

Workplace Hazards in Electrical Work

This fact sheet is for students undertaking work experience programs, and for their host employers. It can be used as a tool to assist with task planning, and to develop appropriate induction, training and supervision to minimise any risk to students while they are 'at work'.

Students must be given instruction, and must be supervised at all times. Consideration must always be given to hazards when allocating tasks. If any risk exists, students must NOT undertake the activity.

Hazard	Possible Harmful Effects	Possible Employer Action to Prevent Injury / Illness	Preventative Action Students Can Take
Powered and non-powered tools	Electrocution Being struck by broken drill bits, cutters, swarf (potential for serious eye, head or facial injury) Cuts and lacerations	Students must NOT operate powered tools ♦ Provide instruction in safe use of hand tools	Students must NOT operate powered tools ♦ Use hand tools carefully, according to instructions
Working at heights	Falls from heights, potential for fatality or serious injury	Students must NOT work at heights where there is any risk of a fall	Students must NOT work at heights where there is any risk of a fall
Mobile plant including mobile platform	Falls from heights, potential for fatality or serious injury	Students must NOT operate mobile plant	Students must NOT operate mobile plant
Electricity	Electrocution or serious injury	Students must NOT undertake any task which may place them at risk from electrical sources	Students must NOT undertake any task which may place them at risk from electrical sources
Dangerous goods (e.g. natural gas)	Contact with dangerous goods can result in fatality or serious injury Explosion can result in fatality or serious physical injury	♦ Assess work area before commencing work ♦ Establish and communicate First Aid and emergency procedures ♦ Provide First Aid kit	♦ Know the dangerous goods and hazardous substances you could be exposed to ♦ If you are in any doubt, seek advice before commencing a task
Manual handling (bending, reaching, stretching, pulling, lifting, repetitive motions, awkward posture)	Musculoskeletal disorders	♦ Provide mechanical aids where practicable ♦ Provide training in safe manual handling techniques	♦ Use mechanical aids provided ♦ Seek help when you think a team lift is required ♦ Exercise: warm up/stretch before starting work, and cool down/stretch at end of the shift or working day
Noise	Long-term exposure to excessive noise can lead to hearing loss	♦ Maintain powered tools to reduce noise ♦ Limit exposure to excessive noise ♦ Provide appropriate personal protective equipment (PPE)	♦ Use PPE (hearing protective device such as earmuffs or earplugs) provided
Hot weather conditions	Heat rashes, heat cramps, heat stress, dehydration, sunburn	♦ Provide regular rest breaks ♦ Re-schedule work if extreme weather conditions present risk	♦ Dress appropriately for the conditions ♦ Take scheduled breaks
Sexual harassment, work place bullying	Emotional stress, fear and anxiety, physical illness	♦ Establish work place policy ♦ Provide staff briefings or training	♦ Report any concerns immediately