

Handheld belt sanding of bare wood - JSA - A

en-SG · Basic task controls · 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. Select bare wood	1. Harmful dust 2. Ejected metal 3. Wood breakage	1. Material unknown 2. Nail remains 3. Split stock	1. Verify bare wood 2. Remove foreign objects 3. Reject unstable stock	1. Material and surface 2. Nails and inclusions 3. Cracks and support				
2. Inspect belt and tool	1. Belt rupture 2. Unexpected start 3. Nip injury	1. Torn belt 2. Power connected 3. Guard missing	1. Disconnect before checks 2. Match belt specification 3. Keep guards intact	1. Belt size and direction 2. Power and switch state 3. Nip and unused-run guard				
3. Clamp and extract	1. Workpiece ejected 2. Dust accumulation 3. Edge tipping	1. Weak clamp 2. Capture not prepared 3. Overhang unsupported	1. Secure wood and supports 2. Connect suitable capture 3. Support overhang	1. Clamps and stability 2. Collector and hose 3. End support				
4. Sand surface	1. Abrasion and pinch 2. Overheating 3. Dust inhalation	1. Excess pressure 2. Clogged inlet 3. Capture fails	1. Move with both grips 2. Avoid excessive force 3. Maintain source capture	1. Load and movement 2. Heat and odour 3. Dust capture				
5. Hold drift or heat	1. Belt rupture 2. Hand burn 3. Dust ignition	1. Belt pushed by hand 2. Hot tool reused 3. Accumulation ignored	1. Stop and disconnect 2. Check heat safely 3. Inspect belt and extraction	1. Fault location 2. Belt and roller damage 3. Capture restoration				
6. Store and handoff	1. Residual fire 2. Wrong material mixed 3. Defective tool reused	1. Hot dust stored 2. Metal residue mixed 3. Fault not tagged	1. Use designated disposal 2. Keep dust streams separate 3. Tag unresolved defects	1. Heat and cleanliness 2. Belt and material ID 3. Defect restrictions				

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

4. Pre-work checklist

☐ Material and surface	☐ Belt size and direction	☐ Clamps and stability
☐ Load and movement	☐ Fault location	☐ Heat and cleanliness
☐ Cracks and support	☐ Dust capture	☐ Defect restrictions