



Lockout and Tagout Works Procedure

1. Purpose

The WA Country Health Service (WACHS) is committed to providing and maintaining a safe work environment. Under the [Work Health and Safety Act 2020](#) (WA), WACHS has a primary duty of care to ensure, so far as is reasonably practicable, the health and safety of workers (while those workers are at work), as well as to ensure that other persons are not put at risk from work carried out as part of WACHS's business or undertaking.

The purpose of this Lockout and Tagout (LOTO) procedure is to mitigate the risk of personal injury or damage to plant, equipment and the environment.

Plant and equipment isolation is required during maintenance, repairs, and inspections to ensure the safety of workers. It prevents startups which may injure workers, damage equipment or unintentionally release energy or a product. Isolation is also necessary when machinery malfunctions or during emergency situations to protect workers and maintain a safe work environment.

2. Procedure

This procedure applies to all sites where workers are required to isolate plant or equipment including testing of the equipment prior to handing it back to operational status. This procedure has been developed in accordance with the Department of Energy, Mines, Industry Regulation and Safety (DEMIRS)/WorkSafe [Managing risks of plant in the workplace: Code of practice](#) and DEMIRS/Department of Commerce [Guidance note - Isolation of plant](#).

This procedure does not include commissioning of new plant or equipment. There may be occasions and tasks where it is not possible or practical to perform a regular isolation procedure to protect workers performing a task. This may be due to factors such as the nature of the work to be performed, the remoteness of the isolation points or other hazards that may be created by performing isolation. In these cases, a Job Hazard Analysis must be developed using a team of people to assess the risks and determine appropriate controls to provide an appropriate level of protection. Where the identified risk cannot be reduced to a tolerable level of risk, the task should not be performed and escalated to the relevant authority for appropriate advice and direction.

2.1 Risk Management

Risk assessments are completed by the worker and nominated site delegate of the workplace by completing a Take 5, [Job Hazard Analysis Form](#) (JHA) and/or [Safe Work Method Statement Form](#) (SWMS) and follow the [Job Hazard Analysis Procedure](#) or [Safe Work Method Statement Procedure](#) to ensure all hazards are identified and isolation procedures are written and followed to control identified hazards.

The risks associated with isolation are to be controlled by hierarchy of control. It is important to constantly monitor and review control measures to ensure they continue to prevent or control exposure to hazardous acts or conditions.

Before commencing the isolation process, all involved workers should be briefed on the processes to be followed and the need to observe all safety requirements. If the scope of work changes or the efficiency of an existing control is reduced, work is to be stopped immediately, a review conducted, and necessary changes made to the JHA and associated work practices. The work can recommence once this process has been completed.

All JHA's completed for the tasks must be held at the job whilst the task is being undertaken. Once the job has been finalised the JHA must be filed as per the local area procedures.

For additional guidance refer to WorkSafe [Managing risks of plant in the workplace: Code of practice](#).

2.2 Documentation

Prior to commencing an isolation all documentation must be obtained and relevant permission approved.

LOTO Isolation Register

The purpose of the register is to provide management with an overview of all isolations being conducted within their areas of responsibility.

Risk Assessment for the isolation being conducted

The risk assessment could be in the form of a [SWMS](#) or [JHA](#), or similar. The purpose of the risk assessment is to:

- assist the Nominated Site Delegate in determining hazards associated with the isolation/s being applied.
- enable the Nominated Site Delegate (PCBU) to make informed decisions to maintain the safety of the workers and avoid events which have the potential to negatively impact.

Note: The isolation process can be included in the same risk assessment as the scope of work that necessitates the isolation.

Completed Documentation

All completed documentation must be maintained and retained as per the WACHS [Corporate Recordkeeping Compliance Policy](#).

