

SAFE WORK METHOD STATEMENT



ANGLE GRINDER

Prepared for

Client:	Project No:	
Site:	Date Prepared:	

RESPONSIBILITIES

Y Contractors will conduct inductions for all workers (inclusive of employees and subcontractors) prior to commencing site work. A record of site inductions and toolbox meetings will be kept at the Y Contractors office for future reference.

The Principal Contractor or Client will provide adequate amenities (toilets, wash rooms, dining facilities etc) as defined for this work type and in accordance with Safe Work Australia Code of Practice Managing the Work Environment and Facilities.

All Y Contractors workers engaged in site work are required to wear the necessary Personal Protective Equipment (PPE) as noted in this document. No glass containers will be allowed on site (except in meal rooms). The consumption of illegal drugs and alcohol is prohibited.

2. DESCRIPTION OF WORK

This brief, step by step work summary is to be completed by the Person Conducting Business or Undertaking (PCBU) or Site Supervisor on site prior to work commencing to assist in the identification of possible hazards:

2. 3. 4. 5. 6. 7. 8. 9.	1.	
3. 4. 4. 5. 5. 6. 7. 8. 9. 9.	2.	
4. 5. 6. 7. 8. 9.	3.	
5. 6. 7. 8. 9.	4.	
6. 7. 8. 9.	5.	
7. 8. 9.	6.	
8. 9.	7.	
9.	8.	
	9.	

Date and Time Printed:	Reference:	Version:	v1.2				
2/10/2013 12:30 PM	SWMS-Angle Grinder	Date:	01/01/2012	Page: 1 of 10			
© 2010 Occupational Safety Solutions www.occupational-safety.com au							





3. RISK ASSESSMENT

Risk Assessment Table

Hierarchy of Controls

Consequence or Impact of Hazard	Level of harm	Α	Ρ	U	Likelihood/Probability	Risk Rating
H-Potential death, permanent or long	H -High	1	1	2	A-Almost certain could	1-Immediate
term disability or illness, significant					happen at any time	action is
detrimental environmental impact						required
M- Potential temporary disability or illness	M-Medium	1	2	3	P-Possible risk could	2-Control the
requiring medical attention, short term					happen occasionally	risks/ hazards
environmental impact						a.s.a.p.
L-Potential minor injury requiring first aid	L -Low	2	3	3	U-Unlikely may happen	3-Control risks
or minimal environmental impact					rarely	with routine
						procedures

When assessing the risk of a particular hazard remember:

- The rating you use should indicate the importance of the action required to minimise the Risk posed by the Hazard.
- The more Hazards you identify the greater the overall Risk on the site.
- Overall Risk increases as the number of people exposed to a Hazard increases.
- The more serious the potential impact to a person's health from a Hazard the greater the Risk.
- The frequency of exposure to a Hazard will increase the Risk.

Eliminate – 'Design out' the hazard when new materials, equipment and work systems are being purchased for the Most Effective Eliminate workplace; Substitute - Substitute less hazardous materials, equipment or substances and use smaller sized containers; Substitute Isolate - separate the workers from hazards using barriers, enclosing noisy equipment and providing exhaust or Isolate ventilation systems; Engineering - use engineering controls to reduce the risks such as guards on equipment, hoists or other lifting and Engineering moving equipment; Administrative – Minimise the risk by adopting safe working practices or providing appropriate training, instruction or Administrative information. **Personal Protective Equipment** – Make sure that appropriate PPE is available and used correctly. Least Effective Date and Time Printed: * • • • • 2/10/2013 12:30 PM SWMS-Angle Grinder 01/01/2012 Page: 2 of 10 Date:





<u>The Work Process</u> - "Risk Rating" and "Who is Responsible" is to be completed by the PCBU or Site Supervisor prior to work commencing. Additional Site Specific Requirements are to be entered following this section:

