

ACTIVITY: Testing & Tagging - Electrical Cords						SWMS N	lo.:
SAFE WORK METHOD STATEMENT (SWMS) - Part 1							
Company Name:		Address:				ABN:	
Company Contact:		Position:				Phone No.	:
Project Details							
Project:							
Job Address:							
Job Description:						Insert Ph	noto
Relevant workers must be consulted			n of this SWMS:		SWMS Approved by Employer/PCBU/Director/Owner.		
Name: (Include names of workers who were consulted in relation to the	Signature:	Job Title:		Date:	Print Name		
development of this SWMS)					Signature:		
					Date:		
Name of Principal Contractor:		Principal C	Principal Contractor Company Name:				
Date SWMS provided to Principal Contractor:			Principal Contractor Signature:			Date:	
Name of person responsible for ensuring compliance with SWMS:		S: Signature:	Signature:				Date:
	RSION NO: 2 ACTIVITY	Y: Testing & Tagging – E			REVI	EW NO:	DATE:
AUTHORISED BY:			SIGNATURE:				DATE:



SWMS Scope

This SWMS covers safety inspection and testing of electrical cords in the workplace using a Portable Appliance Tester (PAT) with electronic push-button/function key testing functionality. Includes:

- Cord Set an assembly including a plug to connect to general power outlet (GPO), a sheathed flexible cord and an appliance socket. For example a detachable power cord from a low voltage electrical appliance, computer/laptop.
- Cord Extension Set an assembly including a plug to connect to a general power outlet (GPO), a sheathed flexible cord and a cord extension socket.
- Electric Portable Outlet Device (EPOD) examples include power boards with multiple sockets, cable reels with multiple sockets and may be fitted with a Residual Current Device (RCD) or Surge Protection.

Refer to separate specific SWMS for Testing & Tagging of Residual Current Devices (RCD's), and for Class 1 & 2 electrical equipment.

- If ever you are unsure, seek advice from a licenced Engineer/Electrician.

Personal Protective Equipment (PPE)

Ensure all PPE meets relevant Australian Standards. Inspect, and replace PPE as needed

AS 1319-1994 Safety signs for the occupational environment reproduced with permission from SAI Global under licence 1210-c062. Standards may be purchased at http://www.saiglobal.com

Foot Protection	High Visibility	Head Protection	Hand Protection	Protective Clothing	
T)	(X)	12°4		A	
Sun Protection	Broad brimmed hat, UV rated clothing, SPF 30+ sunscreen, tinted safety glasses with adequate UV protection)				

Hazards - What can cause harm?

Risks - What can happen?

Control Measures to Reduce Risk

Job Step: Planning

Hazards include:

- Electricity Energised electrical equipment
- Falls on the same level
- Hazardous Manual Tasks:
 - awkward, twisting, bending positions
 - lifting, carrying, or putting down objects
 - o repetitious movements.

Risks include:

- Flectric shock
- Electrocution
- Falling over on same level causing bruises, sprains, strains, fractures
- Muscular stress
- Musculoskeletal Disorder.

Consultation in relation to hazards and risks. Ensure:

- Consult with the person you are carrying out the work for on the potential hazards and risks associated with the task.
- If represented by an elected health and safety representative, the representative is included in any consultation
- Any other persons on site (trade or otherwise) who is effected by the same matter is consulted and co-operative arrangements are made (e.g. co-ordination or alternative measures)
- Document consultation and action items.

Liaise with site management, ensure operators are provided with site induction:

- Site safety rules
- Amenities
- No-go zones
- Traffic management requirements
- First aid
- Emergency plans including location of fire equipment.

Ensure all persons entering construction site have a valid Construction Induction Card (or equivalent).

Ensure operator is trained and competent in:

- Using the PAT
- The testing method specific for the device being tested.

