

Risk Assessment

Activity	Electrical Installation	Ref.	RA214
Description	Installation works to a mains powered electrical system.		
Assessor		Date	

Hazard Identification

Hazard	Likelihood			Severity			Risk		
Live power	L	M	H	L	M	H	L	M	H
Electrical burns/ shock	L	M	H	L	M	H	L	M	H
Flammable/ explosive environment	L	M	H	L	M	H	L	M	H
Slips, trips, and falls	L	M	H	L	M	H	L	M	H
Vibration	L	M	H	L	M	H	L	M	H
Hand tools	L	M	H	L	M	H	L	M	H
Portable electrical equipment	L	M	H	L	M	H	L	M	H
Work at height	L	M	H	L	M	H	L	M	H
Manual handling	L	M	H	L	M	H	L	M	H
Fire	L	M	H	L	M	H	L	M	H
Asbestos	L	M	H	L	M	H	L	M	H
Noise	L	M	H	L	M	H	L	M	H
	L	M	H	L	M	H	L	M	H
	L	M	H	L	M	H	L	M	H
	L	M	H	L	M	H	L	M	H
	L	M	H	L	M	H	L	M	H
	L	M	H	L	M	H	L	M	H

People At Risk

- ☐ Workers
- ☐ Adjacent Workers
- ☐ Site Wide Workers
- ☐ Occupants
- ☐ Visitors
- ☐ Members of Public

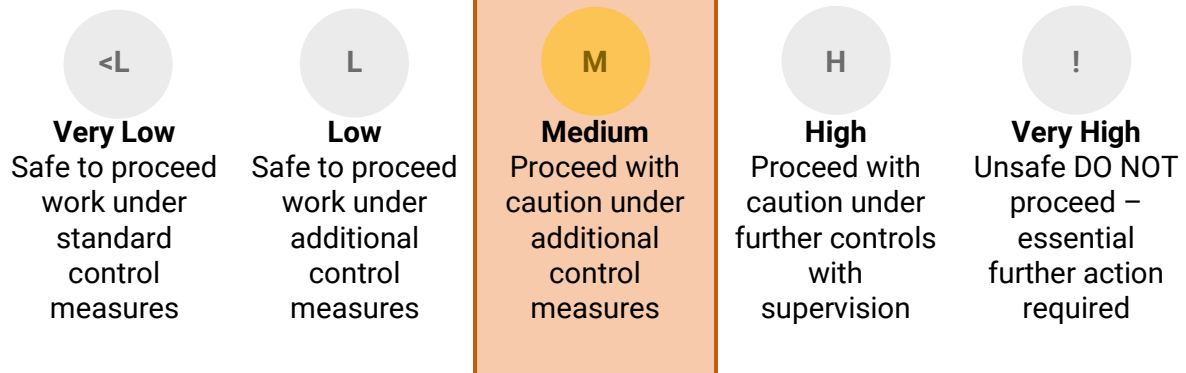
Controls

Risk	Control Measures
Live power Contact with live power	<ul style="list-style-type: none"> • Except when testing circuits, no work will be carried out on live circuits. • All isolation points identified and securely isolated with lock off and signs. • High risk electrical work to be controlled under a permit to work system. • All isolation switches to be clearly labelled. • Live electrical work not carried out in wet areas forbidden.
Electricity Electric shock or electrocution	<ul style="list-style-type: none"> • Only competent electricians, with adequate training and experience, will carry out and supervise the work. • All wiring (including temporary) will be installed to appropriate and recognised standards. • All electrical works carried out on site will be to the I.E.T. Wiring Regulations specification. • Existing and permanent fixed supplies will not be used to supply contractors' equipment during construction work. • The complete circuit will be tested following the latest electrical regulations before connection. • All fixed installations are inspected by a competent person every 5 years and records kept. • Electrical equipment is regularly maintained in line with the manufacturers recommendations. • Damaged items to be removed from service to be repaired or destroyed with precautions to prevent accidental usage. • Regular visual inspections of equipment.

