Business Procedure



Safe Use of Grinders Document Number – OHS-PROC-131

This document applies to the following site(s):

All Sites	

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1.0 Purpose/Scope

The purpose of this Business Procedure is to define Stanwell's minimum mandatory requirements for the management of hand held electric and pneumatic grinders, and pedestal/bench grinders.

This Business Procedure applies to all personnel who use hand held electric and pneumatic grinders, and pedestal/bench grinders throughout Stanwell, all its sites and all activities under Stanwell's control. It applies to all Stanwell employees and contractors, including visitors to Stanwell workplaces.

This Business Procedure does not apply to die grinders.

2.0 Actions

Only angle grinders which meet the following specification shall be used on Stanwell sites.

- Angle grinders shall be designed in accordance with AS/NZS 60745.2.3:2011 Hand-held Motor-operated Electric Tools - Safety - Particular requirements for grinders, polishers and disk-type sanders.
- Angle grinders greater than 4.5 inch must have soft start and an automatic cut-off or 'dead man' switch as part of the hand grip.
- 7 inch and larger angle grinders used for cutting purposes must include a torque limitation clutch.

Persons responsible for procuring angle grinders must ensure that the model purchased also meets these specifications:

- Where possible, select models with adjustable handles that can be moved to suit both left and right handed operators.
- Ensuring newly purchased grinders have disc brake and anti vibration functions built in.

2.1 Safe Systems of Work Requirements

Where eliminating the need to perform grinding is not practicable, techniques that minimise the potential for harm should be used, for example, where a safer alternative cutting tool is available or can be obtained an angle grinder should not be used as a cutting tool.

Alternative cutting tools may include the use of power bandsaws, drop type abrasive power saws, hand held reciprocating saws, clam shell cutters, mechanical shears, specialised cutters designed for cutting sheet metal (e.g. nibblers, shears), oxy acetylene equipment, plasma cutters etc.

2.2 Hot Work Authorisation

All grinding or cutting work performed outside of a workshop or designated hot work area must be carried out under the guidance of applicable site hot work authorisations.

2.3 Safe Use of Grinders

- All grinders must be inspected prior to use and all accessories must be compatible with the rated capacity and design of the tool.
- The rated speed of the disc/wheel must be at least equal to the maximum speed marked on the tool.
- Use only disc/wheel types that are recommended for the grinder and the specific guard designed for the selected wheel.
- Discs/wheels should be stored in a dry place.
- Any defects are to be repaired by an authorised and competent person.

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2.4 Angle Grinders

- Use grinding wheels as per the manufacturer's instructions. Cutting wheels/discs must not be used for grinding jobs, and grinding wheels must not be used for cutting jobs.
- The arbour (centre) size of discs, flanges, backing pads or any other accessory must fit the spindle of the tool. Accessories with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- All guards are to be in place and secured prior to use.
- Handles shall not be removed from grinders unless risk assessed as safe to do so, and only for the minimum required time.
- If the use of a 7 inch or larger portable angle grinder is deemed necessary for cutting, and there is no practical alternative, the Large Angle Grinder for Cutting Approval Form T-1559 must be completed.
- The job piece should be securely fastened whilst being ground or cut and not held by hand.

2.5 Bench/Pedestal Grinders

- Do not use non ferrous metals on aluminium oxide wheels as this can cause the wheel to explode.
- Keep wheels dressed; maintain a square working face with approximately 1.5mm of clearance to the tool rest.
- Grind on the face of the wheel only, do not side load the wheels.
- If a wire brush is used, the tool rest and wheel guarding are to be removed from the bench/pedestal grinder prior to operating and replaced when the task is completed.
- Bench/pedestal grinders are to be securely attached to a stable base.

3.0 Personal Protective Equipment (PPE)

- Double eye protection is mandatory when using a grinder unless full face protection is used and it is sealed to the users face.
- Face shields must have an impact resistance rating of 'high' as per AS/NZS 1337.1:2010
 Personal Eye Protection Eye and face protectors for occupational applications.
- · Hearing protection must be worn where identified.
- Gloves must be worn when using hand held angle grinders. Ensure that gloves are well fitting to allow a good grip of the tool.
- Gloves are not recommended for use with bench grinders (e.g. wire or cloth buffing), unless a risk assessment determines that gloves are necessary.
- Where there is a risk of exposure to harmful airborne contaminants, appropriate respiratory protection must be worn.
- To protect against flying fragments or sparks appropriate PPE should be worn such as; leather hood, leg protectors, and workshop apron / jackets.
- A leather apron or similar is to be worn while using a wire buffing wheel to protect the operator from wire projectiles.
- Do not wear loose clothing or jewellery and ensure long hair is tied back when performing grinding operations.



4.0 Training and Competence Requirements

Any worker who operates a grinder must have obtained competency to operate via the achievement of a trade qualification, Verification of Competency (VOC), awareness training or appropriate skills and experience obtained on the job.

5.0 Review, Consultation and Communication

Review:

This Document is required to be reviewed, as a minimum, every 5 year/s

Consultation:

Required personnel from all sites have been consulted as part of the Health and Safety document consolidation.

Communication/Requirements after Update:

This document will be communicated throughout the Health and Safety team.

6.0 References

- Environmental Protection Act 1994 & Regulation 2008
- Health & Safety Act 2011 & Regulation 2011

Source	Reference
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Australian Standards

- AS/NZS 60745.2.3:2011 Hand-held Motor-operated Electric Tools
 Safety Particular requirements for grinders, polishers and disk-type sanders.
- AS/NZS 1337.1:2010 Personal Eye Protection Eye and face protectors for occupational applications.

Stay Safe

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Forms

T-1559 Large angle grinder for cutting approval form

7.0 Definitions

N/A

8.0 Revision History

Rev. No.	Rev. Date	Revision Description	Author	Endorse/Check	Approved By
0	25.08.2015	Procedure created to consolidate legacy related documents	Jan Fullard	Michael Joy / Trevor Hooper	Ian Gilbar



Appendices 9.0

Appendix A: Safe Use of Grinders Document Flowchart

