

5 STEP HAZARD MANAGEMENT PROCESS

Step 1	Planning or pre start check	<p>Consider the sequence of steps involved in carrying out the task from start to finish.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Does the activity expose the worker to any hazards which could result in a <u>significant injury or illness</u> (e.g. medical treatment, hospitalisation)? (Refer to the list of examples on this Appendix, pages 2 - 5 as a guide) <input type="checkbox"/> Does the activity involve the use of an item of plant/equipment or chemical in a different way to how the manufacturer intended? <input type="checkbox"/> Does the task involve the use of a Hazardous chemical or nanoparticles? <input type="checkbox"/> Is the activity an event (e.g. function such as an open day) or require the co-ordination of a number of tasks which could impact on the safety of the worker(s) completing the task or others in the vicinity? <input type="checkbox"/> Is the activity to be conducted in a different workplace/environment to normal and modification to the workplace or process is required? <input type="checkbox"/> Are there any concerns/uncertainty that the activity (e.g. tools and equipment, chemicals, the work environment, the physical/mental/emotional demands of the tasks) may place a worker at risk of injury/illness? 	
		If yes to any of the above, do not start the activity until you reach step 5	If no to all of the above
		Is there an existing Risk assessment (RA) for the activity on file?	
		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; padding: 5px;"> <p style="text-align: center;">No Risk assessment held</p> <p>Select and complete the appropriate RA template</p> <p>Single task (Appendix B1); or Multiple tasks (Appendix B2); or Short Form (Appendix B3)</p> </div> <div style="width: 45%; padding: 5px;"> <p style="text-align: center;">Yes – A Risk assessment held</p> <p>Check whether the hazards and control measures are correct for your activity.</p> </div> </div>	
		<div style="display: flex; justify-content: space-around;"> <div style="width: 45%; padding: 5px; text-align: center;"> <p>If no</p> <p>Go to step 2 and complete a new Risk assessment (Appendix B1, B2 or B3)</p> </div> <div style="width: 45%; padding: 5px; text-align: center;"> <p>If Yes</p> <p>Go to step 5</p> </div> </div>	<p style="text-align: center;">No formal Risk assessment is required</p> <p>It is an activity which is considered low risk.</p> <p>There is no expectation that an injury/illness will occur. If there was an injury/illness, treatment would be very minor/negligible (e.g. first aid treatment requiring a band aid).</p> <p>Complete the activity safely and in accordance with:</p> <ul style="list-style-type: none"> <input type="checkbox"/> the manufacturer's instruction; and/or <input type="checkbox"/> Safety Data Sheet; and/or <input type="checkbox"/> any information/instruction/training provided. <p>Seek assistance from your Supervisor/Person in control of the area/activity if you are unsure of the method of work or have any concerns.</p>
Step 2	Identify the hazards	<ul style="list-style-type: none"> <input type="checkbox"/> Identify the hazards that could cause harm (injury/illness) through immediate or long term exposure and how/when the worker is exposed to the hazard(s) during the activity. An activity may have many different hazards. (Refer to pages 2 – 5 of this Appendix for guidance). 	
Step 3	Assess the level of risk	<p>Based on the nature of the activity and the hazard(s) identified</p> <ul style="list-style-type: none"> <input type="checkbox"/> Determine the likelihood and consequences of an injury/illness using the Risk assessment table on the RA template. 	
Step 4	Control the risk	<ul style="list-style-type: none"> <input type="checkbox"/> Determine the controls to ensure the highest level that is reasonably practicable under the Hierarchy of controls (see page 6 of this Appendix) are selected, to either eliminate/minimise the risk. <p>In consultation with your Supervisor/Person in control of the area/activity:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Ensure that specific control measures that are mandated are documented on the RA and that these have a direct correlation with the hazard they are controlling. <input type="checkbox"/> Obtain the relevant authorisations to complete the activity, based on the level of residual risk (i.e. the remaining risk after controls are in place). 	
Step 5	Complete the activities safely and in accordance with the Risk assessment. Ensure your own safety and the safety of others for the duration of the activity. Review the Risk assessment if the conditions change e.g. new hazards are identified.		

