



Activity Risk Assessment

Operation / Task:	Use of and work around 180 and 360 Degree Excavators	Name of Assessor:	Rhys Milton
Assessment Ref:	RA039	Date of Assessment:	02.01.2024
Persons at Risk:	ASW Employees	Reviewed by	R. Milton
Location / Area:	ASW Health and Safety Assessment 2024	Review date	31.12.2024

Ref	Activity	Hazard	Risk	Pre-Control Risk Rating			Control Measures	Post-Control Risk Rating			Comment
				L	S	LxS		L	S	LxS	
1	Use of and work around 180 and 360 Degree Excavators	Collision with other plant, vehicles, structures and persons	Injury or Death to Employees or members of the Public. Damage to property	5	5	20	Pre-Start Locate all UG/OH services in and around the work area and provide barriers and markers as necessary. Identify adverse gradients and ground conditions – select appropriate machines and operating position Ensure correct equipment is selected after consideration of working space (including slewing area), ground conditions, excavator capacities (if used for lifting), radius length (avoiding o/h cables and other obstructions) and operator visibility. Ensure the availability of the correct attachments for the work to be undertaken. Set aside a location for maintenance and the changing of attachments. No persons on foot to be present. Set out traffic and pedestrian routes to avoid swing areas and blind spots of excavator.	1	5	5	
		Overloading (causing overturning or failure of lifting mechanism)	Injury or Death to Employees or members of the Public. Damage to property	5	5	20		1	5	5	
		Overturning (on steep inclines or due to overloading or poor ground conditions)	Injury or Death to Employees or members of the Public. Damage to property	5	5	20		1	5	5	
		Mechanical or hydraulic failure (caused by overloading or poor maintenance)	Injury or Death to Employees or members of the Public. Damage to property	5	5	20		1	5	5	
		Machine falling in to excavation or causing collapse of side of excavation	Injury or Death to Employees or members of the Public. Damage to property	5	5	20		1	5	5	
		Contact with overhead or underground services	Injury or Death to Employees or members of the Public. Damage to property	5	5	20	On Site. Keep machinery a safe distance from excavations, benches or batters. Check certification of machine and operator before allowing work to commence. Machine must be inspected at least weekly and records kept in register. Check all mirrors, CCTV, etc. are fitted, correctly adjusted and in good working order. Check machine controls and safety features are working correctly before use. All cab guards must be removed and stowed and windows kept clean. Ensure the excavator operator is fully aware of the nature of the work to be carried out Ensure workers are made fully aware of their duties and work sequences Follow manufacturer's instructions for positive locking of quick hitches (lock pins), changing attachments and use for lifting and with breakers Ensure quick hitch attachments are locked before work begins. Workers responsible for attaching loads must establish a clear signalling system with the excavator operator. Before starting on site, excavator operators must be instructed that on no account are mobile phones to be used whilst operating an excavator. Before making or receiving calls and text messages, the excavator arm must be lowered and the machine switched off. Always enter and leave the excavator using the proper steps and hand holds Operators must wear the seat belt provided Ensuring clothing (such as reflective waistcoat) does not snag on controls as this could cause unexpected movements when the machine is started or the	1	4	4	
		Creation of crush zones (caused by failure to maintain 600mm clearance)	Injury or Death to Employees or members of the Public. Damage to property	5	5	20		1	5	5	
		Use of quick hitches on buckets and other attachments	Personal injury of operative or person adjacent	4	4	16		1	4	4	



Activity Risk Assessment

Operation / Task:	Use of and work around 180 and 360 Degree Excavators	Name of Assessor:	Rhys Milton
Assessment Ref:	RA039	Date of Assessment:	02.01.2024
Persons at Risk:	ASW Employees	Reviewed by	R. Milton
Location / Area:	ASW Health and Safety Assessment 2024	Review date	31.12.2024

Ref	Activity	Hazard	Risk	Pre-Control Risk Rating			Control Measures	Post-Control Risk Rating			Comment
				L	S	LxS		L	S	LxS	
		Risks associated with the repair and maintenance of excavators	Personal injury of operative or person adjacent	4	4	16	dead man dis-engaged Operators must lower and park the boom, switch off and remove the keys before leaving the machine unattended. The load capacities of the machine and any attachments must never be exceeded during lifting operations Quick hitch attachments must be checked frequently throughout the course of the work Make regular use of visibility aids at all times. If they become dirty or become displaced during the work, then stop and rectify. Use a banksman / spotter when view is limited or in congested and busy areas. Ensure all parties are aware of the operation to be carried out and the signals and communications to be used No person may approach a working excavator until they have signalled the operator and the operator has confirmed that it is safe to approach Workers must be aware of the swing area of the machine and any blind spots or areas of reduced driver visibility They must not enter into these areas whilst the machine is operating or stand below suspended loads No person may ride in, be lifted by or work from excavator buckets Hearing protection must be worn by operator and workers in vicinity if noise levels are above 85dB(A). Whole body vibration readings must be gained from operating manual.	1	5	5	
		Slips trips and falls when getting in or out of excavator	Personal injury of operative or person adjacent	4	3	12		1	3	3	
		Exposure to excessive noise levels for prolonged periods	Personal injury of operative	4	3	12		1	3	3	
		Whole Body Vibration	Personal injury of operative	2	5	10		1	5	5	

Likelihood	Severity	Risk factor (Likelihood x Severity)	
1 = Highly unlikely	1 = Insignificant	High Risk = 15-25	Unacceptable Risk. If Post Control risk, work must not commence.
2 = Unlikely	2 = Injury (first aid, no lost time)	Medium Risk = 8-12	If Post Control risk, high level of discipline required & monitoring to consider further controls where possible
3 = Possible	3 = Lost time injury	Low Risk = 1-6	Acceptable Risk assuming all controls in place effectively and workforce aware
4 = Probable	4 = Major injury / disabling condition		
5 = Inevitable	5 = Fatality		

I have read and understand the requirements of this risk assessment.

Name	Signature	Date