

For additional information refer to HS	8329 Risk Management Proc	<u>cedure</u>				
Faculty/Division: Faculty of Engineering			School/Unit: School	of Mechanical and Manufacturing	Engineering	
Document number: G8-RM-01	Initial Issue date 11/07/2024	Current version V1.0		Current Version Issue date 11/07/24	Next review of 12/07/24	date
Risk management name	MECH4100 Group 8 Asse	embly of Stirling Engine				
Form completed by	Rachel Hansen			Signature: R.H.		Date 11/07/24
Responsible supervisor/authorising officer	Dr. Irene Renaud-Asse	mat, Senior Lecturer		Signature:		Date
Identify the activity and the loc	ation of the activity:		This may include	ay be at risk from the active fellow workers, visitors, count the risk controls needed a	ntractors and the	
Description of activity			Persons at risk			
Description of activity A group of 7 MECH4100 student 2-hour sessions to manufacture persons will be run concurrently MECH4100 groups. The 3 session containing a maximum of 1 sessions	parts for, and finally asser with the assembly sessions will run across a total	mble, a Stirling Engine. The ons of max. 8 other	Group 8 members of surr	rs, UNSW Technical Staff a ounding MECH4100 group		urse conveners,

How they were consulted on the risk



Description of location

Assembly sessions are completed in Lab 214, Willis Annexe, Floor L2. This is a mechanical workshop.

Group 8 Members: Briefings for the assembly sessions in assignment specification documents, course lectures, and during meetings with UNSW technical staff. All members have read the following Risk management form.

UNSW Technical Staff and MECH4100 course conveners: Have been provided with the following Risk management form.

Members of surrounding MECH4100 groups: Briefings for the assembly sessions in assignment specification documents, course lectures, and during meetings with UNSW technical staff. Each group has produced, and will have read, their own Risk Management Form for assembly sessions.

List legislation, standards, codes of practice, manufacturer's guidance etc used to determine control measures necessary

Work Health and Safety Act 2011

Work Health and Safety Regulation 2017



- An activity may be divided into tasks. For each task identify the hazards and associated risks. Also list the possible scenarios which could sooner or later cause harm.
 Determine controls necessary based on legislation, codes of practice, Australian standards, manufacturer's instructions, safety data sheets etc.

- List existing risk controls and any additional controls that need to be implemented
 Rate the risk once all controls are in place using the risk rating matrix (below and in HS329 Risk Management Procedure)

SHADED GREY AREAS

If you need to determine whether it's reasonably practicable to implement a control based on the risk, complete the shaded grey columns

Feel free to resize the boxes to suit your situation/the amount of text you need to use

					F	Risk Ratir	ng	Cost of	
Task / Scenario	Hazard	Associated harm	Existing controls	Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
Cutting parts with the hacksaw	Sharp blade on hacksaw Sharp edges on cut pieces Hacksaw or parts may be dropped Dust particles from cut parts Friction from cutting may heat the parts	 Skin lacerations from hacksaw blade or sharp edges Physical injury from falling hacksaw or parts Eye and lung irritation from dust particles Burns to the skin from hot parts 	 Sturdy, enclosed shoes must be worn Safety glasses must be worn Students are instructed on proper use of the hacksaw and safe manufacturing practices prior to assembly sessions Lab technicians are present during assembly sessions to ensure safe manufacturing practices, and can provide assistance with hacksaw use Lab is well ventilated Workbench must remain organised and un-cluttered 	 Respiratory masks can be worn while cutting parts with the hacksaw Cut parts will be handled with care, and stored securely until assembly 	3	D	M		



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		Hazard Associated harm			Risk Rating		ng	Cost of	
Task / Scenario	Hazard			Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
			 Before handling the hacksaw, the area must be clear of traffic Before cutting, all parts must be clamped securely Whilst handling the hacksaw, ensure body and fingers are not in the cutting path 						
Filing sharp edges	 Sharp edges on prefiled pieces Rough surface of the file File or parts may be dropped Dust particles from filed parts Friction from filing may heat the parts 	 Skin lacerations from sharp edges Skin abrasions from the file surface Physical injury from falling file or parts Eye and lung irritation from dust particles 	 Sturdy, enclosed shoes must be worn Safety glasses must be worn Students are instructed on proper use of the file and safe manufacturing practices prior to assembly sessions Lab technicians are present during assembly sessions to ensure safe 	Respiratory masks can be worn while filing parts Filed parts will be handled with care, and stored securely until assembly	3	D	M		