DOCUMENT NO: 10389	VERSION NO: 2	ACTIVITY: Testing & Tagging – Electrical Cords		REVIEW NO:	DATE:
AUTHORISED BY:			SIGNATURE:		DATE:



		RB: 4A	Person responsible to implement control measures:	RA: 2M
Job Step: Preparation				
Hazards include: - Electricity - Energised electrical equipment - Falls on the same level - Hazardous Manual Tasks:	Risks include: - Electric shock - Electrocution - Falling over on same level causing bruises, sprains, strains, fractures - Muscular stress - Musculoskeletal Disorder.	- Oti - Pr Conduct risk Test (DUT): - Re - Du - Ac - Ne - Co - Co - Co - Re Ensure relev the equipme - Ri: - Te Low risk envi Note: AS/NZ: specific Austi Operators mu Test results a Ensure corre	shting, ventilation, humidity levels, ignition sources/explosive atmost obstacles, hazardous works in close proximity esence of water, overloaded outlets. It assessment to identify any hazards that may be present in the work Check: It assessment to identify any hazards that may be present in the work Check: It assessment to identify any hazards that may be present in the work Check: It assessibility to equipment (housekeeping) It assessive to lift, move or carry equipment on dition/integrity of DUTs (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to lift, move or carry equipment (housekeeping) It assessive to li	rk area as well as the Device Under uipment being tested It located on a construction site. It have been made for clear access to int.
DOCUMENT NO: 10389 VERSION	NO: 2 ACTIVITY: Testing &	Tagging - Electric	al Cords REVIEW	/ NO: DATE:



			V maximum, test current of 10 A V maximum, test current 1.5 times the rated current of the DUT but no	t loca than 25 A
		RB: 4A	Person responsible to implement control measures:	RA: 2M
ob Step: Pre-Operational Inspect	ion			
- Electricity - Energised electrical equipment - Falls on the same level - Hazardous Manual Tasks:	Risks include: - Electric shock - Electrocution - Falling over on same level causing bruises, sprains, strains, fractures - Muscular stress - Musculoskeletal Disorder.	Compare DL Check if the	items left in routes of passage and around equipment. JT details with logbook data to ensure it is correct. DUT will be subject to: Image or excessive wear or use posure to moisture, heat, vibration, chemicals, dust or other causes ubject to harsh conditions may require more frequent inspection and the Portable Appliance Tester (PAT) has been calibrated within the India and clothing are dry Ilibration of PAT is current, <12 months IT has been serviced/maintained as per manufacturer recommendated by displays are functioning correctly Iteries are charged. Pection: Inspect flexible cords by checking: Inspect flexible cords by checking: Inspect flexible cords by checking: Inspect flexible cords or twisted Visually check first to identify if there are any exposed inner deformities If cord appears intact carefully run the cord through your had internal damage — potential for nicks/abrasion. Rexercise external sheaths of cords to ensure they are not cut, worn, twiste inner cords are visible at there are no iron filings in the insulation ensure that conductors remain protected and that no insulation tag at terminals have not spread by connecting plugs and extension co nspect all labels, markings and warning indicators (showing the mag pible and intact. Sinder of DUT by checking: r correct polarity of wiring for re-wireable plugs, connectors and/or is Active/Line/Phase — Brown (superseded Red)	d testing. last 12 months. tions tions hing and rotating the cord cords, protruding wires or obvious nds to feel if there may be any d or damaged whereby the insulation the has been applied rd sockets. eximum load to be connected to the
OOCUMENT NO: 10389 VERSION	I NO: 2 ACTIVITY: Testing 8	k Tagging – Electrica	al Cords REVIEW	NO: DATE:



		 Neutral – Light Blue (superseded Earth – Green & Yellow (supersed Insulated Plugs to ensure there Insulated Insulated Plugs to ensure there Insulated Insulated Plugs to ensure the Insulated Plugs	ded Green) is no damage to the pins and shrouds if f is the rating of the DUT it is connected to d) are in good condition. Continue testing g if the DUT fails the visual inspection DUT that it cannot be used until made sa	if the DUT passes
Job Step: Testing Cords				
Hazards include: - Electricity - Energised electrical equipment - Falls on the same level - Hazardous Manual Tasks: o awkward, twisting, bending positions o lifting, carrying, or putting down objects o repetitious movements	Risks include: - Electric shock - Electrocution - Falling over on same level causing bruises, sprains, strains, fractures - Muscular stress - Musculoskeletal Disorder	General: If an extension lead is required, do not use of a Ensure all work is carried out from ground leads of the Avoid musculoskeletal injury (strain/sproposition work between knee and should be a Position work between knee and should be a Follow traffic management plan. Observe note the Avoid risk of electric shock/electrocution by following a Select the current rate on the PAT that is appropriate Plug the PAT into a power outlet (GPO). Conduct a Supply Mains Test to identify if there is a factor continue testing if the DUT passes the initial test. Do not continue testing if the DUT fails the initial test. Attach "Out of Service" tags and inform owner of the E (such as electrician).	evel. rain) der where possible monitor work position pment where it can cause a trip hazard o-go zones for pedestrians fore testing. the PAT's instructions for testing. for the DUT, i.e. same as the current rate ault with the mains supply. DUT that it cannot be used until made sat	at all times
Job Step: Tagging cords				
Hazards include: - Electricity - Energised electrical equipment - Falls on the same level - Hazardous Manual Tasks:	Risks include: - Electric shock - Electrocution - Falling over on same level causing bruises,	For DUT's that pass testing: Remove tag from the DUT if it has been inspected pre Apply a new tag to the DUT that includes: - Date of testing - Outcome of testing	eviously.	
DOCUMENT NO: 10389 VERSION AUTHORISED BY:	NO: 2 ACTIVITY: Testing &	gging – Electrical Cords	REVIEW NO:	DATE:



Job Step: New Electrical Equipmer Hazards include: - Electricity - Energised electrical equipment - Falls on the same level	Risks include: - Electric shock - Electrocution - Falling over on same	- Have a bright, distinctive surface. Tags may be colour coded to identify: - Month DUT was tested - Duration of interval between testing, e.g. 3, 6, 12, 24 months, etc. If tags do not contain all of the information required, the rest of the information must be recorded in the Site Electrical Register. If tags are not used the DUT must be marked / labelled so that record of testing in the Register can clearly identify the relevant equipment. Prepare/update Site Electrical Equipment Register. Include in the Register: - The date of the inspection - The due date for the next inspection - The plant number or inspection number of the DUT - The results of the tests and inspections - Details of any repair/maintenance work required as a result of the inspection - The licence/certificate number, printed name and signature of the trained competent person who carried out the inspections and tests. RB: 1L Person responsible to implement control measures: RA: 1L Brand new electrical equipment does not have to be tested before first use. New electrical equipment should be visually checked before first use to ensure it has not been damaged during transport, delivery, and installation or commissioning. The date the new equipment in placed into service should be recorded and may be fitted with a tag stating:			
o repetitious movements.	Disorder.	Ensure that all tags: - Are durable and water resistant - Are non-metallic - Are self-adhesive or positively secured - Cannot be re-used			
 awkward, twisting, bending positions lifting, carrying, or putting down objects 	sprains, strains, fractures - Muscular stress - Musculoskeletal	 Due date for the next inspection Plant number or inspection number of the DUT Licence/certificate number, printed name of the licensed electrician or trained competent person who carried out the test and filled in the tag. 			

DOCUMENT NO: 10389	VERSION NO: 2	ACTIVITY: Testing & Tagging – Electrical Cords		REVIEW NO:	DATE:
AUTHORISED BY:			SIGNATURE:		DATE:



fractures - Muscular stress - Musculoskeletal Disorder.	 That it has not been tested. A suitably trained in house person can do fitting a "New to Service" tag. A system can be put in place that all new electrical equipment can be included in the next round of electrical testing to be carried out at the workplace. Second hand electrical equipment that is purchased should be tested before being put into service. RB: 1L Person responsible to implement control measures: 				
Risks include: - Electric shock - Electrocution - Falling over on same level causing bruises, sprains, strains, fractures	Check that the PAT has not been damaged during use Ensure the PAT is packed away and stored in its supplied container/packaging to avoid damage. Schedule annual calibration of the PAT.				
- Muscular stress.	RB: 3H	Person responsible to implement control measures:	RA: 2M		
	- Muscular stress - Musculoskeletal Disorder. Risks include: - Electric shock - Electrocution - Falling over on same level causing bruises, sprains, strains, fractures	- Muscular stress - Musculoskeletal Disorder. Risks include: - Electric shock - Electrocution - Falling over on same level causing bruises, sprains, strains, fractures - Muscular stress. A suitably train A system can be carried out at the second hand of RB: 1L Check that the second hand of RB: 1L	- Muscular stress - Musculoskeletal Disorder. A suitably trained in house person can do fitting a "New to Service" tag. A system can be put in place that all new electrical equipment can be included in the next round of carried out at the workplace. Second hand electrical equipment that is purchased should be tested before being put into service RB: 1L		

Emergency Procedures / Emergency Response

Develop and implement an emergency response plan for the site. Include:

- Assembly points
- Communication
- Consultation methods
- Responsible persons
- Emergency contacts names and phone numbers
- First aid equipment
- Fire Extinguishers accessible & serviced.