2.3 Selecting Appropriate Equipment

Lockout Devices

A variety of devices are available for locking out energy sources and other hazards that could pose a risk to people. The chosen device should be thoroughly thought out to ensure its suitable for the equipment and environment it is being used in and can guarantee an isolation. Devices could include:

- **Switches with Built-in Locks:** designed to prevent activation when locked

- **Lockouts for Circuit Breakers:** specialised devices to lock circuit breakers in the off position
- **Lockouts for Fuses:** secure fuses to prevent electrical flow
- **Valve Lockouts:** for all types of valves, including gate, ball, and butterfly valves
- **Chains:** used with padlocks to secure larger machinery or components
- **Safety Lockout Jaws (Hasps):** allow multiple padlocks to secure a single energy source
- **Safety Padlocks:** robust and durable padlocks for individual or multiple use
- **Dust and Waterproof Lockout Devices:** designed for use in challenging environments to prevent failure.

Workers should note:

- Electrical isolations must comply with AS/NZS 4836:2023 – Safe working on or near low-voltage electrical installations and equipment. The standards can be accessed via the [WACHS Library](#).
- Only devices that incorporate a lock or can accommodate one or more padlocks are suitable for lockout purposes. If multiple people are working on the same plant, each person must attach their own lock to prevent the isolator from being opened before all locks have been removed.
- All required isolation points must be identified to ensure energy cannot be restored while someone is still working on the plant or in the affected area.
- Each person working on the plant or in the affected area **must** have their own lock, key and tag. There should be no duplicate key available for any lock, except a secured not readily available master or duplicate key for use in an emergency.
- The one key to each person's lock must be held only by that person, who is responsible for both locking and unlocking their lockout device.
- A tag is **NOT** in itself an effective isolation device and must not be used on its own

Barrier Tapes

Barrier tape is not a positive form of isolation. Tapes are used to control or restrict entry to an area which contains hazards. Barriers on WACHS sites may include:

- caution tape
- danger tape or;
- for isolations required for extended period, consider robust barrier options such as:
 - scissor barrier
 - flexible plastic barriers
 - bunting mesh barricades
 - permanently erected barriers.

Barrier tapes shall be removed when all hazards/faults have been rectified and the area is safe for entry. All removed barrier tape is to be disposed of correctly.

Caution Tape



Caution tape is yellow and black and is used to cordon off an area. Its purpose is to control access to a particular area that contains hazards and can be erected by any person.

Where a worker identifies a need to erect caution tape, that person shall report the erection of the barrier to their immediate supervisor.

All access points to such an area must have a barricade tag attached to the caution tape. Workers may pass through caution tape only after approval from the person listed on the barricade tag or their delegate.

Those responsible for controlling access to cordoned off areas must consider the following, but not limited to:

- workers may pass through caution tape only after approval from the person listed on the barricade tag or their delegate
- does the person requesting entry need to enter?
- will additional workers cause congestion or create other hazards?
- have they been made aware of the hazards in the area?
- do those assigned to work within the area need to be made aware of other people entering?

Danger Tape



Danger tape is used to cordon off an area which contains uncontrolled higher risk hazards. Its purpose is to fully restrict access to a particular area and can be erected by any person. All access points to such an area must have a barricade tag attached to the danger tape.

No person may pass through danger tape. Danger tape indicates strictly no entry to an area. It is acknowledged that workers may have to enter such areas in order to control hazards. Where access to such an area is required, caution tape shall be erected prior to the danger tape being removed. Only then may workers enter such an area, and only after assessing the hazard risks and controls, and obtaining verbal authorisation from the person in control or their delegate.

Tags

Tags are not isolation devices; they serve as information tools for others at the workplace. For isolation, locks should be used. However, when using a lock, it is good practice to include a tag that explains why the lockout is in place. Below are some commonly used warning tags:

Information Tag



Information tags help preserve the integrity of the surrounded area by identifying the purpose and basis for the barricade. Safety barricades are built to keep individuals away from hazardous or dangerous areas and establish a perimeter. Barricade tags provide vital information and specific requirements when entering as well as exiting a regulated or potentially dangerous area.

Out of Service Tags



Purpose of an Out of Service tag:

- The purpose of an Out Of Service tag is to advise workers that the plant or equipment has been identified as faulty or unsafe and is not to be operated, and that the equipment may not be used until cleared for safe operation.

Who uses an Out of Service tag?

- a competent person who is familiar with the equipment should use out-of-service tags
- an out-of-service tag should only be removed if equipment is safe for regular use.

