

Temporary electrical distribution and testing - JSA - A

en-SG · 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 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. Plan supply	1. Backfeed 2. Excess load 3. Wrong protection	1. Sources not traced 2. Loads not listed 3. Device mismatched	1. Map every source 2. Size cable and protection 3. Select earthing system	1. Source drawing 2. Load schedule 3. Protection settings				
2. Isolate	1. Electric shock 2. Stored charge 3. Unexpected restart	1. Wrong isolator 2. Remote start enabled 3. Tester not proved	1. Lock all sources off 2. Disable auto restart 3. Prove dead by contact	1. Lock identifiers 2. Tester before/after 3. All conductors checked				
3. Route and wire	1. Vehicle crush 2. Sharp edge damage 3. Loose hot terminal	1. Route not protected 2. Excess pulling force 3. Torque guessed	1. Guard vehicle crossing 2. Support without strain 3. Use specified torque	1. Route clearance 2. Cable identification 3. Torque record				
4. Dead tests	1. Test voltage shock 2. Electronics damaged 3. False pass	1. Loads still connected 2. Wrong test voltage 3. PE not tested	1. Secure test boundary 2. Isolate sensitive loads 3. Test PE, polarity, IR	1. Test configuration 2. Instrument identity 3. Actual test readings				
5. Live tests	1. Arc flash 2. Unexpected start 3. Protection failure	1. Dead tests incomplete 2. People in test zone 3. Wrong device test	1. Release test hold point 2. Use authorised LEW tester 3. Control energisation	1. Dead-test review 2. Device and test mode 3. Trip result record				
6. Handover	1. Hidden change 2. Unknown live cable 3. Unsafe dismantling	1. Drawing outdated 2. No circuit labels 3. Disconnect under load	1. Update circuit register 2. Brief incoming team 3. Isolate before removal	1. As-built drawing 2. Receiving person 3. Isolation for removal				

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

4. Pre-work checklist

☐ Source drawing	☐ Lock identifiers	☐ Route clearance
☐ Test configuration	☐ Dead-test review	☐ As-built drawing
☐ Protection settings	☐ Actual test readings	☐ Isolation for removal