Develop site-specific rescue procedures/SWMS as required.

Ensure there is a First Aider present that is trained and competent in first aid for electrical incidents:

- Evacuate area
- Correct method for approaching victim when there is live electricity present
- CPR
- Treatment for shock.

Ensure operators are aware of emergency response plans and procedures.

Ensure operators are trained and competent in the use of fire fighting equipment where required.

Person/s responsible to implement and follow emergency procedures and control measures:

Review

DOCUMENT NO: 10389	VERSION NO: 2			REVIEW NO:	DATE:	
AUTHORISED BY:		SIGNATURE:			DATE:	



To ensure controls are implemented and monitored effectively:

- Toolbox /pre-work meetings will be undertaken
- Relevant persons will be consulted on hazards and contents of SWMS, work plans and other applicable information
- Control measures will be monitored throughout works:
 - Spot checks
 - Consultation
 - Scheduled audits
- Corrective actions will be recorded and rectified in a timely manner SWMS will be reviewed and updated accordingly (in consultation with relevant persons)

Ensure all controls are reviewed as per the following:

- If controls fail to reduce risk adequately
- When changes to the workplace or work activity occur that create new / different risks where controls may no longer be effective
- New hazards identified
- After an incident involving work activities relevant to this SWMS
- During consultation with relevant persons indicate review is needed
- A Health and Safety Representative (HSR) requests a review in line with the requirements of the legislation.

Person/s responsible to implement and follow monitoring and review procedures and control measures:

DOCUMENT NO: 10389	VERSION NO: 2	ACTIVITY: Testing & Tagging – Electrical Cords		REVIEW NO:	DATE:
AUTHORISED BY:			SIGNATURE:		DATE:



SAFE WORK METHOD STATEMEN	T - Part 2				
Formal Training, Licences required for worker	s undertaking this task:	Duties of workers undertaking this task:	Details of Supervisory Arrangements for workers undertaking this task:		
Example: - Licence to Perform High Risk Work (operating certain plant, equipment) - TAFE or other recognised training organisation - Construction Induction Card (or equivalent)		Example: (Name): Operator (Name: Clean-up crew (Name): Supervisor Etc.	Example: - Suitably qualified supervisors for job - Direct on-site supervision - Remote site – communication systems/ schedule - Audits - Spot Checks, etc Reporting systems		
Details of: regulatory permits/licenses Engineering Details/Certificates/WorkCover Approvals:	Relevant Legislation, Note: Retain only the I		your state of operation for this SWMS		
Example: - Local council permits - Building Approvals - EPA approvals/permits - Certain plant to be registered with State Authority PPE to comply with relevant Australian Standards Plant/Tools/Equipment: (List plant and equipment to be used on the job.) Portable Appliance Tester (PAT) (Make & Model)			 Victoria Occupational Health & Safety Act 2004 Occupational Health & Safety Regulations 2007 Codes of Practice: Western Australia Occupational Health & Safety Act 1984 Occupational Health & Safety Regulations 1996 Codes of Practice: Australian Standards: AS/NZS 3760:2010 In-Service safety inspection and testing of electrical equipmer AS/NZS 3012:2010 Electrical installations - Construction and demolition sites AS/NZS 3017:2007 Electrical installations - Testing and inspection guidelines AS/NZS 60335.1:2011 Household and similar electrical appliances - Safety - General requirements (plus amendment 2012) AS/NZS 4501:2008 (set) Occupational Protective Clothing AS/NZS 60745.1:2009 Hand Held Motor Operated Electric Tools. Safety – General Requirements AS 4115:1993 Hand torque tools 		
Reference Documents	4411 4 50 4 44 4 5 4 4 5				
Work Health & Safety Regulations (2011): Chapte Safe Work Australia (2011): Code of Practice: May Wavecom Instruments: Portable Appliance Tester	anaging Electrical Risks in th		ergised electrical work		

DOCUMENT NO: 10389	VERSION NO: 2	ACTIVITY: Testing & Tagging – Electrical Cords		REVIEW NO:	DATE:
AUTHORISED BY:		SI	IGNATURE:		DATE:



