



Risk Assessment

Likelihood *L

1 = Improbable

2 = Remote

3 = Possible

4 = Probable

5 = Likely

Severity *S

1 = No Injury

2 = Minor Injury

3 = 3-day Injury

4 = Major Injury

5 = Fatality

5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5
	1	2	3	4	5

Risk = Likelihood x Severity

Low	Medium	High
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Hazard	Effect	Persons at Risk	Risk			Control Measures	Residual Risk		
			L	S	L*S		L	S	L*S
Pedestrians on Site	Hit by Moving Vehicle	Member of the public	3	3	9	CLEAR PEDESTRIAN ROUTES TO BE IDENTIFIED ON TRAFFIC MANAGEMENT PLAN BARRIERS AS APPROPRIATE	1	3	3
Noise from plant or tasks	Noise induced hearing loss	Employee	3	2	6	NOSIE ASSESSMENT FOR MACHINERY AND EQUIPMENT TO COMPLY WITH NATIONAL STANDARDS. HEARING PROTECTION SHOULD EQUIPMENT BE ABOVE 80DBA	1	1	1
Poor Working Environment (Mud, Dirty, Dust)	Eye Injury, Stomach Bug etc.	Employee	3	4	12	GOOD HOUSEKEEPING ON SITE GOOD PERSONAL HYGIENE USE OF PPE - GLOVES, BOOTS, GOOGLES, HEARING PROTECTION	1	4	4



Hazard	Effect	Persons at Risk	Risk			Control Measures	Residual Risk		
			L	S	L*S		L	S	L*S
Working Near Overhead Powerlines	Electrocution/Death	Employee	3	5	15	COMPETENT OPERATORS TRAINED OPERATORS DIAGRAMS AND PLANS OF SERVICES FULL CAT SCAN WHERE MORE THAN 1 OPERATOR WORKING ON THE SAME SYSTEM ALL SHALL LOCK AND TAG ONTO THE FEEDER PILLAR	1	5	5
Site or public traffic	Hit by Moving Vehicle	Employee	3	3	9	SIGNING AND GUARDING TO SAFETY AT STREET WORKS AND ROAD WORKS A CODE OF PRACTICE (TRAFFIC SIGNS MANUAL). TRAFFIC MANAGEMENT SYSTEM TO BE USED AND ADHERED TO WHERE NECESSARY. EMPLOYEE AWARENESS AND TRAINING	1	3	3
Plant and Vehicle movement	Hit by Moving Vehicle	Employee	3	4	12	PEDESTRIAN AND VEHICLE SEGREGATION WHERE POSSIBLE USE OF BANKSMAN WHERE REQUIRED HI VIS CLOTHING TO EN471 FLASHING AMBER BEACONS DISPLAYED ON VEHICLES DRIVER TRAINING EMPLOYEE AWARENESS AND TRAINING	1	3	3
Vibrating Equipment	Hand Arm Vibration Syndrome	Employee	3	3	9	ASSESSMENT OF VIBRATION LEVELS ANTI VIBRATION HANDLES FITTED TO BREAKER/EQUIPMENT	1	3	3
Bursting Hot and/or Pressurised Oil Hydraulic Pipelines	Burns/Scalds	Employee	3	4	12	WELL MAINTAINED EQUIPMENT VISUAL INSPECTION	1	4	4



Hazard	Effect	Persons at Risk	Risk			Control Measures	Residual Risk		
			L	S	L*S		L	S	L*S
Bursting of Compressed Air Hose	Explosion	Employee	3	4	12	PRESSURE REGULATED TO SAFE LEVELS, SECURITY WIRE FITTED BETWEEN BREAKER AND HOSE TO AVOID "SNAKING" OF ACCIDENTALLY DISCONNECTED HOSE UNDER PRESSURE	1	4	4
Excavator in Contact with Underground Services	Electrocution, Explosion, Water Mains Burst	Employee	3	3	9	IDENTIFY AND CONFIRM SERVICES PRIOR TO WORK COMMENCING, PERMIT TO DIG IF REQUIRED	1	3	3
Dust	Respiratory Irritation	Employee	3	3	9	USE WATER OR SIMILAR DUST SUPPRESSANT MEASURE WHERE APPLICABLE USE OF RESPIRATORY PROTECTION	1	3	3
Inexperienced Drivers	Out of Control Plant, Hit by Moving Vehicle	Employee	3	4	12	PEDESTRIAN AND VEHICLE SEGREGATION WHERE POSSIBLE USE OF BANKSMAN WHERE REQUIRED SKILLED OPERATORS TO CITB, SPCS OR EPIC STANDARD INCLUDING WHERE APPROPRIATE NVQ LEVEL 2 SPECIALIST PLANT OPERATIONS EMPLOYEE AWARENESS AND TRAINING	1	3	3
Raised Bodies	Collapse/Entrapment	Employee	3	3	9	USE OF CORRECT PROPS FOR LORRY BODIES, EXCAVATOR ARMS ETD EMPLOYEE AWARENESS AND TRAINING	1	3	3
Removed Guards	Entrapment, Physical Injury	Employee	3	3	9	ENSURE EQUIPMENT IMMOBILISED BEFORE GUARD REMOVAL LOCK OUT, TAG OUT	1	3	3



