

OPENSORE

Risk Assessment Case CX 145 Excavator



Hazards Requiring Attention:

0

AS AT

Wednesday, 11 February 2026

Next Review

Thursday, 11 February 2027

Total Hazards Recorded

43

Critical Risk Hazards

0

High Risk Hazards

0

Moderate Risk Hazards

10

Low Risk Hazards

33

Risk Matrix - Refer Procedure Risk Management

Probability	Low	Minor	Moderate	Major	Critical
Negligible	L2	L3	L4	M5	M6
Unlikely	L3	L4	M5	M6	H7
Possible	L4	M5	M6	H7	H8
Likely	M5	M6	H7	H8	E9
Almost Certain	M6	H7	H8	E9	E10

Case CX 145 Excavator

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
		Inherent Risk				Residual Risk		
Operation	Incorrect Operation	5	4	E9	Only trained and qualified staff to use plant. Operators must not exceed rated capacity at any time. Follow manufacturers handbook. Follow Work Method Statements. Pre-start checklist.	3	2	M5
Operation	Control Labels	5	4	E9	Maintain clean control labels on levers, buttons etc	3	2	M5
Operation	Fire	3	4	H7	Fire extinguisher installed on plant, serviced and tested and tagged	2	1	L3
Operation	Collision	4	4	H8	Phones must not be used whilst using plant. Left hand drive label must be legible at all times	1	1	L2
Operation	Crushing – loading and unloading	4	5	E9	Follow correct SWMS and training	2	3	M5
Operation	Crushing – load restraint	3	5	H8	Follow correct SWMS and training. Never use faulty or damaged restraining equipment	2	3	M5
Operation	Operation – passenger seat label	3	4	H7	No passengers are to be carried at any time, the label must be legible at all times	1	1	L2
Operation	Operation – ROPS label	3	4	H7	The warning label must not be damaged. It must legible at all times	1	1	L2
Operation	Operation – ROPS seatbelt label	3	4	H7	Seatbelts must be worn when operating machinery, the label must legible at all times	2	1	L3
Operation	Operation – Electrical approach distances	4	5	E9	Safe distances must be adhered to strictly. Correct training needed for plant. Labels must be legible at all times. Spotters are required when working within 5 metres of the minimum approach distance of any live electrical apparatus	2	1	L3
Operation	Operation – electrocution and explosion	4	5	E9	Never break ground without DBYD plans	4	1	M5
Operation	Operation – Hearing loss	4	4	H8	Correct PPE must be worn	1	1	L2
Operation	Operation – Hearing protection label	3	4	H7	Label must be present, clear and legible at all times for bystanders	1	1	L2

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Operation	Operation – crushing, pinching. Swing boom label	4	5	E9	Label must be present, clear and legible at all times for bystanders	1	1	L2
Operation	Operation – burns, entanglement and shearing. Engine guard label	4	4	H8	Label must be present, clear and legible at all times	1	1	L2
Operation	Operation – crushing, poor signage, boom lifting point table	4	5	E9	Table must be legible at all times. All operators must be properly trained	1	1	L2
Operation	Operation – burns from open cabin	3	4	H7	Correct PPE usage	1	1	L2
Operation	Operation – warning device (horn)	3	4	H7	Pre-start checklist making sure horn works and reversing alarm	1	1	L2
Operation	Operation - lifting	4	4	H8	Lifting point must be 'closed eye' type. Must have rated capacity level adjacent to lifting point. Must have lifting chart adjacent to operator. Lifting slings must be tested and in date	1	1	L2
Operation	Operation – front grader blade label, tall swing label, recovery point label	4	4	H8	Label must be present, clear and legible at all times	1	1	L2
Equipment Design	Design compliance - Burns	4	4	H8	Engine exhaust is fitted with a guard to prevent injury	1	1	L2
Equipment Design	Design compliance – collision	4	5	E9	Safety beacon is fitted	1	1	L2
Equipment Design	Design compliance – Entrapment	4	5	E9	There are two operator exits. These must be accessible at all times	1	1	L2
Equipment Design	Design compliance – crushing	4	5	E9	Seat belt must be free from damage and worn during operations	1	1	L2
Equipment Design	Design compliance – crushing	4	5	E9	Movement awareness alarm must be fully functional and serviceable	1	1	L2
Equipment Design	Design compliance – Crushing	4	5	E9	ROPS are fitted, permanent label must be attached. Seat belt must be worn at all times	1	1	L2
Equipment Design	Design compliance – burns, striking	4	4	H8	Hydraulic hoses must be inspected daily before each use though pre-start checklists. Never use any body parts to check for leaks. Always use cardboard to check for leaks	3	2	M5

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Equipment Design	Design compliance – entanglement	4	5	E9	Guards must be fully functional	1	1	L2
Equipment Design	Design compliance – incorrect operation. Intuitive controls	4	4	H8	Maintain plant at all times	1	1	L2
Equipment Design	Design compliance – slipping. Access/Egress	4	4	H8	Safe access/egress to work area must be maintained at all times	2	1	L3
Equipment Design	Design compliance – incorrect operation, slipping	4	4	H8	Control levers and foot controls must be kept non-slip	1	1	L2
Equipment Design	Design compliance – burns, electric shock	4	5	E9	The constraint and cover must be present and fully functional at all times	1	1	L2
Equipment Design	Design compliance – crushing FOPs	4	5	E9	Risk assessment must be conducted	1	1	L2
Equipment Design	Design compliance – burns striking	4	4	H8	The guard between hydraulic hoses must be in place at all times	1	1	L2
Equipment Design	Design compliance – poor visibility	4	4	H8	Lights must be fully functional. If they fail work must cease immediately	1	1	L2
Equipment Maintenance	Maintenance – incorrect operation	3	4	H7	Manufacturers Manual must be available at all times. JSEA must be completed daily	3	1	L4
Equipment Maintenance	Maintenance – operational malfunction	3	4	H7	Maintain service and maintenance records. Conduct regular inspections	3	1	L4
Equipment Maintenance	Maintenance – ROPS damage	3	4	H7	ROPS must be free from damage	3	1	L4
Equipment Maintenance	Maintenance – burns, striking, hydraulic damage	3	4	H7	Hoses must be free from damage. Daily inspection of hoses	3	1	L4
Equipment Maintenance	Maintenance – operational malfunction	3	4	H7	Minor leaks must be fixed within 14 days. Pre start checklists must be completed to avoid major and minor leaks	2	3	M5
Transport	Transport - Moving the excavator off the transporter	3	5	H8	Always remain at a safe distance from plant. Do not enter a work area unless they are in full view of the plant operator. Use a spotter where required.	1	5	M6
Transport	Transport - Crushing injury or body injury from working near plant or machinery	3	5	H8	Ensure correct machinery unloading process is followed and that it is undertaken by a competent person. Ensure that ramps are secured in place and that spotter is engaged	1	5	M6

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Transport	Transport - excavator falling off transporter	3	5	H8	Inspect transporting lugs for wear and tear. Check chains are tight and dog secured whenever loading machinery onto transporter	1	5	M6