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		Associated harm	harm Existing controls		Risk Rating			Cost of	
Task / Scenario	Hazard			Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
		Burns to the skin from hot parts	manufacturing practices, and can provide assistance with filing Lab is well ventilated Workbench must remain organised and un-cluttered Whilst handling the file, ensure hands are not in the filing path						
Drilling and reaming parts	 Drill bit is sharp Fast moving parts during operation Loose hair or clothing near the moving parts Friction from machining may heat the drill bit and parts Dust particles from the drilled/reamed parts 	 Skin lacerations from the drill bit Hair or loose clothing may become caught in moving parts and cause physical injury Eye and lung irritation from dust particles 	Sturdy, enclosed shoes must be worn Safety glasses must be worn Loose hair and clothing must be tightly secured Students are instructed on proper use of the drill press and safe manufacturing practices prior to assembly sessions	 Respiratory masks can be worn while drilling and reaming parts Drilled parts will be handled with care, and stored securely until assembly 	4	E	М		



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Task / Scenario	Hazard		Existing controls	Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
	Flying fragments	Eye injuries from flying fragments Burns to the skin from hot drill bit or parts	 Lab technicians are present during assembly sessions to ensure safe manufacturing practices, and can provide assistance with drilling and reaming Lab is well ventilated Drill press has a guard to protect users from the drill bit, moving parts and flying fragments Whilst machining, ensure body parts are behind the guard An appropriate speed must be chosen for the drilling/reaming job 						
Walking around the lab	Trip hazards around the lab (e.g. bags left on the ground, electrical chords)	Slip/trip/fall injury	Ensure bags/other personal items are kept under benches	NA	1	E	L		



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Task / Scenario	Hazard		Existing controls	Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
			 When moving/placing electrical chords, ensure they are clearly visible and are not crossing over walking paths Those inside the lab must ensure that they, and those around them, are aware of their surroundings and use deliberate, careful movements when moving throughout the lab 						
Handling the glass cylinders	Glass may break/shatter, followed by the release of glass fragments	 Skin lacerations from broken glass and flying fragments Cuts to the eye from flying fragments 	 Sturdy, enclosed shoes must be worn Safety glasses must be worn Glass cylinders should be handled with care, and with the minimum force required Lab technicians are present during assembly sessions 	Glass cylinders will be stored securely and away from edges	4	D	М		



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			Ri		Risk Ratir	ng	Cost of		
Task / Scenario	Hazard	Associated harm	Existing controls	Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
			to ensure safe manufacturing practices, and can provide assistance with the handling of glass cylinders						
Handling the acrylic parts	Acrylic may break/shatter, followed by the release of fragments Sharp edges on parts	 Skin lacerations from sharp edges, broken acrylic and flying fragments Cuts to the eye from flying fragments 	Sturdy, enclosed shoes must be worn Safety glasses must be worn Acrylic parts should be handled with care, and with the minimum force required Sharp edges are filed in the manufacturing stage Lab technicians are present during assembly sessions to ensure safe manufacturing practices, and can provide assistance with the handling of acrylic parts	Acrylic parts will be stored securely and away from edges	2	Ε	L		



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Task / Hazard Scenario					Risk Rating		ng	Cost of	
	Hazard		Existing controls	Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
Handling the metal parts	Sharp edges on parts	Skin lacerations from sharp edges	 Sturdy, enclosed shoes must be worn Safety glasses must be worn Sharp edges are deburred and filed in the manufacturing stage Lab technicians are present during assembly sessions to ensure safe manufacturing practices, and can provide assistance with the handling of metal parts 	Metal parts will be stored securely and away from edges	2	D	L		
Adhering metal parts with Loctite641	 Contact to skin causes irritation Contact to eyes causes sight damage Flammable material 	 Irritation to the skin from contact with skin Irritation to the respiratory system from 	 Sturdy, enclosed shoes must be worn Safety glasses must be worn Protective gloves must be worn when handling Loctite641 	NA	3	D	М		



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Task / Scenario	Hazard	Associated harm	Existing controls	Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
		inhalation of fumes • Damage to eyes from contact with eyes • Burns to the skin if material becomes ignited	 Respiratory mask must be worn when handling Loctite641 Wash hands immediately after use Use in isolation from any potential ignition sources Lab technicians are present during assembly sessions to ensure safe manufacturing practices, and can provide assistance with Loctite641 use 						
Disassembling metal parts connected with Loctite641 (If necessary)	 Parts that are connected using Loctite641 must be heated to 250°C to enable disassembly Blowtorch flame 	Third degree burns to the skin from contact with blowtorch flame and hot metal parts	 Sturdy, enclosed shoes must be worn Safety glasses must be worn Lab technicians and MECH4100 course conveners are present 	A "hot zone" should be implemented, where all hot components are placed and left to cool before further handling	4	D	M		