HSW Handbook	Hazard Management	Effective Date:	1 December 2020	Version 4.0
Authorised by	Chief Operating Officer (University Operations)	Review Date:	1 December 2023	Page 1 of 6
Warning	This process is uncontrolled when printed. The current version of this document is available on the HSW Website.			

HAZARD IDENTIFICATION (EXAMPLES)	If the hazard is applicable to the activity, then transfer the hazard and how the worker could be exposed onto your Risk assessment template
HAZARD IDENTIFICATION: Stop and think. What could cause harm?	
Identify each hazard that is part of this work process	Examples of how/when the worker could be exposed to the hazard (e.g. what is the route of exposure?)
<p>Hazardous chemical</p> <p>Use of:</p> <ul style="list-style-type: none"> <input type="checkbox"/> a corrosive <input type="checkbox"/> an explosive <input type="checkbox"/> an acid <input type="checkbox"/> a flammable liquid/solid/gas <input type="checkbox"/> a toxic poison <p>Including hazardous waste</p> <p>Where practical name the category or name of chemical on the Risk assessment.</p> <p>The SDS for the chemical will provide additional information.</p> <p>Use of a Nanomaterial</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Could the worker be exposed to potential harm via inhalation? <input type="checkbox"/> Could the worker be exposed to potential harm via skin absorption? <input type="checkbox"/> Could the worker be exposed to potential harm via ingestion? <input type="checkbox"/> Could the chemical splash into the worker's eyes? <input type="checkbox"/> Could the worker be required to work with the chemical for long periods of time? <input type="checkbox"/> Is the chemical a carcinogen, mutagen, reproductive toxicant or sensitisation agent? <input type="checkbox"/> Could an accidental spill place the worker and others in the vicinity at risk? <input type="checkbox"/> Is the chemical being used in an enclosed space? <input type="checkbox"/> Could other workers make contact with the chemical or contaminated surfaces (e.g. during cleaning, contractors entering the space)? <input type="checkbox"/> Does the chemical require decanting, spraying, heating? <input type="checkbox"/> Could the chemical cause a fire and explosion if there is a source of ignition? <input type="checkbox"/> Could exposure to the chemical require an immediate first aid response (e.g. antidote, emergency shower)? <input type="checkbox"/> Is there the potential for vapour accumulation? <input type="checkbox"/> Is the chemical an asphyxiant? <input type="checkbox"/> Do the storage containers need to have impact protection in place? <input type="checkbox"/> Are there specific transfer/transport arrangements required for the chemical? <input type="checkbox"/> Are there specific storage arrangements required for the chemical? <p><input type="checkbox"/> Could the worker be exposed to nano-sized particles that could enter the body through inhalation, ingestion or contact through the skin?</p> <p>Refer to the Chemical Safety Management Handbook chapter and FAQ Nanomaterials for further information on the risk assessment process.</p>