Steps	Step by Step Procedure	Possible Hazards	Risk Rating	Safety C	ontrols		Who is responsible?
1	Risk Assessment	Tool – condition / guards etc. Untrained workers Workplace / worksite hazards		 Do a Risk Assessment prior to co Assessment Worksheet and Haza Identify additional safety controls specific to the task or site; and Make sure workers are trained, qu the specified tasks and use the to 	mmencing w ard Report Fo that may be ualified or ex ols.	ork using the <i>Risk</i> orm. required that are perienced to carry out	
2	Preparation of work area	Lighting Hot Work (cutting / grinding) Fire / explosion		 Make sure lighting is adequate fo Where applicable, obtain a Hot W Use of abrasive tools in the open forbidden. 	r the work ac 'ork Permit; a on fire ban d	tivity; and ays without a permit is	
3	Personal Protection Equipment (PPE)	Injury, illness, permanent disability and in extreme cases death.		 PPE is to be used only when no celiminate the hazard / risk; Make sure all workers are issued PPE as required for safety on the activities and tasks; and Train workers in the correct use, respectively. 	with and wea with and wea worksite and maintenance	can reduce or ar the recommended d specific to the and storage of PPE.	
4	Noisy equipment	Excessive or prolonged noise can cause hearing damage or permanent deafness.	A	 Separate the workers from the no Maintain equipment or install nois Wear hearing protection - earplug 	ise where po e suppresso s or earmuff	ossible; rs; and s.	
5	Vibrations	Hand and arm vibrations can cause White Finger Syndrome or Reinhold Syndrome		 Wear thick cotton gloves; Rotate tasks to prevent prolonged Exercising and massage hands to 	l use of vibra encourage	ting equipment; and blood circulation.	
6	Dust	Inhaling dust can cause rhinitis, bronchitis, lung damage, allergic reactions, asthma attacks and fibrosis		 Wet down area to reduce dust or provide ventilation; Use tools with water attachment to reduce dust; and Wear a dust mask or half or full face respirator. 			
Date and	Time Printed:	Reference:			Version:	v1.2	
2/10/2013	3 12:30 PM	SWMS-Angle Grinder			Date:	01/01/2012	Page: 3 of 10





Steps	Step by Step Procedure	Possible Hazards	Risk Rating	Safety Controls	Who is responsible?
7	Housekeeping - obstacles and cluttered work areas	Slips, trips and falls can cause cuts, abrasions, breaks, strains and sprains and back injuries to workers and others.		 Carry out basic housekeeping regularly, keeping access ways and the work area clear of materials, tools and debris; Wear appropriate footwear; Make sure cables and other equipment do not cause a trip hazard; and Barricade or restrict areas where the hazard can't be eliminated. 	
8	Electricity and power tool use	Electricity /tools - electrocution Impact injuries Cuts and abrasions Amputations Noise – hearing damage Flying debris – eye injuries		 Train workers in the correct use of the equipment and supervise until they demonstrate they can operate the tool safely; Use tools and fittings to manufacturers recommendations; Check equipment is tested and tagged and are in good condition, especially power / ext. cords, repair or replace as required; Use Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD) to prevent electrocution; Use stands and hooks to raise power cords off the ground in wet or high traffic areas; Wear the appropriate PPE such as safety boots, hearing protection, dust mask or half or full-face respirator, gloves etc. and Keep hair, jewellery and loose clothing etc away from moving parts. 	
9	Check for combustible or flammable materials	Fire / explosion Burns	E.	 Remove any flammable or combustible items or materials from the work area where sparks may be generated' Make sure a fire extinguisher and/or a fire blanket is readily available in case of fire; and Make sure appropriate first aid is readily available. 	
10	Choose the right grinding wheel.	Electricity /tools - electrocution Hot Work – fire / burns Flying objects / debris Eye Injury Noise – hearing damage Tools / off cuts - cuts		 Arrange grinding wheels making sure that older wheels will be chosen before newer ones; Make sure all wheels (new or used) are visually inspected for any cracks and/or abnormalities; Make sure a resonance test is conducted before fixing the wheel to the spindle. This can be done by tapping the side of the wheel with a small tool. Listen for a sharp, clear ring. A flat, dull noise generally 	

Date and Time Printed:	Reference:	Version:	v1.2				
2/10/2013 12:30 PM	SWMS-Angle Grinder	Date:	01/01/2012	Page: 4 of 10			
© 2010 Occupational Safety Salutional wave accupational safety com au							





Steps	Step by Step Procedure	Possible Hazards	Risk Rating	Safety Controls	Who is responsible?
				indicates a faulty wheel;Make sure the grinding wheel is the correct size and speed; andFit wheel to spindle and avoid over tightening.	
11	Check equipment	Electricity /tools - electrocution Machine / equipment guarding		 Make sure power is turned off before adjusting wheel; Make sure the correct locking nut and flange is in place for the type of disc being used. Using incorrect locking nuts and flanges can lead to disc shatter; Make sure machine guards are in place and in good working order; Make sure the wheels or discs are inspected for cracks, nicks, clogging or other defects before use; Immediately dispose of any faulty wheels or discs; Make sure the grinding wheel is the correct speed for the grinder; Never tamper with or remove a speed governor to make the grinder run faster; Always use cutting wheels or discs for cutting jobs. Never grind with cutting wheels or discs; and Always use grinding wheels for grinding jobs. Never cut with grinding wheels. 	
12	Start the angle grinder	Electricity /tools - electrocution Machine / equipment guarding		 Make sure trigger mechanism operates effectively; and Stand aside and make sure the wheel is able to run idle for a period before commencing grinding. 	
13	Perform the operation	Electricity /tools - electrocution Hot Work (cutting / grinding) Flying debris – eye injuries Noise – hearing damage Cuts and abrasions Burns – hot fittings/equipment		 Secure the work piece so both hands can operate the grinder; Hold the trigger in one hand and the other hand to steady the grinder body; Place material at waist height when grinding or cutting; Use screens or blocking guards to prevent flying sparks and debris; Where possible, use soundproof panels or isolate / enclose noisy equipment; Grind on the face of the wheel and never on the side; Always cut using the side of the wheel; 	

