

Temporary electrical distribution and testing - JSA - B

en-SG · 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 Isolate							
HP-2 Dead tests							
HP-3 Live tests							
HP-4 Handover							

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. Isolate	1. Stored charge 2. Unexpected restart 3. Adjacent live parts	1. Remote start enabled 2. Tester not proved 3. Neutral overlooked	1. Disable auto restart 2. Prove dead by contact 3. Guard adjacent live parts	1. Tester before/after 2. All conductors checked 3. Discharge verified				
2. Mount and bond	1. Water ingress 2. Touch voltage 3. Access blocked	1. Glands unsuitable 2. PE path broken 3. Rod treated as PE	1. Fit rated glands 2. Bond PE to design 3. Keep isolator accessible	1. Covers secured 2. PE continuity 3. Earthing arrangement				
3. Route and wire	1. Sharp edge damage 2. Loose hot terminal 3. Coupler water ingress	1. Excess pulling force 2. Torque guessed 3. Tape-only repair	1. Support without strain 2. Use specified torque 3. Remove damaged leads	1. Cable identification 2. Torque record 3. Coupler and seal				
4. Dead tests	1. Electronics damaged 2. False pass 3. Retained test charge	1. Wrong test voltage 2. PE not tested 3. Result copied	1. Isolate sensitive loads 2. Test PE, polarity, IR 3. Discharge and recheck	1. Instrument identity 2. Actual test readings 3. Defects closed				
5. Live tests	1. Unexpected start 2. Protection failure 3. Contact with voltage	1. People in test zone 2. Wrong device test 3. Test button only	1. Use authorised LEW tester 2. Control energisation 3. Test specified protection	1. Device and test mode 2. Trip result record 3. Covers restored				
6. Use and faults	1. Repeated fault 2. Overloaded lead 3. Unauthorised opening	1. Blind breaker reset 2. New load not reviewed 3. Door left open	1. Isolate any defect 2. Review load changes 3. Retest after repair	1. Fault diagnosis 2. Retest evidence 3. Restart authorisation				

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

4. Pre-work checklist

☐ Tester before/after	☐ Covers secured	☐ Cable identification
☐ Instrument identity	☐ Device and test mode	☐ Fault diagnosis
☐ Discharge verified	☐ Defects closed	☐ Restart authorisation