

## Battery Replacement Procedures | SAFE WORK METHOD STATEMENT (SWMS)

### TASK OR ACTIVITY: Battery Replacement Procedures

|                   |        |        |
|-------------------|--------|--------|
| Business Name:    | ABN:   | SWMS#  |
| Business Address: |        |        |
| Contact Person:   | Phone: | Email: |

### THIS SAFE WORK METHOD STATEMENT IS APPROVED BY THE PCBU OF THE PROJECT

Under the Work Health and Safety Regulation (WHS Regulation), a person conducting a business or undertaking (PCBU) is required to ensure that a safe work method statement (SWMS) is prepared before the proposed work starts.

|   |        |        |
|---|--------|--------|
| Full Name:  |        |        |
| Signature:  | Title: | Date:  |
| Details of the person(s) responsible for ensuring implementation, monitoring and compliance of the SWMS as well as reviews and modifications of the SWMS. |        |        |
| Full Name:  | Title: | Phone: |

### ALL PERSONNEL PARTICIPATING IN ANY ACTIVITY ON THIS SWMS MUST HAVE THE FOLLOWING COMMUNICATED

Safety meetings or toolbox talks will be scheduled in accordance with legislative requirements to first identify any site hazards, then to communicate those hazards and then to further take steps to either eliminate or control each hazard.

If an incident or a near miss occurs, all work must stop immediately. 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.

### NAME OF ALL RELEVANT PERSONNEL WHO HAVE BEEN CONSULTED AND COMMUNICATED TO IN THE DEVELOPMENT AND APPROVAL OF THIS SWMS

## CLIENT OR PRINCIPAL CONTRACTOR DETAILS

|  |                |
|--|----------------|
| Client:                                | SCOPE OF WORKS |
| Project Name:                          |                |
| Project Address:                       |                |
| Project Manager:                       |                |
| Contact Phone:                         |                |
| Date SWMS supplied to Project Manager: |                |

## ANY HIGH-RISK CONSTRUCTION WORK BEING CARRIED OUT

|  |  |
|--|--|
| <input type="checkbox"/> involves a risk of a person falling more than 2 meters  | <input type="checkbox"/> is carried out on or near pressurised gas mains or piping                                     |
| <input type="checkbox"/> is carried out on a telecommunication tower   | <input type="checkbox"/> is carried out on or near chemical, fuel or refrigerant lines                                 |
| <input type="checkbox"/> involves demolition of an element of a structure that is load-bearing                           | <input type="checkbox"/> is carried out on or near energised electrical installations or services                      |
| <input type="checkbox"/> involves demolition of an element related to the physical integrity of a structure              | <input type="checkbox"/> is carried out in an area that may have a contaminated or flammable atmosphere                |
| <input type="checkbox"/> involves, or is likely to involve, disturbing asbestos  | <input type="checkbox"/> involves tilt-up or precast concrete  |
| <input type="checkbox"/> involves structural alteration or repair that requires temporary support to prevent collapse    | <input type="checkbox"/> is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor |
| <input type="checkbox"/> is carried out in or near a confined space  | <input type="checkbox"/> is carried out in an area of a workplace where there is any movement of powered mobile plant  |
| <input type="checkbox"/> is carried out in/near a shaft or trench deeper than 1.5m or tunnel involving use of explosives | <input type="checkbox"/> is carried out in areas with artificial extremes of temperature.                              |
| <input type="checkbox"/> is carried out in or near water or other liquid that involves a risk of drowning.               | <input type="checkbox"/> involves diving work.   |