Date and Time Printed:	Reference:	Version:	v1.2				
2/10/2013 12:30 PM	SWMS-Angle Grinder	Date:	01/01/2012	Page: 5 of 10			

OCCUP	ATIONAL S	SAFETY	SOLUTIONS



Steps	Step by Step Procedure	Possible Hazards	Risk Rating	Safety Controls	Who is responsible?
				 Work slowly whilst the wheel / disc is cold to avoid disc shatter; Stop the grinder at regular intervals to rest your arms and hands and maintain circulation; Hold the grinder against the work piece with minimum pressure to avoid the work piece digging in or kicking back; Maintain an angle of 15-30 degrees between the disc and the work piece; Never operate a grinder between the legs whilst sitting on the floor; and Wear gloves when handling sharp or hot objects. 	
14	During operation	Electricity /tools - electrocution Machine / equipment guarding Hot Work (cutting / grinding) Flying debris – eye injuries Noise – hearing damage Dust – lung damage Cuts and abrasions Burns – hot fittings/equipment		 Make sure machine guards are in place and in good working order; Isolate angle grinder from work area where possible or restrict access whilst grinder is in operation; Never force grinding so that motor slows or work gets hot; Check the hole in the grinding wheel fits closely on the spindle; Use clamps or a vice to hold work piece; Use the flat of the wheel when grinding; Never roll a grinding wheel on its edge as it may absorb oil or dirt from other surfaces, which may lead to wheel damage; Wear approved ear and eye protection whilst grinding. Wear gloves when handling hot or sharp objects; and Make sure the work site is kept clean and tidy to reduce the risk of slips and trips. 	
15	Switch off equipment	Electricity /tools - electrocution Fire / explosion		 Make sure the disc or wheel stops rotating before putting the grinder down; Disconnect from the power supply and place the grinder on a bench with the disc facing upwards when not in use; and Check area for smouldering debris. 	

Date and Time Printed:	Reference:	Version:	v1.2				
2/10/2013 12:30 PM	SWMS-Angle Grinder	Date:	01/01/2012	Page: 6 of 10			
© 2010 Occupational Safety Solutions www.occupational-safety.com.au							





Steps	Step by Step Procedure	Possible Hazards	Risk Rating	Safety Controls	Who is responsible?
16	Completion of work or end of work day	Electricity /tools - electrocution Manual handling - strains sprains and back injuries Slips, trips and falls Cuts and abrasions		 Turn off the isolating switch when the work is complete and disconnected the machine from the power source; Remove any excess materials from the site using correct manual handling techniques; Wear gloves when handling sharp objects; Place equipment in approved storage area or back in work vehicle; Make sure the work area is left clean and tidy; and Lock / secure storage areas and / or site as required. 	

Site Specific Requirements - To be completed by the PCBU or Site Supervisor if site specific hazards are identified (attach additional pages if necessary):

Steps	Step by Step Procedure	Possible Hazards	Risk Rating	Safety Controls	Who is responsible?
			Sug		
			01		
		5 62	62	10 10 Martin Carlos	
			PT 13	A CONTRACTOR OF	
		Constant of	2 1910		

Date and Time Printed:	Reference:	Version:	v1.2	
2/10/2013 12:30 PM	SWMS-Angle Grinder	Date:	01/01/2012	Page: 7 of 10
© 2010 Occupational Safety Solutions, www.occup	ational-safety com au			





4. RESOURCES, QUALIFICATIONS AND PERMITS REQUIRED

Minimum number of workers required to complete this work	1
Trade licence required to	Licence No:
complete this work	Held By:
Additional qualifications, permits and/or experience required to complete this work	
Additional training required to complete this work	Site Specific Induction and SWMS review required for all workers

5. SAFETY RESPONSIBILITIES

The Officer for this project is _____, he/she can be contacted on

The **Site Supervisor** for this project is _____, he/she can be contacted on _____.

The Health and Safety Representative (HSR) for this project is _____, he/she can be contacted on _____.

All Y Contractors workers:

- \rightarrow WILL be required to have relevant trade experience.
- → WILL be required to attend regular site inductions, project and task specific induction training and possess the current General Construction Induction Training card.