<p>Hazardous Plant/Equipment ("Plant") (During operation)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Rotating/moving parts (e.g. shafts, pulleys, sprockets, gears, belt conveyors) <input type="checkbox"/> Hard surfaces moving together <input type="checkbox"/> Scissor or shear action <input type="checkbox"/> Eject objects (parts, components, waste) <input type="checkbox"/> Sharp edge – moving/stationary <input type="checkbox"/> Ignition sources (flame or spark) <input type="checkbox"/> Compressed air or high pressure fluid <input type="checkbox"/> Electricity <input type="checkbox"/> Explosive or flammable atmosphere <input type="checkbox"/> Ergonomic (e.g. equipment design/layout) <input type="checkbox"/> Mobile plant/equipment (e.g. forklifts, pallet jacks, earthmoving equipment) <input type="checkbox"/> Heat (radiated or conducted) or steam <input type="checkbox"/> Harmful noise <input type="checkbox"/> Poorly positioned control levers or buttons 	<p>Could the plant/equipment:</p> <ul style="list-style-type: none"> <input type="checkbox"/> entangle a person's hair, clothing, gloves, jewellery, in moving parts? <input type="checkbox"/> crush a person (e.g. material fall off the plant, uncontrolled/unexpected movement of the plant)? <input type="checkbox"/> stab, puncture or strike e.g. due to coming into contact with sharp or flying objects? <input type="checkbox"/> shear a body part (e.g. between two parts of the plant/between the plant and a work structure)? <input type="checkbox"/> expose the worker to live electrical conductors (e.g. proximity, overload of electrical circuits)? <input type="checkbox"/> expose the worker to gases/vapours/liquids/dusts/other substances triggered by the operation? <input type="checkbox"/> explode or implode, or reach high temperatures? <input type="checkbox"/> exceed safe noise levels (e.g. more than 85 decibels over a normal shift or a single noise level above 140 decibels) due to very loud impact or explosive sounds? <input type="checkbox"/> require the worker to adopt poor ergonomic posture/repeat the same movements? (see Hazardous Manual Activity)? <input type="checkbox"/> overturn, collide with another person or thing (e.g. moving powered plant)? <input type="checkbox"/> malfunction (e.g. is an industrial robot/remotely/automatically energised plant at the workplace)? <input type="checkbox"/> expose the worker to hazardous levels of vibration (to whole or part of body)? <input type="checkbox"/> cause a significant burn <input type="checkbox"/> require energy sources to be isolated e.g. for cleaning, maintenance? <input type="checkbox"/> require the operator to climb onto the equipment during operation? <input type="checkbox"/> be operated in a confined space? (See FAQ Confined space for additional guidance) <input type="checkbox"/> controls be inadvertently bumped or knocked? <input type="checkbox"/> require extension leads which present electrical hazards if damaged or wet? <input type="checkbox"/> require the operator to make adjustments to the mechanism of machinery while the machine is in motion/operation? <input type="checkbox"/> require the use of Hazardous chemicals during operation, cleaning, maintenance? (see section above)

