Pouring Molten Metal SAFE WORK METHOD STATEMENT (SWMS)							
TAS	K OR ACTIVITY: Pouring Molten	Metal					
Business Name:		ABN:	SWMS#				
Business Address:							
Contact Person:	Phone:	E ail:					
THIS SAFE WORK METHOD		THE PC. OF THE ROJECT					
Under the Work Health and Safety Regulation (WHS Regulation), a person condu the proposed work starts.	icting a business or under thing (Pu-U) is	required to entry that a safe work method	statement (SWMS) is prepared before				
Full Name:							
Signature:		Title:	Date:				
Details of the person(s) responsible for ensuring implementation, monitorin	compliance of the SWI, was well as re	eviews and modifications of the SWMS.					
Full Name:		Title:	Phone:				
ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS WMS	NATE OF ALL RELEVANT PERSONNEL OF ALL RELEVANT PERSONNEL OF	NEL WHO HAVE BEEN CONSULTED AND THIS SWMS	COMMUNICATED TO IN THE				
Safety meetings or toolbox talks will be scheduled in account with regislative requirements to first identify any site hazards, and the to control the those hazards and then to further take steps to either eliminate or control leach hazard.							
If an incident or a near miss occurs, all work must store a diately. Depending on the severity of the incident, a meeting will be called with all workers to amend the SWMS if required. The meeting may also be an educational opportunity.							
Any changes made to the SWMS after an incident or a near miss must be approved by the Person Conducting Business or Undertaking and communicated to all relevant personnel.							
The SWMS must be kept and be available for inspection at least until the work is completed. Where a SWMS is revised, all versions should be kept. If a notifiable incident occurs in relation to which the SWMS relates, then the SWMS must be kept for at least two years from the occurrence of the notifiable incident.							



CLIENT OR PRINCIPAL CONTRACTOR DETAILS							
Client:	SCOPE OF WORKS						
Project Name:							
Project Address:							
Project Manager:							
Contact Phone:							
Date SWMS supplied to Project Manager:							
☐ involves a risk of a person falling more than 2 meters	d is carried out on or near pressurised gas mains or piping						
□ is carried out on a telecommunication tower	carried out on or near chemical, fuel or refrigerant lines						
□ involves demolition of an element of a structure that is load-bearing	□ is carried out on or near energised electrical installations or services						
□ involves demolition of an element related to the physical integritystructure	\Box is carried out in an area that may have a contaminated or flammable atmosphere						
□ involves, or is likely to involve, disturbing as the set of the	□ involves tilt-up or precast concrete						
involves structural alteration or repair the requires to prary support to prevent collapse	\Box is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor						
□ is carried out in or near a confined space	\Box is carried out in an area of a workplace where there is any movement of powered mobile plant						
□ is carried out in/near a shaft or trench deeper the first or tunnel involving use of explosives	\Box is carried out in areas with artificial extremes of temperature.						
\Box is carried out in or near water or other liquid that involves a risk of drowning.	☐ involves diving work.						
ANY HIGH-RISK MACHINER	RY OR EQUIPMENT NEARBY						



	RISK MATRIX									
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION		HEIRARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE	SCORE	ACTION		Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCE		Substitution	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE	3H HIGH	Review befor work starts.		Replace the hazard.	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.		Isolate People from the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	nitor and key recorde		Engineering Isolate the hazard.	
is the second m	RARE LOW LOW MODERATE HIGH HIGH LOW ks. records Isolate the hazard. Indees on Hierarchy of Controls: Elimination methods are the most effective and preferrence on control and a hazard. Substitution Administrative Change the work. Isolate the host of controlling a hazard. Engineering by isolation is the plan post of the pla									

	PERS_NAL TECTIVE EQUIPMENT (PPE) Select the appropriate PPL about suitably for the equipment used or the job task being performed (if applicable).										
FOOT PROTECTION	HAND PROTECTION	HEAD PROTECTION			RL SPIRATORY PROTECTION	FACE PROTECTION	HIGH-VIS CLOTHING	PROTECTIVE CLOTHING	FALL PROTECTION	SUN PROTECTION	HAIR/JEWELLERY SECURED
Other PPE R	Other PPE Required:										
	Permit or Licenses Requirements Mandatory Qualifications and Training										