Work Health and Safety - Responsibilities

- a) _____ will be responsible for identifying and assessing the hazards associated with the works, and documenting the hazard control measures to be taken.
- b) _____ will be responsible for compliance with Work Health and Safety (WHS) legislation, regulations, standards, codes, and the site-specific Sites Safety Rules.
- c) _____ will be responsible for assessing and monitoring your subcontractors' capabilities, and for making sure they meet WHS requirements.
- d) _____ will be responsible for managing the acquisition and communication of WHS information to managers, supervisors and people working on site.
- e) _____ will be responsible for preparing, maintaining and making accessible the register of hazardous substances.

_____will be responsible for maintaining first-aid stocks.

- g) _____ will be responsible for managing accident and emergency procedures.
 - will be responsible for keeping WHS records.
- i) ______ will be responsible for making sure that the Site Safety Rules are available and provided to people who may work on or visit the Site.
- j) _____ will be responsible for workplace injury management and rehabilitation.
- k) _____ will be responsible for managing communication between Health and Safety Committees (where applicable).
- I) _____ will be responsible for displaying the Site Safety Rules on noticeboards and other suitable locations on site.

Date and Time Printed:	Reference:	Version:	v1.2	
2/10/2013 12:30 PM	SWMS-Angle Grinder	Date:	01/01/2012	Page: 8 of 10
@ 2010 Occupational Cofety Colutions, where converse	ational sofety som ou			

f)

h)





6. TRAINING RESPONSIBILITIES

The HSR will:

- a) identify the WHS training needs of management, supervisors and workers on site;
- b) make sure that appropriate training is carried out internally and/or by Safe Work Australia accredited trainers;
- c) make sure that all personnel attend general construction WHS induction training before starting work;
- d) make sure that all personnel attend adequate site-specific induction, work activity and refresher safety training;
- e) conduct induction training, task training and refresher safety training for everyone working on site; and
- f) keep appropriate records of WHS training at the Y Contractors office.

7. INCIDENT MANAGEMENT

The HSR will:

- a) be available (both during and outside normal working hours) to prevent, prepare for, respond to and recover from incidents; and
- b) make sure that the procedures for contacting the relevant person(s) are communicated and clearly displayed on the sites.

8. PLANT AND EQUIPMENT

Plant and Equipment used on site includes but is not limited to:

Plant and/or Equipment	Inspection and maintenance checks required
Electrical plant, power tools, leads and ELCB's	Tested and tagged monthly. Visual inspection prior to use
Angle grinder	Visual inspection prior to use and to manufacturers recommendations
	The second second

9. PERSONAL PROTECTIVE EQUIPMENT (PPE)

PPE for this task includes but is not limited to:

1	Safety boots	6	Hearing protection
2	Respiratory masks	7	
3	Sunglasses / safety glasses	8	
4	Protective gloves	9	
5	High visibility clothing / vests	10	



10. ACCESS

No access shall be permitted by other trades into the work area whilst work is in progress. If necessary, appropriate signage and/or hoarding will be set up around the work area to prevent access. Such signs and hoarding will be removed and area made-good on completion of work.

11. LEGISLATION, REGULATIONS, CODES AND STANDARDS

The following reference documents have been identified as relevant to this project and a copy is kept at the Y Contractors office. This list is a guide only and is not necessarily all the relevant documentation:

- a) Work Health and Safety Act 2011
- b) Work Health and Safety Regulations 2011
- c) COP Managing Risks in Construction Work
- d) COP First Aid
- e) COP Hazardous Manual Tasks
- f) COP How to Manage Work Health and Safety Risks
- g) COP Managing the Work Environment and Facilities
- h) COP Managing Noise and Preventing Hearing Loss
- i) COP Managing Risks for Electrical Work

Date and Time Printed:	Reference:	Version:	v1.2	
2/10/2013 12:30 PM	SWMS-Angle Grinder	Date:	01/01/2012	Page: 9 of 10





12. SIGNOFF

The representatives of Y Contractors listed below have been involved in the creation and implementation of this Safe Work Method Statement (SWMS) and will make sure all work is carried out in accordance with this document. All workers listed below have the appropriate licence/qualifications and/or experience required to perform each job task:

Worker on site	Role (e.g. worker, supervisor)	Signature	Date
		and the second second	
		A Row 1	
		COLLA I	
	1993		
	Ce Es Da	a station of the second	

Signature and details of person responsible for site supervision of the work, inspecting and approving work areas, work methods, compliance with SWMS, protective measures, plant, equipment and power tools for this site:

Signed:	Date:
Name:	Position:

Date and Time Printed:	Reference:	Version:	v1.2	
2/10/2013 12:30 PM	SWMS-Angle Grinder	Date:	01/01/2012	Page: 10 of 10
© 2010 Occupational Safety Solutions, www.cocup	ational safety com au			