When is an Out of Service tag placed?

- when equipment is faulty or may cause further damage or injury to workers
- at shift end &/or when personal danger locks & tags are being removed and the equipment is still out of service/faulty.

How is an Out of Service tag used?

- the Out of Service tag shall be placed in a prominent position on the isolation point(s) where it can be easily seen by anyone attempting to start, operate or access the plant or equipment
- the Out of Service Tag must contain the following information:
 - Equipment: The equipment description
 - Placed by: The name of the person placing the Tag
 - Dept/Sect: Department and Section, or Contractors Company Name
 - Date: The current date
 - Time: Time that the Tag is placed,
 - Reason: The reason for placing the Tag, ensure that adequate information is recorded so that all readers can understand why the Out of Service Tag is there
- in situations where the Out of Service tag is placed to indicate defective plant or equipment, details of the issue must be communicated to maintenance persons as soon as possible.

Precautions with Out of Service tags:

- do not operate any plant or equipment if there is an Out of Service tag attached to it other than for the purpose of positioning the equipment for repair, in which case a Commissioning & Test tag must also be attached
- if you are unable to find out the reason for the Out of Service tag, or if you cannot find out if the plant or equipment has been repaired, then notify a supervisor so that an inspection and test can be carried out.

Removal of the Out of Service tag:

- when the Out of Service Tag has been used to indicate defective plant or equipment; it can only be removed by an Authorised Isolator, the person who rectified the fault or their supervisor and only after being satisfied it is safe to do so.

Personal Danger Tags



Purpose of the Personal Danger tag:

- The purpose of the Personal Danger tag is to inform ~~personnel~~ workers that the person named on the tag is working on a task that requires the isolation point to which the tag is attached to remain Isolated.

Who uses a Personal Danger tag?

- all ~~personnel~~ workers intending to undertake work on a task that requires Isolation.

Where is a Personal Danger tag placed?

- personal Danger tags are only to be placed on an isolation point, to which an Isolation Tag and lock has been attached.

How is a Personal Danger tag used?

- Personal Danger Tags are always used in conjunction with Personal Locks by threading the Lock's shank through the eyelet in the tag
- the Personal Lock must then be attached to the Isolation Device, which has five locations for isolation, such as a scissor clip or distribution board isolator.

The Personal Danger tag must contain the following information:

- Equip No: the equipment description (if necessary)
- Placed by: the name of the person placing the tag
- Signature: the signature of the person placing the tag
- Dept/Sect: department and section, or contractors company name
- Date: the current date
- Time: time that the tag is placed, Personal Danger tags are only placed and removed by the person whose name appears on the tag.

Personal Danger tags are removed and destroyed by the person owning the tag:

- as soon as possible upon completion of works
- if person is transferred to another job task, or
- at the completion of the shift.

2.4 Training and Competency

Workers intending to undertake isolation of plant and equipment in a workplace, need to be suitably trained and possess qualifications relevant to the isolation they are conducting, for example:

- electrical isolations can only be conducted by a qualified electrician
- gas isolation can only be completed by a qualified gas plumber
- plumbing isolations can only be completed by a qualified plumber
- plant, equipment and associated systems must only be isolated by a person who is trained and competent in the operation of the plant/equipment. Equipment manuals must always be followed, and isolations completed as per manufacturer instruction.

Nominated Site Delegate

Persons in control who are managing works which include isolations are required to complete the below training:

- Lockout tagout toolbox training available in [MyLearning](#)

Authorised Isolator

Workers intending to undertake role must have the below nationally recognised unit of competency:

- mandatory units: RIISAM202 - Isolate and access plant or similar.

Note: in addition to the above, all workers intending to undertake work need to be suitably trained and possess qualifications and licenses relevant to the scope of work being conducted.

Contractors are required to upload their qualification onto the WACHS [Online Contractor Induction](#) during induction and WACHS workers are required to provide their qualification to their manager for record keeping.

2.5 Machine or Equipment Shutdown for Isolation

If the equipment is operating, it must be shut down prior to any works being undertaken. Only workers who are trained to operate the equipment should handle the shutdown or restart processes.

