

STEP ONE

Hazard number

Hazard or risk – ANGLE GRINDERS	Area: Engineering Workshop	
Identified by	Date identified / /	
Position		

STEP TWO

Attach any pre-and post-hazard management photos	Attached	Y	N	N/A
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STEP THREE

STEP FOUR

<p>LIST THE ACTUAL OR POTENTIAL HAZARDS, HARM, OR NOTIFIABLE EVENT, INJURY, OR ILLNESS THAT COULD RESULT FROM THE HAZARD.</p> <ol style="list-style-type: none"> 1. Fatality 2. The loss of a bodily function 3. Serious lacerations (stitches) 4. A serious head injury 5. A serious eye injury 6. A serious burn from the disk 7. The separation of his or her skin from an underlying tissue (such as de-gloving or scalping) 8. Hearing loss 9. Possible loss, damage, and rework to the product or service 10. Possible financial loss to the business 	<p>LIST THE CAUSAL FACTORS (What could cause this hazard/risk to occur?)</p> <ol style="list-style-type: none"> 1. The angle grinder is used without the safety guard and the side handle. 2. Used by unauthorised personnel. 3. Uncertified for electrical compliance. 4. No standard operating procedure (SOP). 5. Wrong size grinder for the job being undertaken. 6. The inner and outer flanges being incorrectly placed when tightening the disk. 7. Incorrect grinding wheel/disk used for the job, e.g., steel/masonry. 8. A cutting disk being used for grinding and vice versa. 9. PPE not being worn. 10. Cutting wheel shattering while being used. 11. Continuous run switch left on. 12. Slipping and cutting legs, arms, and fingers. 13. Kickbacks from the angle grinder jamming and striking body parts. 14. Explosion caused by sparks coming in contact with petroleum products. 15. Fire caused by sparks contacting stored rags or other combustible materials.
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STEP FIVE - RISK RATING - refer to the risk rating matrix in the yellow card (tick or circle)

Stage 1 INITIAL RISK RATING	LOW RISK D	MODERATE RISK C	HIGH RISK B	CRITICAL RISK A
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STEP SIX - CONTROL METHODS

CAN IT BE ELIMINATED?	YES / NO	If no, why not?
Reason		
Minimisation controls by:	Substitution?	Engineering?
Isolation?	Administration?	PPE?

STEP SEVEN - RECORDING OF THE CONTROLS

Action

	Hazard/risk control plan	Completed
1.	Develop a standard operating procedure for the use of angle/disc grinders.	
2.	Train all staff in the safe use of these hand tools and record the training.	
3.	Include all grinders in the scheduled electrical testing programme.	
4.	PPE must always be worn (hearing and safety glasses).	
5.	Train employees in the correct method of fitting and tightening down the grinding wheel.	
6.	Remove all oily rags and any petroleum products from the work area when grinding.	

STEP EIGHT- HEALTH MONITORING AND TRAINING

1. Is health monitoring required? YES / NO If yes, what monitoring? Hearing? Respiratory? Eyesight? Blood? Wellness? Stress?
2. Is training required? YES / NO

©Hasmate 01/21	Review dates V1		

3. Is a training plan in place? YES / NO
4. Has all training been recorded? YES / NO
Actions

STEP NINE - POST RISK RATING AND MONITORING

Conduct the post risk rating after a scheduled time (6-12 months) when the controls have been tested and monitored for effectiveness.

If an incident or accident occurs due to the hazard or risk, carry out a re-evaluation of the event and the associated hazard and controls.

POST RISK RATING Review date	LOW RISK D	MODERATE RISK C		HIGH RISK B	CRITICAL RISK A
Continually	Monthly	3 Monthly	6 monthly	Annually	2 yearly
By whom	Date	Date	Date	Date	Date

STEP TEN

LIST THE RELATED REFERENCES (used for the control of the hazard/risk)

2015 H&S at Work Act, 2016 H&S at Work Regulations, 2017 Hazardous Substance Regulations, Accepted Codes of Practice (ACOPS), WorkSafe NZ fact sheets and guidelines, ACC guidelines, International and AS/NZS Standards, Industry Best Practice, manufacturer’s manuals & the references.

The following are examples only, it is recommended that the user use information from the relative websites for further information

- Manufacturer’s handbooks and safety instruction manual
- AS/NZS 4801: 2001.Occupational H&S management systems.
- AS/NZS 4360:2004 Risk Management standards
- NZFS Fire Safety and Evacuation of Building Regulations 2006

MANUFACTURING AND ENGINEERING

- <https://worksafe.govt.nz/dmsdocument/488-fixed-hand-held-grinders>
- <https://worksafe.govt.nz/topic-and-industry/power-tools/fixed-hand-held-grinders/>
- <https://www.dnaelectrical.co.nz/wp-content/uploads/2018/11/Angle-Grinder-Safe-use-Policy.pdf>
- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2263029/>
- https://www.ccohs.ca/oshanswers/safety_haz/abrasive_wheels/safeuse1.html

- Safe use of Machinery
- Wood Dust - Controlling the risk
- Silica Dust in the Workplace
- ACC Guidelines for the Metal Industry
- Guarding of Machinery General Principles
- DOL guidelines Guarding Principles for Machinery
- AS/NZS 3760 Electrical Certification Standards

WORK RELATED HEALTH

- ACOP manual handling
- ACOP management of noise in the workplace

Completed by: **Position:** **Date:** / /