

Ex equipment and cable gland installation - 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 Match approval							
HP-2 Isolate and support							
HP-3 Fit cable entry							
HP-4 Inspect and close							

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. Area and authority review	1. Ignition risk 2. Wrong equipment 3. Early energisation	1. Classification unclear 2. Certificate unmatched 3. LEW role missing	1. Match area and substance 2. Assign Ex specialist review 3. Confirm LEW and licence scope	1. Area drawing and device ID 2. Protection and thermal ratings 3. Electrical and inspection duties				
2. Certificate acceptance	1. Protection unsuitable 2. Conditions missed 3. Component misused	1. Family name alone 2. X conditions unread 3. U treated as equipment	1. Verify exact certificate issue 2. Resolve conditions of use 3. Check complete assembly basis	1. Model size and certificate 2. Specific conditions and limits 3. Installation requirements				
3. Isolation and work release	1. Shock or arc 2. Atmosphere ignition 3. Critical surface damage	1. External feed missed 2. Process changes 3. Unsafe handling	1. Verify all electrical feeds 2. Coordinate atmosphere controls 3. Protect critical surfaces	1. Isolation and test record 2. Process and permit boundary 3. Surface and support inspection				
4. Cable-entry assembly	1. Seal failure 2. Cable pullout 3. Bonding break	1. Diameter outside range 2. Armour mismatched 3. Spare entry left open	1. Measure actual cable 2. Use permitted entry components 3. Fit specified blanks and bonds	1. Cable structure and dimensions 2. Thread seal and gland match 3. Restraint and bonding checks				
5. Mismatch disposition	1. Protection damaged 2. Uninspected replacement 3. Repeated defect	1. Seal trimmed 2. Flamepath machined 3. Record overwritten	1. Hold assembly and power 2. Quarantine affected parts 3. Record approved correction	1. Mismatch and part identity 2. Before and after combination 3. Required reinspection evidence				
6. Pre-energisation transfer	1. Open entry 2. Unsafe power return 3. Lost traceability	1. Closure unexamined 2. Restriction unmarked 3. Certificate detached from ID	1. Inspect complete closure 2. Retain unresolved isolation 3. Transfer installed combination	1. Entry closure and fasteners 2. Ex inspection and LEW release 3. As-built parts and limitations				

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

4. Pre-work checklist

☐ Area drawing and device ID	☐ Model size and certificate	☐ Isolation and test record
☐ Cable structure and dimensions	☐ Mismatch and part identity	☐ Entry closure and fasteners
☐ Electrical and inspection duties	☐ Restraint and bonding checks	☐ As-built parts and limitations