HSW Handbook	Hazard Management	Effective Date:	1 December 2020	Version 4.0
Authorised by	Chief Operating Officer (University Operations)	Review Date:	1 December 2023	Page 2 of 6
Warning	This process is uncontrolled when printed. The current version of this document is available on the HSW Website.			

HAZARD IDENTIFICATION (EXAMPLES)	If the hazard is applicable to the activity, then transfer the hazard and how the worker could be exposed onto your Risk assessment template
HAZARD IDENTIFICATION: Stop and think. What could cause harm?	
Identify each hazard that is part of this work process	Examples of how/when the worker could be exposed to the hazard (e.g. what is the route of exposure?)
<p>Hazardous manual activity</p> <p>The task requires a person to lift, lower, push, pull, carry or otherwise move, hold or restrain any person, animal or thing involving one or more of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> repetitive or sustained force <input type="checkbox"/> high or sudden force <input type="checkbox"/> repetitive movement <input type="checkbox"/> sustained or awkward posture <input type="checkbox"/> exposure to vibration 	<p>Could the activity require:</p> <ul style="list-style-type: none"> <input type="checkbox"/> carrying objects over long distances or a load that is unbalanced/unstable/unpredictable? <input type="checkbox"/> lifting/lowering/carrying an object that cannot be positioned close to the body? <input type="checkbox"/> the use of a tool requiring continuous finger/pinch/open-handed grip or tight squeeze grip? <input type="checkbox"/> the handling of frightened/resistant/unpredictable animals or a person? <input type="checkbox"/> repetitive use of the same muscle groups (e.g. computer tasks, bending/twisting)? <input type="checkbox"/> repeated reaching for an object (e.g. beyond normal reach, whilst sitting, with arms overhead)? <input type="checkbox"/> transfer of an awkward/heavy item from one level to another (e.g. stairs, from the floor)? <input type="checkbox"/> the worker to complete the task where the workplace environment poses a risk? <input type="checkbox"/> a level of skill/experience or more than one worker due to the nature of the load?
<p>Heavy lifting using mechanical lifting equipment (e.g. a hoist, a crane, a power shovel, a telescopic/telehandler, fork lift truck, elevating work platforms, passenger lifts/hoists)</p> <p><u>Note</u> If engaging a Contractor for this work, refer to the <u>Contractor Safety Management</u> HSW Handbook chapter which includes the requirements for Permission to work.</p>	<p>Could the:</p> <ul style="list-style-type: none"> <input type="checkbox"/> activity crush another person due to the impact of moving objects or loads falling because they are not properly slinged or the wrong type of sling is used? <input type="checkbox"/> plant/equipment strike a pedestrian? <input type="checkbox"/> plant/equipment collapse or fall over due to improper fixation or strong wind, unsafe loads, loads exceeding the safe weight limits? <input type="checkbox"/> plant/equipment or the load trap/crush a worker during the lift/transfer? <input type="checkbox"/> the operator fall from a height e.g. fall from the lifting platform or when the platform moves? <input type="checkbox"/> worker be exposed to a hazard when positioning the load? <input type="checkbox"/> work environment interfere with communication between workers or concentration? <input type="checkbox"/> load come into contact with overhead electrical cables, other structures or other people? <input type="checkbox"/> plant/equipment not be fit for purpose? <input type="checkbox"/> operator not have the necessary skills qualifications to undertake the tasks?
<p>Radiation (Exposure to)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Ionising radiation <input type="checkbox"/> Sealed sources <input type="checkbox"/> Un-sealed sources 	<ul style="list-style-type: none"> <input type="checkbox"/> Could the worker be exposed to high powered lasers, x-ray machines and transilluminators? <input type="checkbox"/> Could the worker be exposed to potential harm by breathing in radioactive dust? <input type="checkbox"/> Could the worker absorb the radiation through their skin? <input type="checkbox"/> Is the worker required to work with materials containing radioactive iodine? <input type="checkbox"/> Could the worker be exposed to non-solar sources of radiation such as arc welding?
<p>Biological hazards (Exposure to)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Blood, tissues, saliva, mucous, urine and faeces, sewage <input type="checkbox"/> Toxins, poisons, venom <input type="checkbox"/> Spores, fungi and bio-active substances <input type="checkbox"/> Biological vectors/transmitters of disease <input type="checkbox"/> Communicable diseases <input type="checkbox"/> Animal diseases and infections that have the potential to infect humans (e.g. Q-fever, Avian flu, Hendra virus) <input type="checkbox"/> Harmful plants <input type="checkbox"/> Animal and bird droppings 	<ul style="list-style-type: none"> <input type="checkbox"/> Could micro-organisms enter the body through the respiratory system? <input type="checkbox"/> Could there be transmission through contact with body fluids of the infected person/animal? <input type="checkbox"/> Could the worker come into contact with contaminated objects? <input type="checkbox"/> Is the worker in contact with laboratory cell cultures, soil, plant materials, organic dusts, wastewater or sewerage? <input type="checkbox"/> Is the worker working with animals? <input type="checkbox"/> Could the worker be exposed to a venomous bite or sting? <input type="checkbox"/> Is the worker working in a hospital, dental practice, health care setting (including home healthcare)?
<p>Psychosocial/stress/duress (Exposure to)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Personal threat <input type="checkbox"/> Fatigue 	<ul style="list-style-type: none"> <input type="checkbox"/> Could the worker be exposed to trauma? <input type="checkbox"/> Could the worker be exposed to occupational violence, aggression, abuse or assault? <input type="checkbox"/> Could the worker be exposed to constant work demands (e.g. heavy workload, physical and/or mental exertion)? <input type="checkbox"/> Is the worker, working alone for extended periods or in remote locations? <input type="checkbox"/> Is the worker meeting with clients that are unfamiliar and/or in an unfamiliar environment when on their own?

