

Safe Work Instruction	Issue date: 23/04/10
Angle Grinders	Review date: 11/09/11

Document no. SMS-06-SW-0474	Work description Use of angle grinder		
	Scope Applies to all types of angle grinders		
Review date 11/09/11	References OHS Reg 2001 Chapter 5 Workcover Code of Practice – Electrical practice for construction work Workcover Guidance Note – Electrical Equipment Risk Assessment AS/NZS 3760 – In-Service safety inspection and testing of electrical equipment SMS-06-GD- 0268 Working around electrical equipment SMS-06-PR-0329 Hot Work SMS-06-GD-0225 Plant SMS-06-GD-0403 Plant Risk Assessment		
Responsible supervisor <i>Insert name in BLOCK letters</i>	PPE and precautions	Competencies or qualifications	Licences or permits required
	<ul style="list-style-type: none"> Safety goggles or full face protection Hearing protection – everyone must wear hearing protection within 5 metres of the grinder Long sleeved shirt – Make sure you have no loose clothing that can be caught on the grinder Safety boots 	Trained and competent in the use of the specific angle grinders. Backsafe instruction	During periods of Total Fire Ban, a Hot Work Authority is required - see the provisions of section 4.3.3 in the Hot Work procedure
Tools and equipment required			
Angle grinder			
IF CONTROL MEASURES ARE NOT SUITABLE AND MAJOR CHANGES ARE NEEDED, CONDUCT A RISK ASSESSMENT AND DEVELOP NEW CONTROLS ACCORDING TO SMS-06-PR-0104 WORKPLACE RISK MANAGEMENT .			




Warning

Don't smoke when using the angle grinder.

Site / job planning	<ul style="list-style-type: none"> Place the first aid kit and fire fighting gear nearby. Follow all worksite procedures, eg. induction, Pre-Work Brief. Conduct your own hazard assessment – consider the job, the environment and the weather (eg. Fire risks are higher near long grass or in windy weather). Clear the worksite in a 5 metre radius from the grinder. Keep fuels, people, site equipment and anything flammable well away.
Pre-operational checks	<ul style="list-style-type: none"> Remove power Lead from power point before changing the grinding wheel or for any maintenance, including clearing the grinding dust away. Check the condition of the grinding wheel and grinder – don't use the grinder or the wheel if they are damaged. Replace the grinding wheel or tag the grinder and repair ASAP. Check that the grinding wheel-retaining nut is secure.

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Using the angle grinder	<ul style="list-style-type: none"> • Check you know what happens and the precautions to take when a grinding wheel becomes worn or damaged during grinding. <p>Always:</p> <ul style="list-style-type: none"> • check the Manufacturer's Instructions for the model you are using if you are not familiar with it – there may be safety critical differences to the one you are used to • support the work piece to stop it moving while grinding • start grinding gently – don't force the grinder or cut heavily into the job • start and stop the machine according to the Manufacturer's Instructions • idle the machine when not grinding • wait for freshly cut metal to cool, or use heavy duty gloves to handle it. 	
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Care and storage	<ul style="list-style-type: none"> • If using a battery powered grinder, make sure the battery is charged before you put it away. • Store power leads rolled up away from sharp or hot objects.
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Inspection and maintenance	<ul style="list-style-type: none"> • Conduct maintenance as per the Manufacturer's Specifications – get an authorised dealer to do any repairs or checks / alterations to the motor settings • Maintain inspection and test records in accordance with SMS-16-SR-0057 Inspection and Testing and SMS-05-SR-0027 Records Management.
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Additional controls