

Manhole cable splicing - 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 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. Protect opening and access	1. Vehicle strike 2. Exhaust drawn inside 3. Exit obstructed	1. Traffic route open 2. Intake by exhaust 3. Duct blocks ladder	1. Control traffic/pedestrians 2. Provide clean air intake 3. Maintain clear access	1. Traffic boundary 2. Intake/duct route 3. Ladder/escape path				
2. Authorise and monitor entry	1. Toxic exposure 2. Flammable atmosphere 3. Unnoticed entrant distress	1. Wrong sensors/locations 2. Attendant absent 3. Ventilation ineffective	1. Test and monitor hazards 2. Maintain attendant/contact 3. Verify ventilation/rescue	1. Actual air/flow record 2. Entrant/contact roster 3. Assessor manager and permit record				
3. Identify and isolate cable	1. Backfeed 2. Induced/stored voltage 3. Adjacent cable damage	1. Sources missed 2. Charge not controlled 3. Cable unsupported	1. Isolate all supplies 2. Verify de-energized state 3. Protect adjacent cables	1. LEW isolation and test record 2. Charge/induction controls 3. Cable support/protection				
4. Prepare and splice	1. Insulation defect 2. Moisture inclusion 3. Heating-process fire	1. Insulation scored 2. Dirty/wet kit 3. Heat work unassessed	1. Use suitable tools 2. Maintain dry clean assembly 3. Separately control heat work	1. Dimensions/insulation check 2. Clean/dry conditions 3. Heat/air/permit controls				
5. Test and make safe	1. Residual charge 2. Entry monitoring gap 3. Premature cover closure	1. Discharge omitted 2. Attendant leaves 3. People count incomplete	1. Discharge/verify after test 2. Maintain entry controls 3. Account for people/tools	1. Post-test safe state 2. Attendant/air status 3. People/tool count				
6. Exit on changed conditions	1. Rescuer casualty 2. Unsafe reentry 3. Uncontrolled test energy	1. Unprotected rescue 2. Old reading reused 3. Test boundary lost	1. Activate planned rescue 2. Reevaluate before reentry 3. Safely stop test energy	1. Rescue notification 2. Fresh evaluation/permit 3. Isolation/charge state				

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

4. Pre-work checklist

☐ Traffic boundary	☐ Actual air/flow record	☐ LEW isolation and test record
☐ Dimensions/insulation check	☐ Post-test safe state	☐ Rescue notification
☐ Ladder/escape path	☐ Heat/air/permit controls	☐ Isolation/charge state