

Flour-bag hopper loading - 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 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. Match ingredient	1. Wrong material exposure 2. Dust explosion 3. Respiratory sensitisation	1. Bag label unchecked 2. Dust review absent 3. Additives changed	1. Match product and instruction 2. Verify dust-hazard assessment 3. Assess ingredient changes	1. Product/bag/hopper ID 2. Dust-control basis 3. Ingredient composition				
2. Support bags	1. Back strain 2. Falling bag 3. Dusty-floor slip	1. Lift too high 2. Support unstable 3. Spillage ignored	1. Set suitable tipping height 2. Use handling assistance 3. Provide stable bag support	1. Bag weight/reach 2. Support and aids 3. Floor condition				
3. Check capture	1. Dust inhalation 2. Moving-part contact 3. Ignition of dust	1. Hood misplaced 2. Guard damaged 3. Equipment unsuitable	1. Verify capture indication 2. Maintain guards/interlocks 3. Confirm dust-compatible equipment	1. Airflow/capture evidence 2. Guard/interlock state 3. Dust equipment review				
4. Feed hopper	1. Dust cloud 2. Hand entanglement 3. Flour spill	1. High fast dump 2. Hand pushes residue 3. Feed exceeds capacity	1. Control drop and rate 2. Handle outside guard 3. Monitor flow and capture	1. Visible dust/capture 2. Hand boundary 3. Flow and sound				
5. Hold abnormal feed	1. Entrapment at blockage 2. Dust ignition 3. Respiratory harm	1. Rod inserted running 2. Capture fault ignored 3. Cough dismissed	1. Stop further feed 2. Restrict hopper access 3. Transfer isolated fault clearing	1. Blockage and material 2. Capture/guard condition 3. Health report				
6. Clean and transfer	1. Dust resuspension 2. Cleaner ignition source 3. Unresolved fault reused	1. Air blowdown 2. Unapproved vacuum 3. Fault only verbal	1. Use approved low-dust cleaning 2. Verify cleaning equipment 3. Transfer unresolved holds	1. Method/equipment suitability 2. Residual dust 3. Defect and restriction				

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

4. Pre-work checklist

☐ Product/bag/hopper ID	☐ Bag weight/reach	☐ Airflow/capture evidence
☐ Visible dust/capture	☐ Blockage and material	☐ Method/equipment suitability
☐ Ingredient composition	☐ Flow and sound	☐ Defect and restriction