

Manhole cable splicing - JSA - C

en-SG · Supervision, records, handover · 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 Authorise and monitor entry							
HP-2 Identify and isolate cable							
HP-3 Exit on changed conditions							
HP-4 Restore and hand over							

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. Entry and electrical scope	1. Wrong cable worked 2. Uncontrolled entry 3. Rescue delayed	1. Space duties unclear 2. Cable owner unbriefed 3. Rescue not prepared	1. Assign entry permit roles 2. Agree electrical authority 3. Prepare effective rescue	1. Supervisor assessor manager 2. Cable owner and LEW scope 3. Attendant and rescue plan				
2. Access and atmosphere	1. Toxic exposure 2. Water engulfment 3. Vehicle strike	1. Intake draws exhaust 2. Inflow not controlled 3. Opening unguarded	1. Assess and test actual hazards 2. Control inflows and ventilation 3. Protect opening and routes	1. Sampling and sensor record 2. Airflow and water conditions 3. Access and traffic boundary				
3. Cable identity release	1. Wrong-circuit shock 2. Backfeed 3. Residual-charge contact	1. Label trusted alone 2. Source omitted 3. Test state unverified	1. Verify both-end identity 2. Isolate all relevant supplies 3. Verify safe electrical state	1. Cable and circuit evidence 2. Lockout and voltage record 3. Charge and induction controls				
4. Splice and test review	1. Defective insulation 2. Test-voltage shock 3. Heat-work atmosphere change	1. Kit mismatch 2. Test boundary unguarded 3. Heating not assessed	1. Match cable and kit 2. Control test and discharge 3. Reassess entry for heat work	1. Assembly and dry conditions 2. Test and post-test evidence 3. Current air and permit state				
5. Evacuation and reentry	1. Rescuer casualty 2. Premature reentry 3. Uncontrolled test energy	1. Ventilation loss ignored 2. Blower restart trusted 3. Old readings copied	1. Stop exit and account for people 2. Correct cause and reassess 3. Obtain fresh entry decision	1. Alarm and headcount record 2. Fresh tests and ventilation 3. Entry and electrical release				
6. Closure and handover	1. Person left inside 2. Unauthorised energisation 3. Public fall into opening	1. Headcount incomplete 2. Holds not transferred 3. Cover unsecured	1. Reconcile people and tools 2. Transfer restoration authority 3. Secure cover and surroundings	1. Entry and exit reconciliation 2. Kit tests and restrictions 3. Cover and receiving owner				

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

4. Pre-work checklist

☐ Supervisor assessor manager	☐ Sampling and sensor record	☐ Cable and circuit evidence
☐ Assembly and dry conditions	☐ Alarm and headcount record	☐ Entry and exit reconciliation
☐ Attendant and rescue plan	☐ Current air and permit state	☐ Cover and receiving owner