When shutting down machinery or equipment works must ensure:

- The risk assessment includes both direct and indirect hazards associated with isolating equipment or infrastructure, such as piping. For example, indirect hazards may involve isolating critical medical supplies, like oxygen, which could compromise patient safety, while direct hazards may include hazardous energy, such as electricity from an emergency Uninterrupted Power Supply (UPS).
- permission from the Nominated Site Delegate has been granted to isolate the machinery or equipment, prior to any isolation being conducted
- the site [LOTO Isolation Register](#) is accurate and complete before work commences
- it is turned off and will not be used
- all energy sources are disconnected or isolated
- electrical disconnect switches are not pulled while under load
- stored energy must also be released, disconnected, or restrained
- fuses are not pulled to lock out as it does not guarantee the circuit is dead.

Shutting the plant or equipment down may require identifying and removing or minimising other hazards to reduce the risk of injury. All hazards must be reported to the worker in control of the equipment and complete a [Safety Risk Report Form](#) (SRRF).

Identify and Isolate all Energy Sources

There are numerous sources of hazardous energy. When conducting an isolation all energy sources should be considered. Refer to the below sources:

- **Electrical energy:** Energy made available by the flow of electric charge through a conductor. It can be encountered live through power lines, transformers, switchgear, local controls and distributors; or it can be stored in batteries or capacitors. Refer to [Safe working guidelines for electrical workers](#) and [Guidelines for the Safe management of high voltage electrical installations](#) for additional information on electrical management.
- **Chemical energy:** Energy that is stored in chemicals and that is released and converted into other forms when a substance undergoes a chemical reaction. Refer to [Managing risks of hazardous chemicals in the workplace – code of practice](#) for additional information on chemical management.
- **Mechanical (kinetic) energy:** The energy an object, component or material possesses due to its motion. Refer to the Manufacturers Equipment Manual for additional information on mechanical management.
- **Stored (potential) energy:** The energy stored within a physical system, including gravitational potential, and pneumatic and hydraulic pressure energies. Refer to the Manufacturers Equipment Manual for additional information.
- **Thermal energy:** Internal energy due to temperature, experienced as heat or cold, produced by mechanical devices, electrical resistance, chemical reactions, or state changes (e.g., melting, evaporation). Refer to the Manufacturers Equipment manual for additional information on thermal management.
- **Radiation energy:** Electromagnetic sources like lasers, microwave transmitters, infra-red or ultraviolet light equipment, and X-ray machines. Refer to your regions Radiation Management Plan (RMP).

Plant and equipment that requires isolating must have appropriate isolation points for all energy sources and all of these must be identified. All energy sources must be identified and isolated prior to work commencing. Sometimes a local isolator might be required to shut down a specific part of the machine while the rest of the plant remains in operation.

Emergency stop buttons and similar stop devices should not be considered adequate isolation points. Depending solely on these for isolation poses risks for the following reasons:

- they are not designed for frequent use
- they cannot not always be locked out
- there is a potential for re-energization
- control circuits may remain active.

Local isolating switches must be used for equipment controlled by programmable logic devices. A worker skilled with the equipment may be nominated to help manage isolating energy sources and risks.

Where equipment connects via a plug and socket, only a competent person, such as an electrician, should isolate and disconnect all the electrical supply and the control circuit. This ensures that the equipment cannot be powered by another source or control system.

Consideration must be given to emergency power supplies which operate from an Uninterrupted Power Supply (UPS). Such devices have the potential to release an electrical charge.

Guarding

Guarding designed to protect workers from moving parts may need to be removed or de-activated before adjustment, inspection, cleaning, repairs or maintenance. The plant's energy source must always be isolated and locked out before guarding is removed. When work on the plant is complete, guarding must be replaced and secured before energy is restored and normal operations re-commence.

More than One Energy Source

Multiple energy sources and hazards must be locked out for a safe plant shutdown, one worker should hold the key for each lock. When several workers work on a plant with multiple lockout points, each must attach a lock and tag to each point.