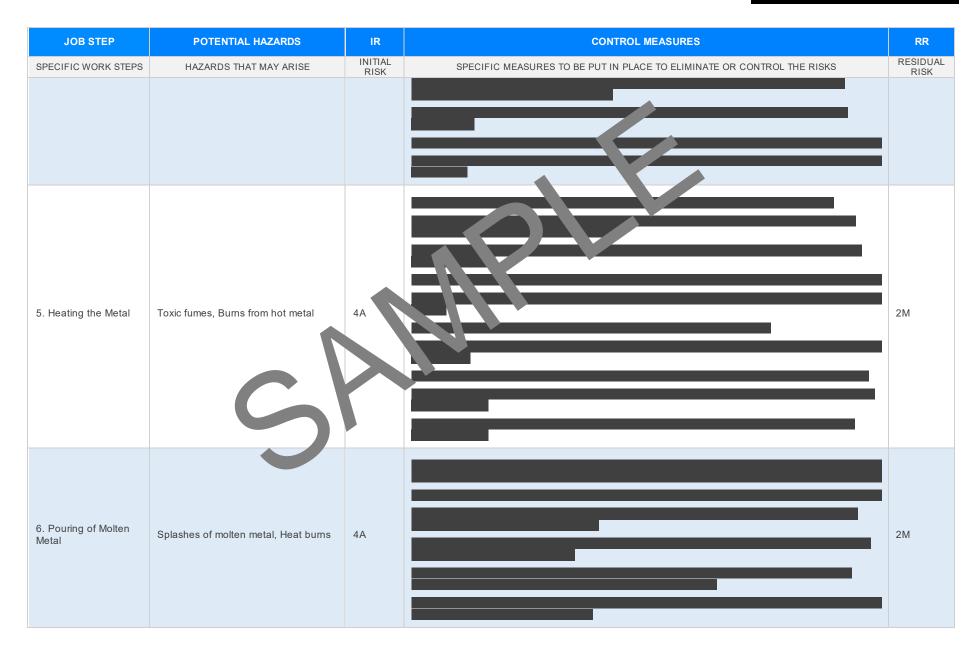


JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
1. Preparation	Mismanaged equipment, Improper personal protective equipment (PPE)	ЗН	 Conduct a pre-start safety briefing with althoused personnel to clarify responsibilities and procedures. Ensure all employees have received proper valuing on andling equipment and pouring molten metal. Inspect all equipment for defects or damage more use, ensuring they meet safety standards. Confirm that all workers are rearing appropriate PPE, including heat-resistant gloves, face shields, aprons, and steel-toed boots. Clearly mark an outrice, the work area to restrict access to authorised personnel only. Check and dibrate temperature or troler and gauges on melting equipment to avoid overheating or equipment faile. Main anciear companication channels among team members using radios or hand signals to ensure coord at. Provide fire sistam orthing and ensure it is properly worn by all personnel working in close proximity to hot in real. Notifies to working condition. Nilise tongs, ladles, and other tools designed specifically for handling molten metal to minimise direct constraines. Store flammable materials and chemicals at a safe distance from the pouring zone to reduce the risk of accidental ignition. Monitor atmospheric conditions for the presence of toxic fumes and ensure adequate ventilation systems are functioning. Have an emergency response plan in place, including first aid kits and trained first responders onsite during operations. 	2М
2. Checking Equipment	Faulty machinery, Inadequate operator training	ЗН	 Regularly inspect machinery for any signs of wear, damage, or faults before each use Implement a rigorous maintenance schedule to ensure all equipment is in safe working condition Ensure all inspections and maintenance activities are thoroughly documented Train operators on proper machine handling and emergency procedures Conduct regular competency assessments to validate that operators have the required skills and knowledge Display operating instructions and safety guidelines prominently near machinery Keep a logbook for recording any equipment malfunctions or abnormalities observed during operation Provide operators with personal protective equipment (PPE) including gloves, face shields, aprons, and appropriate footwear 	2M



