

Hydraulic Hose Replacement on Isolated Equipment - JSA - A

en-US · Basic task controls · v1.0 · 2026-10-14 · Sources: article section 9

Site: | Item ID: | Work area:

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 Control residual pressure							
HP-2 Fit and route assembly							
HP-3 Hold and correct faults							
HP-4 Record 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. Identify circuit and assembly	1. Wrong-line release 2. Incompatible seal leak 3. Unexpected load motion	1. Hose ends not traced 2. Thread fit accepted alone 3. Circuit drawing outdated	1. Trace both hose connections 2. Match approved full assembly 3. Review actual circuit and loads	1. Circuit and hose IDs 2. Both connection locations 3. Assembly and seal specification				
2. Stop isolate and support	1. Load-drop crush 2. Unexpected pump start 3. Stored mechanical movement	1. Hydraulics hold load alone 2. Remote start remains 3. Support unsuitable	1. Lower or mechanically support 2. Isolate all energy sources 3. Control associated movement	1. Mechanical support basis 2. Energy points and locks 3. Remote and automatic sources				
3. Control residual pressure	1. Fluid injection 2. Hose whip 3. Trapped-fluid spray	1. Pump stop treated as zero 2. Check valves overlooked 3. One gauge used alone	1. Follow segment release method 2. Address both sides and traps 3. Control reaccumulation	1. Segment pressure evidence 2. Accumulator and valve paths 3. Both hose ends assessed				
4. Fit and route assembly	1. Hose abrasion failure 2. Fitting seal failure 3. Kink or twist rupture	1. Wrong seal or assembly 2. Bend limit exceeded 3. Hose twisted on tightening	1. Use approved parts and method 2. Maintain specified bend route 3. Control twist and supports	1. Part and seal identity 2. Fastening method and result 3. Bend twist and clamp condition				
5. Restore and test	1. Fluid injection 2. Unexpected equipment motion 3. Hose burst strike	1. Hands used for leak search 2. People remain in test area 3. Guards left open	1. Restore required safeguards 2. Clear and control test area 3. Use protected detection method	1. Test boundary and controls 2. Operating conditions recorded 3. Leak and movement observations				
6. Record and hand over	1. Incorrect replacement history 2. Missed early leak 3. Unsafe operating release	1. Part identity omitted 2. Follow-up not assigned 3. Test mistaken for approval	1. Link installed assembly record 2. Assign required follow-up 3. Transfer operating limits	1. Installed parts and date 2. Test and inspection results 3. Follow-up owner and timing				

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

4. Pre-work checklist

☐ Circuit and hose IDs	☐ Mechanical support basis	☐ Segment pressure evidence
☐ Part and seal identity	☐ Test boundary and controls	☐ Installed parts and date
☐ Assembly and seal specification	☐ Bend twist and clamp condition	☐ Follow-up owner and timing