. Charge status and warnings 2. Heat leakage and condition 3. Ventilation availability				
5. Hold and resolve faults	1. Repeated overheating 2. Fire or explosion 3. Unprotected acid contact	1. Reset used as repair 2. Hot connector approached 3. Spill handled untrained	1. Hold charging and access 2. Use safe fault shutdown 3. Assign trained response	1. Alarm and affected parts 2. Shutdown and remaining energy 3. Ventilation and repair evidence				
6. Hand over truck	1. Faulty battery reused 2. Unsafe travel 3. Missed charging defect	1. Charging completion overclaimed 2. Pre-use check omitted 3. Fault only passed verbally	1. Record charging outcome 2. Transfer operating restrictions 3. Require truck pre-use checks	1. Battery and charge record 2. Defects and corrective work 3. Receiving operator and holds				

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

4. Pre-work checklist

☐ Battery chemistry and ID	☐ Truck and parking state	☐ Output state and sequence
☐ Charge status and warnings	☐ Alarm and affected parts	☐ Battery and charge record
☐ Approved connector pairing	☐ Ventilation availability	☐ Receiving operator and holds