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
			- Install safety barriers or guards around hazardous machinery parts to prevent accidental contact	
			- Clearly label and color-code control buttons and emergency stop mechanisms for easy identification	
			- Have a clear and easily accessible procedure preporting and addressing faulty machinery promptly	
3. Preheating furnace	Bums from hot surfaces, Inadequate ventilation	ЗН	 Ensure all workers wear appropriate personal proteine equipment (PPE) including heat-resistant gloves, face shields, and fire-resistant cloth. Mark and barricade the area around the furnacion prevent in adthorised access during the preheating process. Install warning signal activating we presence of hourdifaces and the need for caution in the area. Check the funce and its importants for an analyze or wear before starting the preheating process to avoid unexprised failures. Use the funce and its importants for an analyze or wear before starting the preheating process to avoid unexprised failures. Use the funce and its importants for an analyze or wear before starting the preheating process to avoid unexprised failures. Use the funce and thermometers to monitor the temperature of the furnace and other hot surfaces regularly. Implement safe was procedure for lighting and adjusting the furnace, ensuring that all personnel are trained in domow the procedures. Verify that the antilation system is functioning correctly and adequately filters out furnes and exhaust gas. Provide pertable ventilation fans if needed to enhance air circulation and remove contaminants from the nace area. Schedule regular maintenance for the furnace and ventilation system to ensure they are operating efficiently. Develop and communicate an emergency response plan specifically for burns or exposure to furnes, ensuring all workers know the steps to take. Keep flammable materials and combustibles away from the furnace and its surroundings to prevent fire hazards. Designate a trained first aid responder on-site at all times during preheating operations to handle any potential injuries immediately. 	2М
4. Positioning the ladle	Strains and sprains, Falling molten metal	3Н		2M

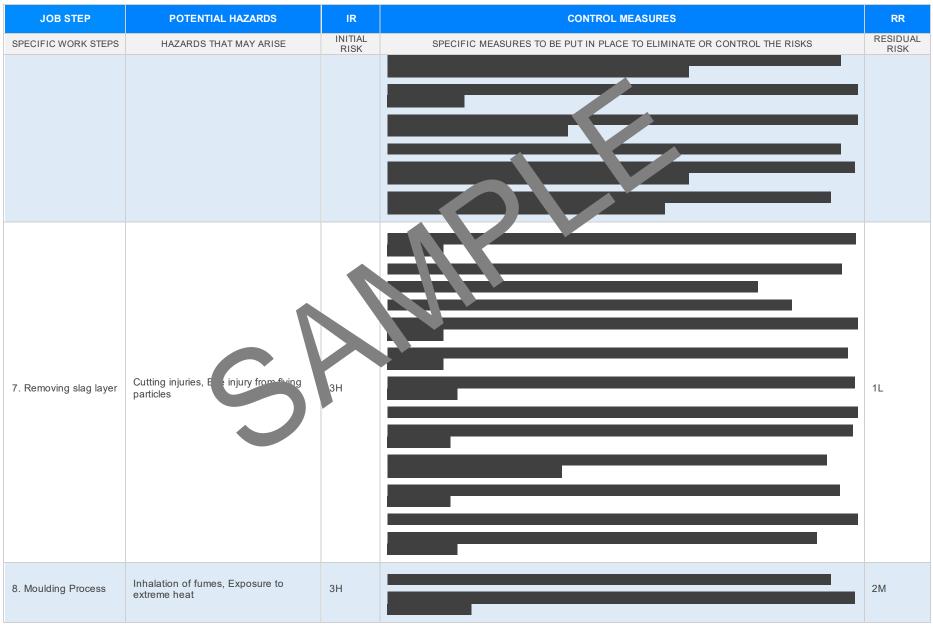




Version 2.5

Date of Issue:

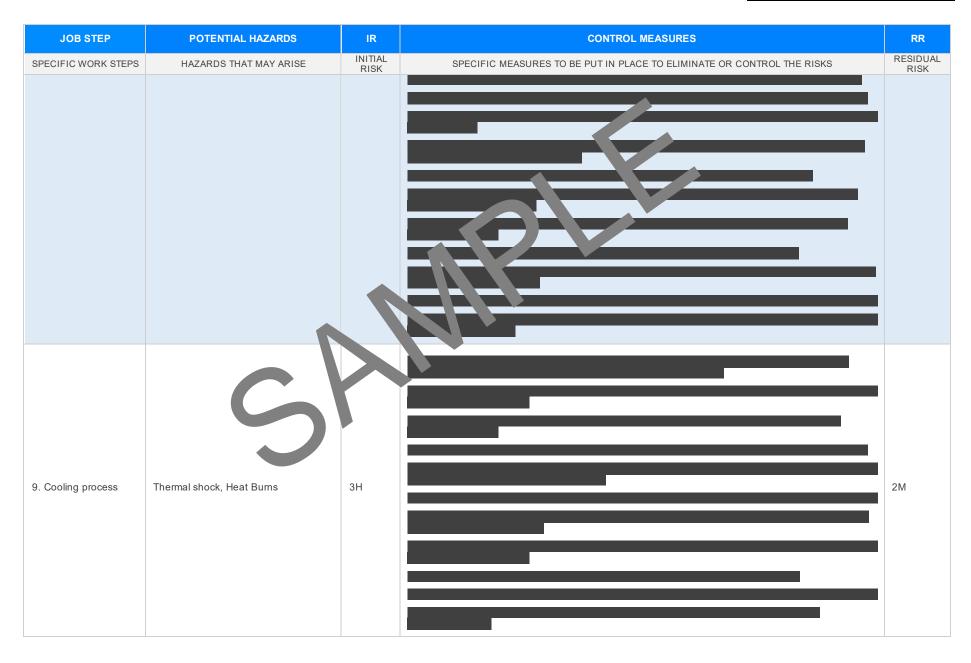




Version 2.5

Date of Issue:





Version 2.5



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
10. Extraction from moulds	Strains and sprains, Cuts from sharp edges	ЗН		1L
11. Inspection and Finishing	Exposure to sharp edges, Slips, trips and falls	2М		1L



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
12. Waste Disposal	Exposure to hot waste, Inhalation of fumes	2М		I I I I I I
13. Cleaning Down Area	Slippery floors, Use of cleaning chemicals	2М		1L

Version 2.5

Date of Issue:



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
14. Completing Documentation	Incorrect documentation take of knowledge			
15. Shutting Down	Unplanned machine start-up, Energy release	2M		I 1L

Version 2.5



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
	5			

EMERGENCY RESPONSE – CALL 000 FOR EMERGENCIES

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

LEGISLATIVE REF							
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCE IN ANY STATISTICAL ARE NOT APPLICABLE							
Queensland & Australian Capital Territory Work Health and Safety Act 2011 Work Health and Safety Regulations 2011 Legislation QLD: <u>https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws</u> Codes of Practice QLD: <u>https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice</u> Legislation ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations</u> Codes of Practice ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</u>	Victoria Occupational Health and Safety Acce004 Occupational Health and Safety Acce004 Legis from VIC: <u>https://www.orfksafe.vic.gov.au/occupational-health-and-safety-act-and- gulations</u> des of mactice VI o <u>sttps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice</u>						
New South Wales Work Health and Safety Act 2011 Work Health and Safety Regulations 2017 Legislation NSW: https://www.safework.nsw.gov.au/legal-obligations/legis/ Codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legis/	Western Australia Work Health and Safety Act 2020 Work Health and Safety Regulations 2022 Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u> Codes of Practice WA: <u>https://www.commerce.wa.gov.au/worksafe/codes-practice</u>						
Northern Territory Work Health and Safety (National Uniform Legislation) Act 201 Work Health and Safety (National Uniform Legislation) Regulations 200 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance</u> orkplatfety-lat Codes of Practice NT: <u>https://worksafe.nt.gov.au/laws-and-compliance</u> orkplatfety-lat	Safe Work Australia Links Law and Regulation (All States): <u>https://www.safeworkaustralia.gov.au/law-and-regulation</u> Model Codes of Practice: <u>https://www.safeworkaustralia.gov.au/resources-publications/model- codes-of-practice</u>						
South Australia Work Health and Safety Act 2012 (SA) Work Health and Safety Regulations 2012 (S. Legislation for SA: <u>https://www.safework.sa.gov.au/resources.gislation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/ve_vplaces/codes-of-practice#COPs</u>	Model Codes of Practice - Managing noise and preventing hearing loss at work - Confined spaces - Labelling of workplace hazardous chemicals - Managing risks of hazardous chemicals in the workplace - Welding processes						
Tasmania Work Health and Safety Act 2012 Work Health and Safety (Transitional and Consequential Provisions) Act 2012 Work Health and Safety Regulations 2012 Work Health and Safety (Transitional) Regulations 2012 Legislation for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations Codes of Practice for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice	 First aid in the workplace Managing the risk of falls at workplaces Hazardous manual tasks Managing the risk of falls in housing construction Managing electrical risks in the workplace Demolition work Excavation work Work health and safety consultation, cooperation and coordination 						
Details of permits, licenses or access required by regulatory bodies (add or delete as required): - Permits from local council - Authorisation to commence work - Any required documents.	 Work freating and safety consultation, cooperation and coordination Managing the work environment and facilities How to manage work health and safety risks Managing risks of plant in the workplace Construction work 						