2.6 De-energise all Stored Energies

To prevent energy from remaining after isolation, consider these steps:

- check if all parts have stopped moving
- install ground wires
- release trapped pressure
- ease tension in springs or block spring-driven movements
- secure parts that could fall
- stop hydraulic and pneumatic parts that could move
- open vent valves and bleed lines
- drain and shut valves in process piping
- use a blank flange to block a line where there is no valve
- purge reactor tanks and process lines
- dissipate extreme cold or heat or provide protective clothing.

2.7 Testing Isolation

Once the equipment has been isolated it must be tested to verify the isolation has been affective, and de-energisation has occurred. This is often referred to as "TEST BEFORE YOU TOUCH". This is achieved by:

- trying to start and use the equipment;
- using a multimeter to test for current;
- any other similar test to verify the equipment cannot be operated.

Lockout/Tag Interruption

When a machine is locked or tagged, and testing or positioning is necessary, follow these steps:

- clear tools and materials
- keep workers at a safe distance
- remove locks/tags
- perform the test and/or complete repositioning
- de-energize all systems
- re-lock/re-tag the controls before resuming work.

Work is not to be completed on the machine whilst it is not isolated. Any adjustments must be made once the machine is re-isolated.

Note: If testing/adjustments can only be made whilst the machine is partially or not isolated a risk assessment must be completed for this. The task must be pre-approved by the nominated Site Delegate.

If adjustments are made, a calibration must be repeated to ensure the adjustment has not affected the integrity of the machine or performance standard.

2.8 Completing the Work

While working, stay alert for unexpected hazards or changing conditions. Once remedial work is complete, workers who tagged the controls are to remove the tags or locks and restore energy before the plant is returned to its operational status. The person removing the tag is required to sign off the [LOTO Isolation Register](#).

Removal of Isolation

To safely remove a LOTO and restore the equipment:

- finish the work, ensure all tools and equipment have been removed, make the area safe, and complete required documentation.
- remove isolation locks and tags locks and tags and replace with “out of service” or “testing signage”
- reverse isolation and return the equipment to normal operation by:
 - calibrate (if required) and test the equipment as needed (e.g., polarity, purity, phase rotation); and/or
 - verify the system integrity has not been compromised by verifying:
 - pipes and connections have been connected to correct inlet/outlets.
 - circuits are returned to original design or revised designed; and/or
 - services whether they be gas, liquid or similar are tested to ensure they contain the content as per system design.
 - test the equipment as needed (e.g., polarity, purity, phase rotation)
- confirm that the equipment works safely before returning to service.

Note: Place equipment or service on stand-by or back-up, overnight or for 24hrs; to ensure repair or maintenance is effective, as required.

Once equipment is functioning correctly:

- remove “Out of Service” signs
- inform ward/department/facility that works are complete.
- return Lock Box (if multiple trades or isolations)
- record all work undertaken as per site procedures.

Incomplete Work

If a worker, whether working alone or with a group, leaves the work area while equipment is still out of service, they must:

- make sure the area remains safe
- advise remaining workers that they are leaving and their intention to remove their personal danger and isolation lock
- replace their personal isolation and danger tags with equipment isolation locks and caution/out of service tags

- the master lock, with a danger tag will remain in place to ensure the equipment cannot be operated
- coordinate with others and the person in charge
- check that the isolation is secure
- discuss the plant and equipment isolation lock key management with the person in control
- record key location details on the tags.

LOTO Lock Left Unattended

If a personal lock remains and its owner is absent and/or unable to return to the site, the person in control must:

- appoint (in writing) an authorised person to:
 - check plant and equipment if it's safe to remove lock/tag or isolation
 - inspect the equipment is assembled, covers in place and its safe
- if the equipment or service is deemed:
 - unsafe - maintain the lock out and use an Out of Service tag
 - safe - remove the lock/tag or isolation
 - inform the lock owner that their site access is cancelled, and they must report to RMISS
 - complete a [SRRF](#).

2.9 Failure or Breach of LOTO Process

Breach of Lockout and Tagout Procedure

If there is a LOTO or isolation process breach:

- the person in control investigates the alleged breach and possible reasons for the breach
- complete a [SRRF](#)
- determine appropriate action to be taken.