HSW Handbook	Hazard Management	Effective Date:	1 December 2020	Version 4.0
Authorised by	Chief Operating Officer (University Operations)	Review Date:	1 December 2023	Page 3 of 6
Warning	This process is uncontrolled when printed. The current version of this document is available on the HSW Website.			

HAZARD IDENTIFICATION (EXAMPLES)	If the hazard is applicable to the activity, then transfer the hazard and how the worker could be exposed onto your Risk assessment template
HAZARD IDENTIFICATION: Stop and think. What could cause harm?	
Identify each hazard that is part of this work process	Examples of how/when the worker could be exposed to the hazard (e.g. what is the route of exposure?)
<p>Fall from one level to another / Falling objects</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Could the worker fall from a cliff? <input type="checkbox"/> Could the worker fall from a ladder, work platform or item of plant/equipment? <input type="checkbox"/> Could the worker fall from a roof or through a structure, fragile surface? <input type="checkbox"/> Could the worker fall into an unguarded hole in the floor such as hatchway, inspection hole, pit, tank or machinery? <input type="checkbox"/> Could the worker be hit by a falling object?
<p>High risk travel (Travel to a high risk destination)</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Is the worker travelling to a DFAT level 3 destination? i.e. Reconsider your need to travel (This level means that there are serious and potentially life threatening risks that make the destination unsafe for tourism and unsuitable for most travellers. This could be due to an ongoing threat of terrorism or kidnapping, frequent incidents of violent crime, ongoing civil unrest, widespread disease, or other safety risks including a natural disaster.) <input type="checkbox"/> Is the worker travelling to a DFAT level 4 destination? i.e. Do not travel (This level means that the security situation is extremely dangerous. This may be due to a high threat of terrorist attack or kidnapping, ongoing armed conflict, violent social unrest, or critical levels of violent crime. It is often a combination of these.) <p>The DFAT Smart traveller website provides additional information. The Travel & Entertainment Policy & Procedures sets out the approval process for travel to a high/very high risk destination.</p>
<p>Operation of a drone (Regardless of the size or if operated indoors or outdoors)</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Is the worker operating a drone for work purposes? <p>Refer to the University website - The Unmanned Research Aircraft Facility (URAF) for all compliance requirements including risk assessments.</p> <p>Strict protocols apply to all University activities requiring the operation of a drone to meet the requirements for Remotely Piloted Aircraft Systems under the Civil Aviation Act and Regulations. All operations regardless of drone type or activity must be approved by the University's Chief Remote Pilot. Non-compliance by any University staff or students could lead to the cancellation of our licence which would impact on all University pilots and mean that all University drones would be grounded. No insurance cover will apply.</p>
<p>Electrical</p> <ul style="list-style-type: none"> <input type="checkbox"/> Electric shock (working on or near power lines or live power) <input type="checkbox"/> Hidden wiring/cables (wall or ground penetration) 	<ul style="list-style-type: none"> <input type="checkbox"/> Could the worker be penetrating a wall or ground and there is the potential for contact with electrical wiring/cables? <input type="checkbox"/> Could the worker be operating electrical equipment near water (beyond what the manufacturer intended) or outdoors? <input type="checkbox"/> Could the equipment be chewed on by animals? <input type="checkbox"/> Is the electrical cord subject to crushing or crimping? <input type="checkbox"/> Could the equipment be in direct contact with dust, vibration, heat, or corrosive chemicals that could cause damage to the item? <input type="checkbox"/> Could the equipment be immersed in water or in an environment where there is condensation on the floors or walls?
<p>Boating and diving activity</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Could the worker be at risk of drowning? <input type="checkbox"/> Could the worker be exposed to weather extremes? <input type="checkbox"/> Could the worker require emergency medical treatment during the activity? <input type="checkbox"/> Could there be communication issues (e.g. by virtue of location or isolation) <input type="checkbox"/> Could equipment failure harm the worker? <input type="checkbox"/> Could the worker come into contact with dangerous marine animals?
<p>Noise and sound (Produced during an activity)</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Could the worker be exposed to noise levels approaching/greater than safe exposure standards (including music) >85dB(A) or peak level approaching/greater than 135dB(C) for any period of time?