## ANY HIGH-RISK MACHINERY OR EQUIPMENT NEARBY

## RISK MATRIX

| LIKELIHOOD  | INSIGNIFICANT | MINOR         | MODERATE      | MAJOR      | CATASTROPHIC | SCORE          | ACTION                            | HEIRARCHY OF CONTROLS                              |
|---|---------------|---------------|---------------|------------|--------------|----------------|-----------------------------------|--|
| ALMOST CERTAIN  | 3<br>HIGH     | 3<br>HIGH     | 4<br>ACUTE    | 4<br>ACUTE | 4<br>ACUTE   |                |                                   | <b>Elimination</b><br>Remove the hazard.           |
| LIKELY  | 2<br>MODERATE | 3<br>HIGH     | 3<br>HIGH     | 4<br>ACUTE | 4<br>ACUTE   | 4A<br>ACUTE    | DO NOT PROCEED                    | <b>Substitution</b><br>Replace the hazard.         |
| POSSIBLE  | 1<br>LOW      | 2<br>MODERATE | 3<br>HIGH     | 4<br>ACUTE | 4<br>ACUTE   | 3H<br>HIGH     | Review before work starts.        | <b>Isolation</b><br>Isolate People from the hazard |
| UNLIKELY  | 1<br>LOW      | 1<br>LOW      | 2<br>MODERATE | 3<br>HIGH  | 4<br>ACUTE   | 2M<br>MODERATE | Ensure control measures in place. | <b>Engineering</b><br>Isolate the hazard.          |
| RARE  | 1<br>LOW      | 1<br>LOW      | 2<br>MODERATE | 3<br>HIGH  | 3<br>HIGH    | 1L<br>LOW      | Monitor and keep records          | <b>Administrative</b><br>Change the work.          |
| <b>Notes on Hierarchy of Controls:</b> Elimination methods are the most effective and preferred when controlling a hazard. Substitution is the second most effective method of controlling a hazard. Engineering by isolation is the third most effective, while Administrative Controls by changing the work is the fourth most effective method. PPE (Personal Protective Equipment) is the least effective method. |               |               |               |            |              |                |                                   | <b>PPE</b>   |

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Select the appropriate PPE above suitable for the equipment used or the job task being performed (if applicable).

| FOOT PROTECTION  | HAND PROTECTION  | HEAD PROTECTION  | HEARING PROTECTION   | EYE PROTECTION   | RESPIRATORY PROTECTION  | FACE PROTECTION  | HIGH-VIS CLOTHING  | PROTECTIVE CLOTHING  | FALL PROTECTION  | SUN PROTECTION   | HAIR/JEWELLERY SECURED   |
|--|--|--|--|--|---|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |
| <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>  | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   |

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      | Mishandling of tools, Electric shock | 3H           | <ul style="list-style-type: none"> <li>- Conduct a pre-work risk assessment to identify potential hazards.</li> <li>- Provide personal protective equipment (PPE) such as insulated gloves, safety glasses, and appropriate footwear.</li> <li>- Ensure all personnel are trained in safe battery handling and replacement procedures.</li> <li>- Use insulated tools to reduce the risk of electric shock.</li> <li>- De-energise the electrical system and confirm it is safe before starting work.</li> <li>- Clearly mark the work area with warning signs to alert others of potential danger.</li> <li>- Assign a competent person to supervise the battery replacement process.</li> <li>- Implement a lockout/tagout (LOTO) procedure to ensure the system remains de-energised during the work.</li> <li>- Maintain clean and uncluttered workspaces to prevent mishandling of tools.</li> <li>- Inspect tools and equipment for damage or defects before use.</li> <li>- Establish emergency procedures, including first aid measures, in case of an incident.</li> <li>- Ensure proper lifting techniques or mechanical aids are used to handle heavy batteries safely.</li> <li>- Dispose of old batteries following environmental regulations and company procedures.</li> </ul>  | 1L            |
| 2. Inspection       | Electrical sparks, Faulty equipment  | 2M           | <ul style="list-style-type: none"> <li>- Conduct a pre-work safety briefing to communicate potential hazards and procedures.</li> <li>- Ensure all personnel conducting the inspection are adequately trained in electrical safety protocols.</li> <li>- Wear appropriate personal protective equipment (PPE) including insulated gloves, face shields, and protective clothing.</li> <li>- Use insulated tools to prevent accidental contact with electrical components.</li> <li>- Verify that the battery is disconnected from any active sources of electricity before beginning the inspection.</li> <li>- Implement a lockout/tagout system to ensure the battery remains de-energised during the inspection process.</li> <li>- Inspect the condition of tools and equipment before use to ensure they are free from faults or damage.</li> <li>- Communicate and establish clear zones where only authorised personnel may enter to avoid accidental exposure to electrical hazards.</li> <li>- Check for signs of corrosion, leakage, or swelling on the battery as these indicators could increase risk.</li> <li>- Use non-conductive mats or barriers when working within close proximity to live electrical parts.</li> <li>- Ensure there is adequate lighting to allow clear visibility of the work area and the battery itself.</li> </ul> | 1L            |

