

Wheel-loader aggregate 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 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. Yard and traffic plan	1. Machine overturn 2. Pedestrian strike 3. Stockpile burial	1. Ground changes missed 2. Routes mixed 3. Face stability assumed	1. Review face and drainage 2. Demarcate people and vehicles 3. Brief loading sequence	1. Face and bearing evidence 2. Traffic and loading layout 3. Operator and driver briefing				
2. Truck position release	1. Loader-truck collision 2. Driver struck 3. Unplanned departure	1. Driver waiting place unclear 2. Vehicle unsecured 3. Signals conflict	1. Agree driver safe location 2. Secure stationary truck 3. Use one signal arrangement	1. Truck and driver location 2. Movement-prevention check 3. Loading person in charge				
3. Attachment acceptance	1. Bucket detaches 2. Brake failure 3. Hydraulic defect worsens	1. Lock display trusted alone 2. Brake defect ignored 3. Leak unreported	1. Verify prescribed lock check 2. Inspect brakes and warnings 3. Hold equipment defects	1. Coupler identity and lock 2. Brake tyre and joint checks 3. Maintenance disposition				
4. Scoop and travel review	1. Face collapse 2. Raised-load overturn 3. Blind movement	1. Undercut grows 2. Load carried high 3. Truck moved	1. Stop changed stockpile 2. Use specified travel position 3. Reassess changed layout	1. Material and face changes 2. Bucket and articulation 3. Route and visibility checks				
5. Dump and departure	1. Cab struck 2. Truck overload 3. Road spillage	1. Dump path crosses cab 2. Mass guessed 3. Truck leaves early	1. Keep dump over bed 2. Verify mass and distribution 3. Release departure after check	1. Cab clearance and exclusion 2. Load and distribution basis 3. Load route and exit signal				
6. Maintenance and handover	1. Raised-bucket crush 2. Articulation injury 3. Defective machine reused	1. Hydraulic hold trusted 2. Joint lock omitted 3. Fault not passed	1. Use prescribed support 2. Control articulation and energy 3. Transfer defects and near misses	1. Support and isolation state 2. Pressure-control evidence 3. Receiving owner and restrictions				

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

4. Pre-work checklist

☐ Face and bearing evidence	☐ Truck and driver location	☐ Coupler identity and lock
☐ Material and face changes	☐ Cab clearance and exclusion	☐ Support and isolation state
☐ Operator and driver briefing	☐ Route and visibility checks	☐ Receiving owner and restrictions