

Wheel-loader aggregate 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 Control trucks and people							
HP-2 Approach and scoop							
HP-3 Hold and maintain							
HP-4 Depart park hand over							

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. Plan stockpile and load	1. Face collapse 2. Machine overturn 3. Overhang fall	1. Material unknown 2. Yard too weak 3. Undercut missed	1. Inspect face and material 2. Check bearing and room 3. Identify overhangs	1. Face stability 2. Ground and drainage 3. Truck loading limits				
2. Control trucks and people	1. Vehicle collision 2. Blind-zone crush 3. Driver struck	1. Waiting area unclear 2. Signals mixed 3. Driver location unknown	1. Separate traffic stages 2. Use agreed signals 3. Define driver safe location	1. Loading zone clear 2. Truck position 3. Driver location				
3. Inspect loader and bucket	1. Brake failure 2. Bucket release 3. Tyre failure	1. Coupler uncertain 2. Lock display misread 3. Tyre damaged	1. Verify actual attachment lock 2. Check brakes and warnings 3. Inspect tyres and joints	1. Coupler check 2. Brakes and alarms 3. Tyres and articulation				
4. Travel and approach truck	1. Raised-load overturn 2. Truck strike 3. Wheel lift	1. High bucket turn 2. Radius too tight 3. Rough ground	1. Use specified travel position 2. Control speed and turn 3. Use accepted route	1. Bucket and articulation 2. Ground condition 3. Visibility				
5. Dump and distribute	1. Cab strike 2. Truck overturn 3. Falling aggregate	1. Bucket crosses cab 2. Load one-sided 3. Person enters zone	1. Dump over bed only 2. Distribute accepted load 3. Keep exclusion effective	1. Cab clearance 2. Load amount 3. Distribution				
6. Depart park hand over	1. Traffic collision 2. Road spillage 3. Rollaway	1. No departure signal 2. Load insecure 3. Parking incomplete	1. Check load and route 2. Authorise departure 3. Park per instructions	1. Load and route 2. Departure signal 3. Parked safe state				

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

4. Pre-work checklist

☐ Face stability	☐ Loading zone clear	☐ Coupler check
☐ Bucket and articulation	☐ Cab clearance	☐ Load and route
☐ Truck loading limits	☐ Visibility	☐ Parked safe state