|                |    |  |
|----------------|----|--|
|                |    | <ul style="list-style-type: none"> <li>- Keep a fire extinguisher rated for electrical fires nearby and ensure proper use.</li> </ul>  |
| Electric shock | 2M | <ul style="list-style-type: none"> <li>- Ensure appropriate PPE is worn, including acid-resistant gloves,</li> <li>- Use insulated tools to prevent accidental contact with live electrical components.</li> <li>- Confirm the vehicle or equipment is turned off and keys are removed.</li> <li>- Disconnect the negative terminal first to reduce the risk of short circuits.</li> <li>- Inspect the battery for any visible damage or leaks before attempting work.</li> <li>- Place an absorbent mat or similar material under the battery to contain any spills.</li> <li>- Avoid smoking or using open flames near the battery area to prevent ignition of fumes.</li> <li>- Use proper lifting techniques or mechanical aids when handling heavy batteries.</li> <li>- Keep a neutralising agent, such as baking soda, nearby to address acid spills.</li> <li>- Store or connect cables securely away from the battery terminals.</li> <li>- Regularly inspect and maintain tools and equipment to ensure safety.</li> <li>- Provide training for all personnel on safe battery handling and emergency procedures.</li> <li>- Have a first-aid kit readily available and ensure staff are trained in basic first aid.</li> </ul> |

| 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. Preparing new battery  | Chemical exposure, Incorrectly connecting terminals | 3H           |  | 2M            |
| 6. Installing New Battery | Incorrect installation, Electric shock              | 2M           |  | 1L            |

SAMPLE

| 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 |
|                            |   |              |  |               |
| 7. Connect to power supply | Power surge, Equipment damage                   | 2M           |  | 1L            |
| 8. Testing new battery     | Equipment failure, Injury from faulty equipment | 2M           |  | 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 |
|  |   |              |  |               |
| 9. Finishing up/Cleaning the workplace | Slip, trip and fall hazards, Leftover chemical hazard           | 3H           |  | 2M            |
| 10. Waste Management                   | Incorrect disposal of old battery, Fire hazard from old battery | 3H           |  | 1L            |



ment, Incomplete

1E

**SAMPLE**

Repeating this to 3H

| 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. Reporting any issues             | Failure in communication, Missing vital information                        | 1L           | <div>SAMPLE</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> | 1L            |
| 15. Conducting final risk assessment | Overlooking of minor factors, Misjudging the severity of remaining hazards | 3H           | <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div>   | 1L            |

**SAMPLE**

## 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 REFERENCES

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCE IN ANY STATE THAT ARE NOT APPLICABLE

### Queensland & Australian Capital Territory

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

Legislation QLD: <https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws>

Codes of Practice QLD: <https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice>

Legislation ACT: <https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations>

Codes of Practice ACT: <https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice>

### Victoria

Occupational Health and Safety Act 2004

Occupational Health and Safety Regulations 2017

Legislation VIC: <https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-regulations>

Codes of Practice VIC: <https://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice>

### 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/legislation>

Codes of Practice NSW: <https://www.safework.nsw.gov.au/resource-library/codes-of-practice>

### Western Australia

Work Health and Safety Act 2020

Work Health and Safety Regulations 2022

Legislation Western Australia: <https://www.commerce.wa.gov.au/worksafe/legislation>

Codes of Practice WA: <https://www.commerce.wa.gov.au/worksafe/codes-practice>

### Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulations 2012

Legislation NT: <https://www.worksafe.nt.gov.au/laws-and-compliance/workplace-safety-laws>

Codes of Practice NT: <https://www.worksafe.nt.gov.au/laws-and-compliance/codes-of-practice>

### Safe Work Australia Links

Law and Regulation (All States): <https://www.safeworkaustralia.gov.au/law-and-regulation>

Model Codes of Practice: <https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice>

### 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
- 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
- Managing the work environment and facilities
- How to manage work health and safety risks
- Managing risks of plant in the workplace
- Construction work

### South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (SA)

Legislation for SA: <https://www.safework.sa.gov.au/resources/legislation>

Codes of Practice for SA: <https://www.safework.sa.gov.au/workplaces/codes-of-practice#COPs>

### 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://www.worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations>

Codes of Practice for TAS: <https://www.worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice>

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.