Isolation Lock Left Unattended

If a personal lock remains and its owner is absent and/or unable to return to the site, the person in control must:

- make all attempts to contact the person via phone, short message service (sms) or email to confirm if the plant and equipment is:
 - safe to operate and has been returned to the required standard of operational functionality (including required calibrations or similar testing); and
 - if it is safe to remove lock/tag or isolation
- appoint (in writing) an authorised person to:
 - check plant and equipment if it's safe to remove lock/tag or isolation
 - inspect the equipment is assembled, covers in place and its safe
- if the equipment or service is deemed:
 - unsafe - maintain the lock out and use an Out of Service tag
 - safe - remove the lock/tag or isolation
 - inform the lock owner that their site access is cancelled, and they must report to RMISS
 - complete a [SRRF](#).

Completed tag found on floor

If a completed Tag is found:

- the person named on the Tag shall be contacted
- the status of the equipment shall be determined and if the Tag Owner and Nominated Site Delegate are satisfied the Tag shall be reattached or destroyed and new Tag attached
- complete a [SRRF](#).

Tag missing from a locked isolation point

When a tag is missing from a locked isolation point:

- the person who placed the Lock shall be identified and advised their Tag is missing from the Lock and the integrity of the isolation shall be confirmed.
- if the person cannot be located a new tag shall be attached to the lock by the person in control of the work. The Tag shall be attached without Unlocking the Lock.
- if the person cannot be identified and the status of the equipment is unknown and needs to be operational refer to above Isolation Lock Left Unattended.
- complete a [SRRF](#).

Inability to lock an Isolation point

If there is an inability to lock an isolation point:

- when the lockout mechanism on an isolation point is found to be broken or missing, the mechanism shall be repaired or replaced immediately. If damaged the mechanism must be made safe
- if the isolation point is unable to be repaired or replaced immediately, other upstream isolation points shall be considered to be used instead
- complete a [SRRF](#).

Key or Lock misplaced

If a key or lock is misplaced, then:

- any person finding a Personal Lock Key, Isolation Lock Box Key or Isolation Lock Key shall immediately return the key to the Personal Lock Holder, Nominated Site Delegate or Supervisor
- if missing, a search of the work area shall be initiated to attempt to recover. All associated locks and keys shall be destroyed and a new key and lock set made available
- complete a [SRRF](#).

Hazards and incidents must be reported in line with the WACHS [Hazard and Incident Management Procedure](#).

3. Roles and Responsibilities

Person Conducting a Business or Undertaking (PCBU) is responsible for:

- ensuring workers complete required inductions
- providing training and supervision information
- ensuring workers have been trained or deemed competent, providing PPE and usage guidelines

- ensuring that equipment used within LOTO meets standards and is regularly inspected and maintained
- establishing and maintain safe work practices.

The **Nominated Site Delegate** is responsible for:

- establishing and maintaining safe work practices
- selecting the Person in Control; supervisor or manager or nominated delegate
- authorisation of works to begin when risks are high or intolerable
- managing and overseeing this procedure
- operational processes being undertaken and oversight of compliance.

The **Person in Control**, as nominated by RMISS, is responsible for:

- ensuring workers complete required inductions
- providing information, training, and supervision
- verifying workers have necessary licences and training
- providing LOTO procedures
- providing PPE and usage guidelines
- ensuring risk assessments have been conducted before isolation of plant or equipment
- developing and using of LOTO procedures
- ensuring workers have completed their required training
- ensuring that equipment specific instructions (Safe Work Method Statements) are developed and inspected periodically (at least annually).

The **Regional Work Health Safety and Security Manager** is responsible for providing:

- advice to managers and supervisors on LOTO requirements in the workplace as it relates to monitoring and compliance
- advice and consulting with managers and staff on how to manage hazards and risks that have been identified and raised via [SRRF](#) reporting.

Workers (Contractors, Employees and Volunteers) are responsible for:

- performing risk assessment
- using lockout/tagout procedures to control hazardous energies
- taking reasonable care of their own and others' safety and health
- undertaking the relevant training
- cooperating with PCBU in carrying out safety and health requirements.