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		Hazard Associated harm				Risk Rating		Cost of	
Task / Scenario	Hazard		Existing controls	Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
			during prototype testing sessions to ensure safety Heat resistant gloves must be worn when handling the blow torch and any heated parts Hot parts must be securely stored in isolation, to be left to cool, before being handled A safe distance must be kept from the flame at all times.						
Assembling and securing all parts into the Stirling engine configuration	 Engine components falling off the workbench Skin pinches when fastening components 	 Physical injury (i.e. bruising) from the impact of falling parts Skin lacerations from pinches by the fasteners 	 Sturdy, enclosed shoes must be worn Safety glasses must be worn Lab technicians are present during assembly sessions to ensure safe manufacturing practices, 	NA	1	D	L		



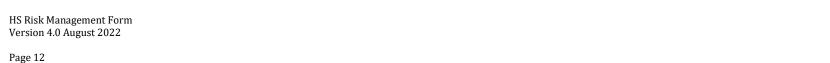
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Task / Scenario	Hazard	Associated harm	Existing controls	Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
			and can provide assistance with assembly • Ensure workspace is uncluttered and organised when assembling the engine • Ensure appropriate clearance space is allocated to allow the insertion and fastening of each part into the engine configuration • Ensure appropriate tools are used when fastening components (e.g. Allen- keys)						
Lighting the tealight candle	Candle flame Components of the	Second degree burns to the skin	Lab technicians and MECH4100 course	 A "hot zone" should be implemented, 	3	D	М		
toungin ouridie	Components of the engine may be heated by the candle flame	from contact with the candle flame	conveners are present during prototype testing sessions to ensure safety	where all hot components are placed and left to					



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Task / Scenario	Hazard	Associated harm	Existing controls	Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
		First degree burns to the skin from contact with hot engine components	 Sturdy, enclosed shoes must be worn Safety glasses must be worn A safe distance must be kept from the candle flame at all times Parts that have been directly exposed to a flame will be allowed to cool before handling 	cool before further handling					
Potential use of blowtorch to heat the hot cylinder	Blowtorch flame	Third degree burns to the skin from contact with the blowtorch flame	Sturdy, enclosed shoes must be worn Safety glasses must be worn Lab technicians and MECH4100 course conveners are present during prototype testing sessions to ensure safety	A "hot zone" should be implemented, where all hot components are placed and left to cool before further handling	4	D	М		



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	Hazard Asse		Existing controls		Risk Rating		Cost of		
Task / Scenario		Associated harm		Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money)	Is this reasonably practicable Y/N
			 A safe distance must be kept from the flame at all times Parts that have been directly exposed to a flame will be allowed to cool before handling 						
Engine operation	 Loose hair or clothing near the moving parts Engine failure during operation could result in flying objects Crush risk to fingers or limbs Candle flame Components of the engine may be heated by the candle flame 	 Hair or loose clothing may become caught in moving parts and cause physical injury Cuts to the eye from flying fragments Moving components can catch body parts, leading to harmed 	Sturdy, enclosed shoes must be worn Safety glasses must be worn Loose hair and clothing must be tightly secured An appropriate distance away from all moving components must be maintained Lab technicians and MECH4100 course conveners are present	NA	3	Ε	M		



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Task / Scenario	Hazard	Associated harm	Existing controls	Any additional controls required?	Consequences	Likelihood	Risk	controls (in terms of time, effort, money) Is this reasonably practicable Y/N	reasonably practicable
		fingers or limbs. • Burns to the skin from contact with the candle flame or hot engine components	during prototype testing sessions to ensure safety						