SAFE WORK METHOD STATEMENT - Part 3

This SWMS has been developed in consultation and cooperation with *employee/workers* and relevant *Employer/Persons Conducting Business or Undertaking (PCBU)*. I have read the above SWMS and I understand its contents. I confirm that I have the skills and training, including relevant certification to conduct the task as described. I agree to comply with safety requirements within this SWMS including risk control measures, safe work instructions and Personal Protective Equipment described.

within this ovivior including risk control includings, safe work instructions and i crosmal including the control including risk control												
Overall Risk Rating after Controls			1 Low			2 Moderate 3 Hig		3 High	4 Acute		4 Acute	
Employee/Worker Name		Job	Job Role / Position		Signature		Date Time		Employer/	Employer/PCBU/ Supervisor		
Daview No.	1		2	2		4		5		6	7	8
Review No.	1			3		4		ົວ		0	1	0
Name												
Initial												
Date												
					HIERAR	CHY OF CONT	ROLS					
ELIMINATION - Risk will be eliminated where possible		>	ENGINI remains	ITUTION ISOL EERING - Who s, one/combina strols will be us	ere risk ation of		remains,	TRATIVE - V administrativ will be used.	e controls		equipmen still remains far as reason	TAL PROTECTIVE T (PPE) - Where risk , it will be reduced as nably practicable with se of PPE.

DOCUMENT NO: 10389	VERSION NO: 2	ACTIVITY: Testing & Tagging – Electrical Cords		REVIEW NO:	DATE:
AUTHORISED BY:			SIGNATURE:		DATE:



RISK ASSESSMENT MATRIX

HB 436:2004 Risk Management Guidelines Tables 6.3 – 6.8 reproduced with permission from SAI Global under licence 1210-c062. Standards may be purchased at http://www.saiglobal.com References: Safe Work Australia (2011) - Code of Practice: How to Manage Work Health and Safety Risks, AS/NZS 31000 -2009 Risk Management Principles and Guidelines.

Step 1: Determine Likelihood What is the possibility that the effect will occur?							
	Criteria	Description					
Almost certain	Expected in most circumstances.	Effect is a common result					
Likely	Will probably occur in most circumstances.	Effect is known to have occurred at this site or it has happened					
Possible	Might occur at some time	Effect could occur at the site or I've heard of it happening					
Unlikely	Could occur at some time	Effect is not likely to occur at the site or I have not heard of it happening					
Rare	May occur only in exceptional circumstances	Effect is practically impossible					

ICU	eath and Salety Risks, ASINZS 31000 -2009 Risk Management Frinciples and Guidelines.							
	Step 2: Determine Consequence							
	What will be the expected effect?							
	Level of Effect: Example of each level:							
	Insignificant/Acceptable	No effect – or so minor that effect is acceptable						
	Minor	First aid treatment only; spillage contained at site.						
	Moderate	Medical treatment; spillage contained but with outside help.						
	Major	Extensive injuries; loss of production						
	Catastrophic	Death; toxic release of chemicals						

Step 3 Determine the risk score									
Consequence									
Likelihood	Insignificant	Minor Moderate		Major	Catastrophic				
Almost certain	3 High	3 High	4 Acute	4 Acute	4 Acute				
Likely	2 Medium	3 High	3 High	4 Acute	4 Acute				
Possible	1 Low	2 Medium	3 High	4 Acute	4 Acute				
Unlikely	1 Low	1 Low	2 Medium	3 High	4 Acute				
Rare	1 Low	1 Low	2 Medium	3 High	3 High				

only be used for sompanion and to ongenion discussion.					
Score	Action				
4 A: Acute	ACT NOW – Urgent - does something about the risks immediately. Requires immediate attention.				
3 H: High	Highest management decision is required urgently.				
2 M: Moderate	Follow management instructions.				
1 L: Low	OK for now. Record and review regularly, and if any equipment/people/materials/work processes or procedures change.				

Step 4 Record risk score on worksheet (Note – Risk scores have no absolute value and should

only be used for comparison and to engender discussion.)

DOCUMENT NO: 10389	VERSION NO: 2	ACTIVITY: Testing & Tagging – Electrical Cords		REVIEW NO:	DATE:	
AUTHORISED BY:		SIGNATURE:			DATE:	