

Handheld belt sanding of bare wood - 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 Inspect belt and tool							
HP-2 Clamp and extract							
HP-3 Check belt travel							
HP-4 Store and handoff							

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. Inspect belt and tool	1. Unexpected start 2. Nip injury 3. Electric shock	1. Power connected 2. Guard missing 3. Damaged cord	1. Match belt specification 2. Keep guards intact 3. Inspect cord and switch	1. Power and switch state 2. Nip and unused-run guard 3. Electrical condition				
2. Clamp and extract	1. Dust accumulation 2. Edge tipping 3. Cable contact	1. Capture not prepared 2. Overhang unsupported 3. Cable in belt path	1. Connect suitable capture 2. Support overhang 3. Route cable and hose	1. Collector and hose 2. End support 3. Cable clearance				
3. Check belt travel	1. Hand entanglement 2. Tool pulls away 3. Dust escapes	1. Hand near roller 2. Poor grip 3. Hose blocked	1. Keep hands on grips 2. Maintain stable stance 3. Check actual capture	1. Guard and hand position 2. Tool control 3. Airflow at inlet				
4. Sand surface	1. Overheating 2. Dust inhalation 3. Material movement	1. Clogged inlet 2. Capture fails 3. Clamp loosens	1. Avoid excessive force 2. Maintain source capture 3. Watch workholding	1. Heat and odour 2. Dust capture 3. Clamp and cable				
5. Stop and collect	1. Dust cloud 2. Hot debris 3. Accidental restart	1. Bin opened connected 2. Heat ignored 3. Supply remains	1. Disconnect before collection 2. Check residual heat 3. Control power access	1. Disconnected state 2. Dust container 3. Heat and cleanup				
6. Hold drift or heat	1. Hand burn 2. Dust ignition 3. Repeated defect	1. Hot tool reused 2. Accumulation ignored 3. Cause not found	1. Check heat safely 2. Inspect belt and extraction 3. Test after correction	1. Belt and roller damage 2. Capture restoration 3. Controlled test record				

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

4. Pre-work checklist

☐ Power and switch state	☐ Collector and hose	☐ Guard and hand position
☐ Heat and odour	☐ Disconnected state	☐ Belt and roller damage
☐ Electrical condition	☐ Clamp and cable	☐ Controlled test record