## 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 METHOD STATEMENT MONITORING AND REVIEW

**The SWMS must be reviewed regularly** to make sure it remains effective and must be reviewed (and revised if necessary) if relevant control measures are revised. The review must be carried out in consultation with workers (including contractors and sub-contractors) who may be affected by the operation of the SWMS and their health and safety representatives who represented that work group at the workplace.

When the SWMS has been revised the PCBU must ensure that all persons involved with the work are advised that a revision has been made and how they can access the revised SWMS, including all persons who will need to change a work procedure or system as a result of the review are advised of the changes in a way that will enable them to implement their duties consistently with the revised SWMS. All workers that will be involved in the work must be provided with the relevant information and instruction that will assist them to understand and implement the revised SWMS.

**The SWMS must be monitored regularly** for the effectiveness of ensuring hazard controls are effective in reducing the risk of incidents, keeping the workplace safe for all personnel. The person responsible for monitoring the effectiveness of the Safe Work Method Statement should employ a multi-faceted approach which includes but is not limited to:

1. Spot Checks.
2. Consultation with workers, contractors and sub-contractors.
3. Internal audits on a continual basis.

An approach of continuous improvement, promptly recording inconsistencies or deficiencies, followed up by immediate corrective action and consultation with all relevant personnel ensures 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.                       | <input checked="" type="checkbox"/> |          |
| All relevant personnel consulted during the development of the SWMS.                                 | <input checked="" type="checkbox"/> |          |
| Name, signature, position and date signed of the person approving the SWMS.                          | <input type="checkbox"/>            |          |
| Specific personnel and qualifications, experience is noted in the SWMS.                              | <input checked="" type="checkbox"/> |          |
| Provides a step-by-step process of tasks required to carry out the activity or task.                 | <input checked="" type="checkbox"/> |          |
| Adequate risk assessment of any identified hazards has been completed.                               | <input checked="" type="checkbox"/> |          |
| Foreseeable hazards are identified and documented for each step.                                     | <input checked="" type="checkbox"/> |          |
| Any hazards listed in any site risk assessments have been added to the SWMS.                         | <input checked="" type="checkbox"/> |          |
| SWMS initial risk (IR) column as well as residual risk (RR) column completed.                        | <input checked="" type="checkbox"/> |          |
| Check control measures added to the SWMS are the most effective solutions.                           | <input checked="" type="checkbox"/> |          |
| Responsible person is assigned and listed on the SWMS for the implementation of control measures.    | <input checked="" type="checkbox"/> |          |
| Permit or licenses requirements specified, such as Hot Work, Electrical Work, Work at Heights etc.   | <input checked="" type="checkbox"/> |          |
| SWMS identifies plant and equipment to be used.  | <input checked="" type="checkbox"/> |          |
| Details of inspection checks required for any equipment listed are noted on the SWMS.                | <input checked="" type="checkbox"/> |          |
| Describes any mandatory qualifications, experience, training or skills required to perform the work. | <input checked="" type="checkbox"/> |          |
| Applicable personal protective equipment is selected on the SWMS.                                    | <input checked="" type="checkbox"/> |          |
| Reflects and documents any legislative references and/or Australian Standards.                       | <input checked="" type="checkbox"/> |          |
| Identifies any hazardous substances used with specific control measures in line with any SDS.        | <input checked="" type="checkbox"/> |          |
|  |                                     |          |
| REVIEWED BY  |                                     |          |
| SIGNATURE  | DATE REVIEWED                       |          |
|  | DATE COMPLETED                      |          |