Risk Rating Matrix

RISK RATING METHODOLOGY AND MATRIX Consider the Likelihood **Consider the Consequences** Calculate the Risk Consider: What type of harm could occur (minor, 1. Take the consequences rating and select the correct column Consider: How often is the task done? Has an accident serious, death)? Is there anything that will influence the happened before (here or at another workplace)? How long 2. Take the likelihood rating and select the correct row severity (e.g. proximity to hazard, person involved in are people exposed? How effective are the control measures? task etc.). How many people are exposed to the Does the environment effect it (e.g. 3. Select the risk rating where the two ratings cross on the matrix below. hazard? Could one failure lead to other failures? Could lighting/temperature/pace)? What are people's behaviours a small event escalate? (e.g. stress, panic, deadlines) What people are exposed (e.g. VH = Very high, H = High, M = Medium, L = Low disabled, young workers etc.)? **CONSEQUENCES** 5. Severe: death or permanent disability to one or A. Almost certain: expected to occur in most Н н VH VH more persons circumstances В н Н VH B. Likely: will probably occur in most circumstances 4. Major: hospital admission required C М н н VH C. Possible: might occur occasionally 3. Moderate: medical treatment required D L М н E М М M 2. Minor: first aid required D. Unlikely: could happen at some time 1. Insignificant: injuries not requiring first aid E. Rare: may happen only in exceptional circumstances

Risk level	Required action
Very high	Act immediately: The proposed task or process activity must not proceed. Steps must be taken to lower the risk level to as low as reasonably practicable using the hierarchy of risk controls
High	Act today: The proposed activity can only proceed, provided that: (i) the risk level has been reduced to as low as reasonably practicable using the hierarchy of risk controls and (ii) the risk controls must include those identified in legislation, Australian Standards, Codes of Practice etc. and (iii) the document has been reviewed and approved by the Supervisor and (iv) a Safe Working Procedure or Safe Work Method has been prepared and (v) the supervisor must review and document the effectiveness of the implemented risk controls
Medium	Act this week: The proposed task or process can proceed, provided that: (i) the risk level has been reduced to as low as reasonably practicable using the hierarchy of controls and (ii) the document has been reviewed and approved by the Supervisor and (iii) a Safe Working Procedure or Safe Work Method has been prepared.
Low	Act this month: Managed by local documented routine procedures which must include application of the hierarchy of controls.



List emergency procedures and controls
List emergency controls for how to deal with fires, spills or exposure to hazardous substances and/or emergency shutdown procedures

- Fire extinguisher available in all UTL Facilities
- All team members are aware of evacuation procedures
- UTL lab technicians are updated on first-aid training
- Emergency services can be easily contactable
- All team members have emergency contacts update to date

mplementation					
Additional control measures needed:	Resources required	Responsible person	Date of Implementation		
Respiratory masks can be worn when					
cutting parts with the hacksaw, filing, and					
drilling/reaming with the drill press	Respiratory mask x 7	Rachel Hansen	12/07/2024		
All parts to be machined (i.e. cut, filed or	Large storage container, labelled				
drilled) will be stored securely	'machining'	Joel Thambi	12/07/2024		
Glass cylinders will be stored securely and					
away from edges	Storage container, labelled 'glass cylinders'	Joel Thambi	12/07/2024		
Finished acrylic parts will be stored					
securely and away from edges	Storage container, labelled 'finished acrylic'	Joel Thambi	12/07/2024		
Finished metal parts will be stored securely	,				
and away from edges	Storage container, labelled 'finished metal'	Joel Thambi	12/07/2024		
A 'hot zone' should be implemented, where					
all hot components are placed and left to	Roll of masking tape (to designate space				
cool before further handling	on workbench as 'hot zone')	Rachel Hansen	12/07/2024		

REVIEW						
Scheduled review date:	12/07/2024	18/07/2024	25/07/2024			
Are all control measures in place?	Yes					
Are controls eliminating or minimising the risk?	Yes					
Are there any new problems with the risk?	No					
Review by: (name)	Rachel Hansen					
Review date:	12/07/2024					

Acknowledgement of Understanding

All persons performing these tasks must sign that they have read and understood the risk management (as described in HS329 Risk Management Procedure).



Note: for activities which are low risk or include a large group of people (e.g. open days, BBQ's, student classes etc), only the persons undertaking the key activities need to sign below. For all others involved in such activities, the information can be covered by other methods including for example a safety briefing, induction, and/or safety information sheet (ensure the method of communicating this information is specified here)

Risk management name and version number: I have read and understand this risk management form: Signature Name Date Joshua d'Ettorre J.D.E. 11/07/2024 Christopher Dykstra C.D. 11/07/2024 Chisom Ezeaku C.E. 11/07/2024 Rachel Hansen R.H. 11/07/2024 N.S. Nathan Sivalingam 11/07/2024 Joel Thambi 11/07/2024 J.T. R.W. Raymond Wang 11/07/2024