SIGNATORIES OF THE SAFE WORK METHOD STATEMENT

The signed and dated personnel listed below have cooperated in the consultation and development of this Safe Work Method Statement which has been approved by the Person/s Conducting a Business or Undertaking (PCBU). In signing this Safe Work Method Statement each individual acknowledges and confirms that they have read this SWMS in full, having raised any questions for items on this Safe Work Method Statement that require clarification, and confirms that they are competent, skilled and knowledgeable for the task assigned to them. Every person acknowledges that they have received the relevant training and qualifications where required, before carrying out any work contained in this Safe Work Method Statement. By signing this Safe Work Method Statement each individual agrees to work safely, to follow any safe work instructions which are provided, and agrees to use all Personal Protective Equipment where appropriate.

Worker Name	Signature	Date

SAFE WORK THE S ATEM AT MONITORING AND REVIEW The SWMS must be reviewed regularly to make sure it remain effect. and mu be reviewed (and The SWMS must be monitored regularly for the effectiveness of ensuring hazard controls are revised if necessary) if relevant control measures are revised. The s should be carried out in effective in reducing the risk of incidents, keeping the workplace safe for all personnel. The view consultation with workers (including contractors nay be cted by the operation person responsible for monitoring the effectiveness of the Safe Work Method Statement should ntractors of the SWMS and their health and safety representatives who rep sented that work group at the employ a multi-faceted approach which includes but is not limited to: workplace. 1. Spot Checks. When the SWMS has been revised the PCBU must ensure the all versons involved with the work are 2. Consultation with workers, contractors and sub-contractors. advised that a revision has been made and how they can acce the revised SWMS, including all persons 3. Internal audits on a continual basis who will need to change a work procedure or system as a reof the review are advised of the changes in a way that will enable them to implement their duties ntly with the revised SWMS. All workers that An approach of continuous improvement, promptly recording inconsistencies or deficiencies, will be involved in the work must be provided with the relevant information and instruction that will assist followed up by immediate corrective action and consultation with all relevant personnel ensures them to understand and implement the revised SWMS. that the PCBU is consistently developing ever-improving systems of safe work principles.

REVIEW NUMBER	1	2	3	4	5	6	7
NAME							
INITIALS							
DATE							

SAFE WORK METHOD STATEMENT REVIEW CHECKLIST

This Safe Work Method Statement Review Checklist is to be followed and used upon initial development of the SWMS to help ensure that all steps have been adequately taken before work commences. Think of this document as an internal audit review checklist before commencing work, and may form part of a Toolbox Talk (safety meeting) and may be used as an opportunity for education and training.

ITEMS WHICH MUST BE INCLUDED IN THE SWMS	COMPLETED	COMMENTS
The company details have been entered, including the project name and address.		
All relevant personnel consulted during the development of the SWMS.		
Name, signature, position and date signed of the person approving the SWMS.		
Specific personnel and qualifications, experience is noted in the SWMS.		
Provides a step-by-step process of tasks required to carry out the activity or task.		
Adequate risk assessment of any identified hazards has been completed.	\boxtimes	
Foreseeable hazards are identified and documented for each step.		
Any hazards listed in any site risk assessments have been added to the SN S.	\boxtimes	
SWMS initial risk (IR) column as well as residual risk (RR) column completed.	\square	
Check control measures added to the SWMS are the most effective sour tions.	\boxtimes	
Responsible person is assigned and listed on the spin central procentation of control measures.	\square	
Permit or licenses requirements specified, so in as Hot Work, Electrical Work, Work at Heights etc.	\boxtimes	
SWMS identifies plant and equipment to be	\square	
Details of inspection checks required for any equipment lister are noted on the SWMS.	\square	
Describes any mandatory qualifications, experience, ang or skills required to perform the work.	\boxtimes	
Applicable personal protective equipment is selected on the SWMS.	\square	
Reflects and documents any legislative references and/or Australian Standards.	\square	
Identifies any hazardous substances used with specific control measures in line with any SDS.		
REVIEWED BY	DATE REVIEWED	
SIGNATURE	DATE COMP	LETED