All staff are required to comply with the directions in WACHS policies and procedures as per their roles and responsibilities. Guidelines are the recommended course of action for WACHS and staff are expected to use this information to guide practice. If staff are unsure which policies procedures and guidelines apply to their role or scope of practice, and/or are unsure of the application of directions they should consult their manager in the first instance.

4. Monitoring and Evaluation

Monitoring for this document is conducted by the People Capability and Culture and Infrastructure and Environment Directorates to ensure compliance across all WACHS sites. This involves periodic reviews of the following:

- comparison of risk assessments with work orders raised in Agility
- periodic assessment of site-specific isolation registers, including monitoring inspection and maintenance frequency

- regular assessment of the Online Contractor Induction System to ensure that contractors have been inducted according to WACHS expectations for safe working practices.

Evaluation of this document will be undertaken collaboratively by the People Capability and Culture and Infrastructure and Environment Directorates utilising the outcomes of periodic review and auditing data as well as stakeholder feedback.

5. References

DEMIRS/Department of Commerce [Guidance note – Isolation of plant.](#)

DEMIRS/WorkSafe [Managing risk of plant in the workplace: Code of practice](#)

DEMIRS/Building and Energy [Guidelines for the Safe management of high voltage electrical installations](#)

Safe Work Australia [Guide for safe design of plant](#)

Safe Work Australia – Supporting Information – [Information sheet for plant designers, manufacturers, importers and suppliers](#)

Standards Australia AS 4024.1603-2006 – Safety of machinery. Available from [i2i - Online Viewer \(AS/NZS 4024.1603-2006: EN\) \(saiglobal.com\)](#) [accessed 2024 March 06].

Standards Australia. AS/NZS 4836:2023 – Safe working on or near low-voltage electrical installations and equipment. Available from: [i2i - Online Viewer \(AS/NZS 4836 : 2023 : EN\) \(saiglobal.com\)](#) [accessed 2024 March 06].

6. Definitions

| Term | Definition |
|--------------------------------|---|
| Authorised Isolator | An “Authorised Isolator” is a person who has received the appropriate training in Isolation & Tagging procedures and has been deemed competent to use isolation locks and tags in their work area(s). |
| Competent Person | A person who has acquired through training, qualification or experience, the knowledge and skills to carry out the task. |
| Stored Energy | Batteries, springs, flywheels, accumulators, capacitors, inductors, suspended weights or loads, large volumes under gravitational force, fluids under pressure (water, effluent, air or hydraulic oil). |
| Energy Sources | An energy source is a form of energy e.g. electrical (mains, solar, generator, UPS or inverter), mechanical, fuel, chemical fluids under pressure, hydraulic, radiation, thermal (heat, steam), gravitational, pneumatic, and kinetic energy systems. |
| Energy-isolating device | A device that physically prevents the transmission or release of energy, including the following: <ul style="list-style-type: none"> manually operated electrical circuit breaker |

| | |
|--|--|
| | <ul style="list-style-type: none"> • disconnect switch • manually operated switch to disconnect circuit conductors • line valve • block • any similar device used to block or isolate energy. |
| Danger Tag | <p>Danger Tags indicate that the worker whose name appears on the tag is working on the item of plant, and that the item must not be operated as operation could result in an incident occurring (e.g. injury).</p> <p>Each worker that is working on any type of plant must complete and attach a personal Danger Tag to an appropriate type of isolation device. It is recognisable as a red and white tag with the wording 'Danger Do Not Operate'. Tags shall only be removed by the person who placed and signed the tag. Where more than one person or a group is working on the same isolated energy.</p> |
| Hazard | A situation or thing that has the potential to harm a person. |
| Isolation | Isolation is the removal of the energy source from an item of plant to prevent the accidental or unplanned energisation so that the plant does not move or start up. It also restricts entry to an area during the task. |
| Isolation Point | A point at which an Isolation Lock and Tag can be applied to effect positive isolation or an energy source from equipment. |
| Lock Box | Used for multiple isolation points and tracking the number of people working on an equipment/plant/service. |
| Out-of-Service Tag | <p>Plant that is deemed to be unsafe to operate can be taken out-of-service by the placement of an Out-of-Service Tag.</p> <p>Out-of-Service Tags are placed on plant to indicate it may be unsafe to use or operate, as it is not operating correctly or is not ready to be operated and use of that plant may cause an incident. It is recognisable as a yellow and black tag, with the wording 'Caution Out of Service'.</p> <p>Out-of-Service plant must not be operated.</p> |
| Person conducting a business or undertaking | <p>A person conducting a business or undertaking (PCBU) is an umbrella concept which intends to capture all types of working arrangements or structures. A PCBU includes a:</p> <ul style="list-style-type: none"> • company • unincorporated body or association • sole trader or self-employed person. |
| Person in Control | A person who has control of premises used as a workplace. The person with control may be: |

