

Flour-bag hopper loading - 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 Support bags							
HP-2 Check capture							
HP-3 Hold abnormal feed							
HP-4 Clean and transfer							

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. Ingredient and stock review	1. Dust explosion 2. Respiratory exposure 3. Wrong hopper feed	1. Food grade assumed safe 2. Stock quantity omitted 3. Ingredient changed	1. Identify actual flour and hopper 2. Check dust warning and inventory 3. Assign occupier notification review	1. Ingredient and hopper identity 2. Label and maximum stock basis 3. MOM and owner interface				
2. Handling preparation	1. Back strain 2. Bag drops 3. Floor slip	1. Tipping too high 2. Bag unsupported 3. Spill left on route	1. Provide suitable support 2. Use handling assistance 3. Keep route and floor clear	1. Bag mass and reach 2. Support and handling aids 3. Floor and destination checks				
3. Capture and guard release	1. Dust inhalation 2. Entanglement 3. Ignition exposure	1. Fan noise used as proof 2. Guard bypassed 3. Dust equipment unsuitable	1. Verify capture at work position 2. Check guards and stops 3. Review dust-system suitability	1. Airflow and capture evidence 2. Guard and stop checks 3. Dust and exposure assessment				
4. Feed and bag control	1. Dust cloud 2. Cut injury 3. Packaging contamination	1. Fast high dumping 2. Cut toward hand 3. Empty bag shaken	1. Control drop and rate 2. Use safe supported opening 3. Fold within capture zone	1. Cutter and hand boundary 2. Flow and capture condition 3. Packaging and waste route				
5. Fault and health response	1. Entrapment 2. Continued exposure 3. Unexpected restart	1. Rod used while running 2. Symptoms ignored 3. Stop mistaken for isolation	1. Stop feed and control access 2. Transfer isolated fault clearing 3. Arrange symptom and exposure review	1. Blockage and retained material 2. Capture guard and energy state 3. Cause and restart evidence				
6. Cleaning and shift transfer	1. Dust resuspension 2. Vacuum ignition 3. Unresolved fault reused	1. Compressed air used 2. Cleaner unassessed 3. Hold only verbal	1. Use suitable low-dust method 2. Verify cleaning equipment 3. Transfer faults and stock changes	1. Cleaning and residual dust 2. Equipment use restrictions 3. Material balance and receiver				

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

4. Pre-work checklist

☐ Ingredient and hopper identity	☐ Bag mass and reach	☐ Airflow and capture evidence
☐ Cutter and hand boundary	☐ Blockage and retained material	☐ Cleaning and residual dust
☐ MOM and owner interface	☐ Packaging and waste route	☐ Material balance and receiver