Hazard	Effect	Persons at Risk	Risk			Control Measures	Residual Risk		
			L	S	L*S		L	S	L*S
Refueling	Fire/Explosion	Employee	3	4	12	NO SMOKING FIRE EXTRINGUISHER TO BE DEPLOYED USE OF CORRECT FUELLING APPLIANCE TO AVOID SPLASES MOBILE PLANT TO BE FUELLED FROM BOWSERS WHERE POSSIBLE	1	4	4
Reversing Vehicles	Hit by Moving Vehicle	Employee	3	4	12	PEDESTRIAN AND VEHICLE SEGREGATION WHERE POSSIBLE USE OF BANKSMAN WHERE REQUIRED HI VIS CLOTHING TO EN471 FLASHING AMBER BEACONS DISPLAYED ON VEHICLES, DRIVER TRAINING, EMPLOYEE AWARENESS AND TRAINING	1	3	3
Excavations	Falls from Height, Collapse of Trench, Personal Injury	Employee	3	3	9	TRENCH SHORING BARRIERS COMPETENCY EMPLOYEES	1	3	3
Debris and Equipment in the Working Area	Slips, Trips and Falls	Employee	3	4	12	Ensure all walkways are free from trip hazards. All personnel to wear laced safety footwear No walking on batters, use designated access routes. Keep access routes clear. Good housekeeping to be maintained at all times Park vehicles at suitable location to welfare facility. Provide suitable fencing, signing and guarding to the working area as necessary. Use designated/ proper access to enter and exit plant.	1	4	4



Hazard	Effect	Persons at Risk	Risk			Control Measures	Residual Risk		
			L	S	L*S		L	S	L*S
Environmental Impact	Emission to Air, Water or Groundwater, Damage to Flora and Fauna, Use of Fossil Fuels, Nuisance to Neighbours	Member of the public	3	1	3	Operative to be trained and supervised. Careful excavation in good weather conditions Frequent Vehicle and plant maintenance Careful operations near trees and hedgerows. Frequent vehicle and plant maintenance. Noise mitigation methods employed as required. Noise monitoring Refuel as much as is practical in the yard. All fuel bowsters to carry adequate spill kit and granules, and funnels. Refuelling only to be carried out by designated person. Refuelling not to take place within 30m of a watercourse/drain Observe Traffic Management Plan, Dust management, observe agreed working hours	1	1	1
General Arrangements	General Safety	Employee	3	3	9	ALL EMPLOYEES/ CONTRACTORS/ VISITORS TO ATTEND SITE INDUCTION ALL EMPLOYEES/ CONTRACTORS/ VISITORS TO LOG INTO THE DAILY SITE REGISTER ALL PERSONNEL TO COMPLY WITH SITE RULES SITE SUPERVISOR TO DEVELOP AND SHARE SCOPE OF WORKS RAMS TO BE COMMUNICATED TO RELEVANT PERSONNEL	1	1	1
Working with Electrical Systems	Electrocution/E xplosion/Fire	Employee	3	4	12	COMPETENT ELECTRICIAN Only qualified electricians with ECS cards to work on electrical systems PERMIT TO WORK TO BE OBTAINED FROM CLIENT All supplies to be locked off unless the system IS BEING tested and commissioned	1	4	4



Hazard	Effect	Persons at Risk	Risk			Control Measures	Residual Risk		
			L	S	L*S		L	S	L*S
Tools and Equipment	Electrocution/Explosion/Fire/Hit by Falling Object/Projectile Ejected	Employee	3	4	12	CORDLESS ELECTRICAL TOOLS USED (DRILLS, JIGSAWS, ETC.) PAT TESTING INSPECTION AND RECORD NOISE ASSESSMENT WERE NECESSARY HAVS ASSESSMENT WHERE NECESSARY PPE SUCH AS FACE/EYE PROTECTION, GLOVES, SAFETY BOOTS AT ALL TIMES, DUST MASK FFP2 MIN & HI VISIBILITY CLOTHING PRE USE INSPECTION	1	4	4
Lone Working	Un Aided Incident or Accident	Employee	3	3	9	Operatives will not be permitted to work alone	1	3	3
Chemicals and Substances Hazardous to Health	COSHH Related Ill Health	Employee	3	4	12	Material safety data sheets available at the work site COSHH training for all operators regarding the substance they are using	1	4	4