HSW Handbook	Hazard Management	Effective Date:	1 December 2020	Version 4.0
Authorised by	Chief Operating Officer (University Operations)	Review Date:	1 December 2023	Page 4 of 6
Warning	This process is uncontrolled when printed. The current version of this document is available on the HSW Website.			

HAZARD IDENTIFICATION (EXAMPLES)	If the hazard is applicable to the activity, then transfer the hazard and how the worker could be exposed onto your Risk assessment template
HAZARD IDENTIFICATION: Stop and think. What could cause harm?	
Identify each hazard that is part of this work process	Examples of how/when the worker could be exposed to the hazard (e.g. what is the route of exposure?)
<p>Confined space entry</p> <ul style="list-style-type: none"> <input type="checkbox"/> Poor air quality/insufficient oxygen <input type="checkbox"/> Chemical exposure <input type="checkbox"/> Extreme temperature <input type="checkbox"/> Flooding <input type="checkbox"/> Suffocation, crushing, engulfment 	<ul style="list-style-type: none"> <input type="checkbox"/> Could the worker be required to enter into an enclosed or partially enclosed space that is not designed or intended primarily to be occupied by a person (e.g. a pit, tank, vat, pipe, duct, silo, container)? <p>A specific Permit to Work is required to address the hazards. Refer to the HSW Handbook Confined Space FAQ</p>
<p>Operation of a Firearm</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Could the worker be required to operate a firearm or be part of a work related activity where someone is operating a firearm? <p>Specific requirements and licences are required to meeting the requirements of the Firearms Act and Regulations. Refer to the HSW Handbook chapter Firearms Safety Management for information.</p>
<p>Hot work (e.g. welding)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Burns, fire and heat <input type="checkbox"/> Dust, smoke and fumes <input type="checkbox"/> Light radiation <input type="checkbox"/> Asphyxiation 	<ul style="list-style-type: none"> <input type="checkbox"/> Is the worker required to do welding, grinding, thermal or oxygen cutting or heating or other related heat producing or spark-producing operations? <p>A hot-work permit is required for this activity. Refer to the HSW Handbook Hot work FAQ for further information on hazard management.</p>
<p>Other</p> <ul style="list-style-type: none"> <input type="checkbox"/> Off campus activity Remote or isolated work <input type="checkbox"/> Temperature extremes (hot or cold) 	<ul style="list-style-type: none"> <input type="checkbox"/> Is the worker required to work in a remote location that would require specific arrangements to be in place for rescue and/or medical assistance? (Refer to the Off campus activities FAQ which includes a risk assessment decision tool and a specific Risk assessment template for "Off campus activities"/Field Work.) <input type="checkbox"/> Is the worker required to work in a location where they could suffer hyperthermia (i.e. body is overheated), or work in a cold room?

DESCRIPTORS FOR ASSESSING THE LEVEL OF RISK

Likelihood Table

CATEGORY	DESCRIPTION
Almost certain	There is an expectation that an event/incident will occur.
Likely	There is an expectation that an event/incident could occur but not certain to occur.
Possible	This expectation lies somewhere in the midpoint between "could" and "improbable". May happen occasionally.
Unlikely	There is an expectation that an event/incident is doubtful or improbable to occur.
Rare	There is no expectation that the event/incident will occur.

Consequences Table

CATEGORY	DESCRIPTION
Severe	Injury resulting in death, permanent incapacity.
Major	Injury requiring extensive medical treatment (e.g. hospitalisation), or activities could result in a Notifiable occurrence.
Moderate	Injury requires formal medical treatment (e.g. hospital outpatient/doctors visit) Activities could result in an Improvement/Prohibition Notice.
Minor	Injury requires first aid treatment.
Negligible	Injury requires minor first aid (e.g. bandaid), or result in short term discomfort (e.g. bruise, headache, muscular aches), no medical treatment.