| | |
|------------------|---|
| | <ul style="list-style-type: none"> the owner or nominated representative of the premises. a person who has, under any contract or lease, an obligation to maintain or repair the premises. a person who is occupying the premises. a person who can make decisions about work undertaken at the premises; or an employer at the premises |
| Plant | Plant includes machinery, equipment, appliance, container, implement and tool components or anything fitted or connected to those things. |
| Risk | The possibility harm (death, injury or illness) might occur when exposed to a hazard. |
| Worker | Any person who carries out work for a person conducting a business or undertaking, including work as an employee, contractor or subcontractor (or their employee), self-employed person, outworker, apprentice or trainee, work experience student, employee of a labour hire company placed with a 'host employer' or a volunteer. |
| Workplace | Any place where work is carried out for a business or undertaking and includes any place where a worker goes, or is likely to be, while at work. |

7. Document Summary

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| Coverage | WACHS-wide |
| Audience | All staff |
| Records Management | Non Clinical: Corporate Recordkeeping Compliance Policy |
| Related Legislation | <ul style="list-style-type: none"> • Electricity Act 1945 (WA) • Work Health and Safety Act 2020 (WA) • Work Health and Safety (General) Regulations 2022 (WA) |
| Related Mandatory Policies / Frameworks | <ul style="list-style-type: none"> • MP 0006/16 Risk Management Policy • MP 0180/23 Work Health and Safety Management Policy • Clinical Governance, Safety and Quality Framework • Risk, Compliance and Audit Framework • Work Health and Safety Framework |
| Related WACHS Policy Documents | <ul style="list-style-type: none"> • Hazard and Incident Management Procedure • Job Hazard Analysis Procedure • Safe Work Method Statement Procedure • Work Health and Safety Policy |
| Other Related Documents | <ul style="list-style-type: none"> • DEMIRS/Department of Commerce Guidance note: Isolation of plant • DEMIRS/WorkSafe Managing risks of plant in the workplace: Code of practice • Safe Work Australia Guide for safe design of plant • Safe Work Australia – Supporting Information – Information sheet for plant designers, manufacturers, importers and suppliers • WACHS LOTO Isolation Register |
| Related Forms | <ul style="list-style-type: none"> • Job Hazard Analysis Form • Safe Work Method Statement (SWMS) Form |
| Related Training Packages | Nil |
| Aboriginal Health Impact Statement Declaration (ISD) | ISD Record ID: 2602 |
| National Safety and Quality Health Service (NSQHS) Standards | 1.07, 1.08, 1.09, 1.10, 1.20, 1.21, 1.22, 1.25, 1.29, 131 |
| Aged Care Quality Standards | Nil |
| Chief Psychiatrist's Standards for Clinical Care | Nil |

8. Document Control

| Version | Published date | Current from | Summary of changes |
|---------|-----------------|-----------------|--|
| 1.00 | 20 March 2024 | 20 March 2024 | New procedure. |
| 2.00 | 24 January 2025 | 24 January 2025 | Revised procedure to include medical gasses isolation. |

9. Approval

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| Policy Owner | Executive Director Infrastructure and Environment |
| Co-approver | Executive Director People, Capability and Culture |
| Contact | Program Manager Assurance and Risk Infrastructure |
| Business Unit | Infrastructure and Environment |
| EDRMS # | ED-CO-24-86729 |
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