

Portable weld-finish grinding - 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 Select wheel							
HP-2 Mount and trial							
HP-3 Grind within limits							
HP-4 Stop and inspect							

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. Finish and exposure scope	1. Weld section loss 2. Harmful coating dust 3. Lower-floor fire	1. Drawing unclear 2. Coating not identified 3. Spark paths unreviewed	1. Match weld and finish limits 2. Review material exposure 3. Coordinate hot-work boundary	1. Weld ID and drawing revision 2. Material and exposure review 3. Spark and combustible survey				
2. Wheel suitability	1. Wheel fracture 2. Wrong side loading 3. Guard exposure	1. Speed used as sole proof 2. Purpose marking unread 3. Mounting mismatched	1. Match purpose and speed 2. Verify contact face 3. Check mounting and guard	1. Tool and wheel identity 2. Purpose and rating evidence 3. Dimensions and guard checks				
3. Mounting and trial	1. Unexpected start 2. Damaged-wheel breakup 3. Bystander injury	1. Supply connected 2. Damage inspection omitted 3. Trial boundary absent	1. Disconnect at standstill 2. Inspect actual accessory 3. Conduct instructed safe trial	1. Isolation and wheel condition 2. Mount and handle inspection 3. Trial and exclusion record				
4. Production control	1. Kickback 2. Excessive weld removal 3. Dust and spark exposure	1. Workpiece shifts 2. Removal limit ignored 3. Capture or boundary lost	1. Maintain secure workholding 2. Check dimensions progressively 3. Stop if controls fail	1. Clamp and approach checks 2. Remaining weld dimensions 3. Capture and fire boundary				
5. Fault disposition	1. Repeated fracture 2. Unsound weld released 3. Unauthorised repair	1. Wheel changed without cause 2. Affected area unmarked 3. Electrical fault improvised	1. Review tool and weld separately 2. Retest corrected configuration 3. Use appropriate repair authority	1. Fault and affected weld ID 2. Replacement and test record 3. LEW interface if applicable				
6. Inspection and handover	1. Hidden fire spreads 2. Defective tool reused 3. Uninspected weld covered	1. Fire closeout skipped 2. Tool fault not tagged 3. Records lack location	1. Complete fire closeout 2. Segregate defective equipment 3. Transfer weld holds	1. Fire-watch disposition 2. Tool and wheel restrictions 3. Weld inspection and receiver				

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

4. Pre-work checklist

☐ Weld ID and drawing revision	☐ Tool and wheel identity	☐ Isolation and wheel condition
☐ Clamp and approach checks	☐ Fault and affected weld ID	☐ Fire-watch disposition
☐ Spark and combustible survey	☐ Capture and fire boundary	☐ Weld inspection and receiver