Risk matrix

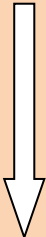

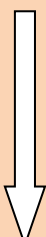

Likelihood	Consequences				
	Negligible	Minor	Moderate	Major	Severe
Almost Certain	Medium	High	Very High	Very High	Very High
Likely	Medium	Medium	High	Very High	Very High
Possible	Low	Medium	High	High	Very High
Unlikely	Low	Low	Medium	Medium	High
Rare	Low	Low	Low	Medium	Medium

HSW Handbook	Hazard Management	Effective Date:	1 December 2020	Version 4.0
Authorised by	Chief Operating Officer (University Operations)	Review Date:	1 December 2023	Page 5 of 6
Warning	This process is uncontrolled when printed. The current version of this document is available on the HSW Website.			

HAZARD MANAGEMENT – HIERARCHY OF RISK CONTROL

The process to eliminate, or where this is not possible, manage the risks to as low a level as is reasonably practicable. They are listed below in order of most to least effective and are required to be recorded on your Risk assessment. A combination of the controls set out may be used to minimise risks if a single control is not sufficient for the purpose.

Refer to any relevant [Approved Codes of Practice](#) or Australian Standard, Safety Data Sheet or Handbook chapter(s) which outline the controls which are to be followed, unless there is another solution which achieves the same or a better standard of health and safety.

Hierarchy of control		Examples of control measures		
HIGHEST	Level 1	Elimination	<ul style="list-style-type: none"> Not introducing the hazard into the workplace. Designing out the hazards before they are introduced. Removing the hazard completely. Not conducting the activity. 	MOST
↓		↓		
	Level 2 Where it is not reasonably practicable to eliminate the hazards and associated risks.	Substitution	<ul style="list-style-type: none"> Replacing or substituting the hazard with something safer. Record what you have substituted so it is clear to the worker. 	
		Isolation	<ul style="list-style-type: none"> Isolating the hazard from the people by distance or using barriers. Record what isolation controls need to be in place so it is clear to the worker. 	
		Engineering	<ul style="list-style-type: none"> Installing/using a control measure of a physical nature, including a mechanical device or process (e.g. trolleys, hoists, guards, residual current devices, fume-hoods, extraction/ventilation systems, RCD protection). Record what specific engineering controls are in place so it is clear to the worker. 	
↓		↓		
LEVEL OF HEALTH AND SAFETY PROTECTION 	Level 3 These control measures do not control the hazard at the source. They rely on human behaviour and supervision, and used on their own tend to be the least effective in minimising risks. Exposure is only limited if the worker wears and uses the PPE correctly.	Administrative	<ul style="list-style-type: none"> Documenting a Safe operating procedure (SOP) and include in the induction program for all staff required to perform the activity. Developing a proficiency based training program if required by the risk assessment (see definitions) (Workers may be trained against the SOP Appendix C or other assessment criteria). Training workers to use control measures implemented when carrying out the activity. Introducing a second operator. Providing signage or warning labels. Restricting access. Maintenance and testing programs. Changing the work organisation (e.g. relocating equipment or items, rotating workers between different activities). (Record on the Risk assessment the specific Admin controls that are in place so they are clear to the worker.)	RELIABILITY OF CONTROL MEASURES 
		Personal Protective Equipment (PPE)	Requiring the use of one or more of the following: <ul style="list-style-type: none"> ear protection (ear muffs); respirators, face masks; hard hats/helmet; gloves, aprons; eye protection (glasses, shield, visor); and non-slip footwear, appropriate clothing. (Record on the Risk assessment the specific PPE to be worn so it is clear to the worker.)	
LOWEST				LEAST

HSW Handbook	Hazard Management	Effective Date:	1 December 2020	Version 4.0
Authorised by	Chief Operating Officer (University Operations)	Review Date:	1 December 2023	Page 6 of 6
Warning	This process is uncontrolled when printed. The current version of this document is available on the HSW Website.			