Risk	Control Measures
Environment Flammable / explosive environment	<ul style="list-style-type: none"> • Electrical works within confined spaces and areas with restricted ventilation subject to permit to work, with checks to ensure safe atmosphere for works to proceed. • Spark proof/ intrinsically safe tools used where necessary as a result of atmosphere monitoring.
Slips, trips, and falls Injury from slip and trip hazards	<ul style="list-style-type: none"> • Any spillages to be cleaned up immediately. • Equipment installed and located to not block access or egress or create a trip hazard. Care is taken to ensure that trailing leads do not pose a trip hazard. • Extension leads routed so as not to cause a tripping hazard and routes away from access routes. • Good housekeeping regime and monitoring in place. • Suitable footwear worn.
Vibration Exposure to vibration	<ul style="list-style-type: none"> • Where vibrating tools are used, exposure levels assessed. • Use of vibrating tools minimised through task allocation, job rotation, and regular breaks. • Use restricted in cold weather due to increased risk.
Hand tools Cuts or entanglement	<ul style="list-style-type: none"> • All hand tools and equipment should be visually checked for faults before use. • Any faults reported to supervisor and tool taken out of use for repair or replacement. • Correct use of tools in accordance with manufacturer's recommendations at all times and specific risk assessments for hand tools/ equipment where risks are significant. • Wear gloves during use of tools with sharp edges or blades. • No loose clothing or dangling jewellery. Tie back long hair.
Portable electrical equipment Risk of electric shock	<ul style="list-style-type: none"> • All portable appliances checked at regular intervals. • A schedule of PAT testing and up to date inventory of portable electrical equipment to be kept. • All equipment to be serviced and maintained in line with manufacturers recommendations. • Any faults to be reported to management immediately and the equipment taken out of use. • All portable electrical equipment is identified by a unique number marked on the equipment. • Visual inspections to be carried out before use. • Protect any exposed cables.

Risk	Control Measures
Work at height Falls from height	<ul style="list-style-type: none"> • Where there is a risk of falls, scaffold or trestles with edge protection to be used. • Particular care to be taken over stairwells where suitable fall protection measures must be in place. • A visual check of scaffolds to be made before use. If any missing rails or boards, untied ladders or other problems observed, work to stop and the site manager to be informed.
Manual handling Injury from lifting and carrying	<ul style="list-style-type: none"> • Manual handling activities minimised and eliminated where possible. • Ensure manual handling risk assessment completed and adhered to. • Do not lift items if they are too heavy or awkward. • Use mechanical aids or team lifting as necessary.
Fire Increased risk of ignition	<ul style="list-style-type: none"> • Electrical works within confined spaces and areas with restricted ventilation subject to permit to work, with checks to ensure safe atmosphere for works to proceed. • Spark proof/ intrinsically safe tools used where necessary as a result of atmosphere monitoring. • Removal of any flammable items from work area. • Fire extinguishers to be available suitable for fire type (CO₂ plus any other fire risks within work area).
Asbestos Accidental exposure	<ul style="list-style-type: none"> • No work to be undertaken where asbestos may be disturbed. • Refer to asbestos survey for location of asbestos materials before commencing work. • If asbestos is found or suspected stop work immediately, evacuate area and inform the site manager. • All operatives to have asbestos awareness training.
Noise Exposure to noise	<ul style="list-style-type: none"> • During use of equipment producing high noise levels (over 80dB) • operative and those adjacent to wear ear defenders during use. • Only essential staff to be in close proximity during use. • Only short term use expected.

Risk Level



Further Action

Action Required	Timeframe	By	Date
Ensure adequate supervision is provided and that control measures remain valid for the duration of the works.	Ongoing		
Safe systems of work are provided and issued to all staff and training provided in their use.	1 week Refresh at instructions		
All staff to be trained in the importance and use of correct Personal Protective Equipment and wearing of the correct PPE made a condition of employment.	1 week Refresh at inductions		



Acknowledgement

Name	Signature	Date

