



Safe Work Procedures Roofing and Wall Cladding



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Trading As: Statewide Roofing Qld

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SAFE WORK PROCEDURES WORKING ON ROOFS

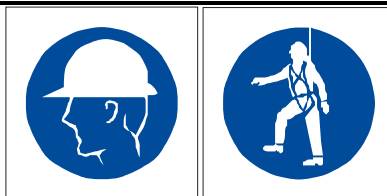
| SPECIAL INSTRUCTIONS: | | | |
|--|--|---|---|
| 1. These procedures apply where a person may fall more than 2.0 m. (NT, Qld, SA, Vic, WA); 1.8 m. (ACT, NSW); or 2.4m. (Tas. - Commercial construction) or, any height (Tas. - Domestic construction). | | | |
| 2. REFER TO SPECIFIC SAFE WORK PROCEDURES OR WORKPLACE PRACTICES MANUAL FOR FURTHER INFORMATION ON TOPICS. | | | |
| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
| 1. General precautions | Falling objects Electrical hazards Slips and falls | Provide edge protection to prevent objects falling from working surfaces. Use barricades to prevent access into area where objects may fall. Ensure that electric wires are de-energised or insulated with matting and identified with “tiger tails” before work commences. Footwear should have flexible soles, with “non-slip” sole pattern. Extreme care is required when working on steep, wet or mossy roofs. | Wear head protection on sites where falling objects may occur. Keep safe distance from electric catenary wires at all times. Ensure that good footing can be maintained at all times. |
| 2. Use of ladders | Falls | Single or extension ladders are to be used for access only, except where the work to be carried out is such that the material or equipment used does not restrict movement or cause loss of balance, the trunk of the body remains centred on the ladder, and any equipment used can be used with one hand. | Industrial ladders only to be used. Always have 3 points of contact. Must be on firm, stable surface and be secured against movement. |
| 3. Use of scissor lifts | Overloading Accidental movement Overturning Persons falling | Ensure that total load on platform (including personnel tools and equipment, and materials) does not exceed the safe working load of the unit. Check operation of brakes, stops, outriggers, etc to ensure that unit cannot move when platform is extended. Platform should be lowered before moving unit even for short distances. Persons must not lean out over rails of platform when working at heights. Park scissor lift as close as possible to building (not more than 100mm from roof being accessed) when preparing to step from machine to roof. Raise platform until floor of platform is level with roof. If fitted, depress “Dead man” button to prevent movement of machine. Place sign on bottom control panel to prevent unauthorised movement or operation of machine while in use for roof access. | Never exceed the safe working load of the scissor lift. Do not use if brakes or stops do not prevent all movement of unit. Do not travel with platform raised. Keep body inside platform. Keep edge of platform as near as possible to roof being accessed. Avoid step up or step down. Place “Do Not Use” tag on controls to prevent unauthorised movement of machine. |
| 4. Use of elevating work platforms | Overloading of platform Persons falling | Ensure that total load in bucket of EWP (including personnel tools and equipment, and materials) does not exceed the safe working load of the unit. Persons in EWP bucket must wear appropriate safety harness which will prevent the falling to ground or on to any part of the EWP or truck. Raise platform until floor of platform is level with roof. If fitted, depress “Dead man” button to prevent movement of machine. Place sign on bottom control panel to prevent unauthorised movement or operation of machine while in use for roof access. | Never exceed the safe working load of the EWP. Parachute type harness to be worn - belt type must not be used. Position so that gate faces roof. Place “Do Not Use” tag on controls to prevent unauthorised movement of machine. |

SAFE WORK PROCEDURES WORKING ON ROOFS

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|------------------------------|--|--|--|
| 5. Edge Protection | Persons falling Falling objects | Edge protection comprising a guardrail and midrail designed to withstand any force which may reasonably be expected to fall against it must be erected around the perimeter of the work to prevent persons falling. Edge protection must conform to requirements stipulated by the Authority. Hoardings or catch platforms with perimeter screening must be used where objects may fall onto people in adjoining areas (eg, street, residence, etc). | Guardrail to be at least 900mm high with mid rail and toe board. Edge protection systems must be erected by a competent person and used in accordance with the manufacturer's instructions. |
| 6. Steep roofs | Slips and falls | Place ladder on roof to allow persons to climb steep roof safely. Secure ladder on roof before attempting to climb roof on it. Consider use of fall arrest systems where work other than short duration. | Securely attach ladder to roof. Ensure adequate foothold. Provide edge protection. |
| 7. Brittle and fragile roofs | Falls | Permanent walkways should be installed on brittle or fragile roof areas that are accessed or traversed regularly. Provide adequately secured temporary walkways or other means of preventing persons falling through while traversing or working on the roof if permanent walkways are not practicable. | Reliance on roof purlins as safe footing is not recommended. Spread load evenly over roof area. Avoid point loads on roof – do not place heavy items on fragile roof. |

PRECAUTIONS:

The following precautions are to be observed, and suitable safety and warning signs as indicated displayed in areas where these procedures are carried out.



SAFE WORK PROCEDURES









ADHESIVE SPRAYING

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SPECIAL INSTRUCTIONS:

- Persons spraying adhesives must be notified of any hazards associated with the substances being used, and the appropriate health and safety measures for its use.
- Manufacturer's instructions for the use of the product must be followed in the use of the adhesives.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-----------------------------------|---|---|---|
| 1. General precautions | Atmospheric contaminants Slips and falls Fire and explosion | Spraying of adhesives should only be carried out in a well-ventilated area which will not allow vapours, etc, to contaminate other areas. Ensure that extraction system does not become clogged with adhesive. Use disposable filters to prevent build-up of adhesive in duct system. Floor area in adhesive spraying areas should be kept clean of spills and overspray which could cause persons to slip and fall. Eliminate all ignition sources (including static electricity) in areas where solvent-based adhesives are stored, handled and used. | Provide spray booth or extraction system to remove contaminants. Clean or replace filter media regularly to allow good airflow. Provide non-slip floor surface. Keep work areas clean. No smoking or ignition sources. |
| 2. Provision of information | Exposure to chemicals | Copy of current MSDS must be readily available to any person who may be exposed to a hazardous substance or product used in a workplace. | MSDS must identify all health and safety measures to be followed. |
| 3. Use of solvent-based adhesives | Exposure to chemicals Fire and explosion | Spraying of solvent-based adhesives must only be carried out in a properly constructed spray booth fitted with an approved filtration system. Persons exposed to solvent during spraying must be provided with and correctly use all PPE as specified on the MSDS. Eliminate all ignition sources (including static electricity) in area. | Wear eye, hand, & body prot'n. Wear gas filter respirator with P1 particulate pre-filter. |
| 4. Use of water-based adhesives | Exposure to chemicals | Provide extraction system to remove fumes from workplace during spraying. Persons spraying water-based adhesives should wear PPE as specified on the MSDS for the product. | Wear eye and hand protection. Wear P1 particulate face mask. |
| 5. Storage, spills and disposal | Environmental risk | Store adhesives and solvents in a cool dry area away from ignition sources. Discard any rags or materials used for clean up, etc, as flammable waste. Spills of solvents, etc, must not be allowed to enter drains or watercourses. Keep all persons clear of spill or leak area until declared safe to re-enter. | Always store in original packaging All packages to be clearly labelled Clean up any spills immediately. |

| PRECAUTIONS: The following precautions are to be observed in areas where these procedures are carried out. | