

Crawler Bulldozer Grading - JSA - A

en-US · 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 edges and people							
HP-2 Enter and trial							
HP-3 Stop and address faults							
HP-4 Park and 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. Review ground and plan	1. Ground settlement 2. Buried-service damage 3. Backfill-edge collapse	1. Ground history missing 2. Drawings differ from site 3. Yesterday conditions reused	1. Review fill voids and services 2. Confirm actual equipment route 3. Reassess after rain or change	1. Ground support evidence 2. Fill void and service locations 3. Drainage and recent weather				
2. Control edges and people	1. Reversing collision 2. Fall beyond edge 3. Soil strikes workers below	1. Walking route overlaps 2. Edge limits undefined 3. Work continues below	1. Separate pedestrian routes 2. Mark reviewed approach limits 3. Exclude lower affected area	1. Edge and approach boundary 2. Rear path and sight lines 3. Lower-area exclusion				
3. Inspect machine	1. Brake or steering failure 2. Hydraulic fire 3. Track derailment	1. Controls defective 2. Hose damage ignored 3. Track wear unreviewed	1. Check tracks brakes and steering 2. Inspect blade and hydraulic parts 3. Verify warning devices	1. Tracks and control checks 2. Blade hoses and fasteners 3. ROPS belt and access condition				
4. Push and grade	1. Edge collapse 2. Blade reaction overturn 3. Thrown material strike	1. Excessive push load 2. Cut depth exceeds plan 3. Exclusion breached	1. Follow accepted depth and direction 2. Monitor soil and machine response 3. Keep people outside work envelope	1. Push location depth and load 2. Ground and slope response 3. Marked services and obstructions				
5. Stop and address faults	1. Blade-drop crush 2. Recovery-line recoil 3. Further settlement	1. Hydraulics alone hold blade 2. Recovery improvised 3. Recovery load unknown	1. Lower or secure attachments 2. Isolate and mechanically support 3. Separate recovery from grading	1. Blade and movement control 2. Isolation and support evidence 3. Separate recovery plan				
6. Park and hand over	1. Unattended movement 2. Unsafe next-trade access 3. Parking-ground settlement	1. Blade left raised 2. Cracks not transferred 3. Soft parking location	1. Park on accepted support 2. Lower attachments as specified 3. Identify open ground and services	1. Machine parking state 2. Cracks steps and services 3. Remaining exclusions				

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

4. Pre-work checklist

☐ Ground support evidence	☐ Edge and approach boundary	☐ Tracks and control checks
☐ Push location depth and load	☐ Blade and movement control	☐ Machine parking state
☐ Drainage and recent weather	☐ Marked services and obstructions	☐ Remaining exclusions