

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 Inspect gas equipment							
HP-2 Support cut material							
HP-3 Ignite and cut							
HP-4 Shut down supply							

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 target and authority	1. Residue explosion 2. Wrong-member cutting 3. Toxic fume exposure	1. Service history unknown 2. Cut drawing confused 3. Coating unidentified	1. Confirm material and history 2. Match member and cut plan 3. Assess coating and fumes	1. Target and permitted scope 2. History and isolation boundary 3. Coating and ventilation basis				
2. Inspect gas equipment	1. Oxygen-system fire 2. Fuel-gas leak 3. Reverse flow	1. Oil or grease suspected 2. Wrong gas components 3. Protection mismatch	1. Keep oxygen equipment clean 2. Match gas-rated components 3. Verify specified safeguards	1. Gas and component IDs 2. Cleanliness and contamination 3. Protection device configuration				
3. Support cut material	1. Offcut fall 2. Residual-material explosion 3. Fire spread	1. Post-cut support absent 2. Unknown vessel accepted 3. Hidden combustibles retained	1. Support retained and cut pieces 2. Hold unknown-history items 3. Shield or remove combustibles	1. Support and cut sequence 2. History and exclusion scope 3. Fire precautions and watch				
4. Ignite and cut	1. Flame burns 2. Hose burn-through 3. Continuing flashback	1. Model sequence ignored 2. Hose crosses cut path 3. Abnormal sound ignored	1. Use actual torch procedure 2. Keep hoses clear of heat 3. Stop for abnormal behavior	1. Tip and pressure basis 2. Hose and flame direction 3. Flame and equipment condition				
5. Shut down supply	1. Residual-gas release 2. Smoldering fire 3. Hot-piece burns	1. Shutdown steps omitted 2. Watch ends too early 3. Hot pieces unmarked	1. Follow model shutdown 2. Control supply and residual gas 3. Maintain required fire watch	1. Valve and pressure condition 2. Hose storage and protection 3. Watch duration and release				
6. Close and transfer	1. Delayed fire 2. Uncontrolled gas supply 3. Hot-material contact	1. Watch release unrecorded 2. Cylinder status unclear 3. Offcuts poorly stored	1. Verify all exposed areas 2. Record completed shutdown 3. Mark and secure hot materials	1. Fire-watch release basis 2. Supply and residual-gas state 3. Offcut location and heat				

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

4. Pre-work checklist

☐ Target and permitted scope	☐ Gas and component IDs	☐ Support and cut sequence
☐ Tip and pressure basis	☐ Valve and pressure condition	☐ Fire-watch release basis
☐ Coating and ventilation basis	☐ Flame and equipment condition	☐ Offcut location and heat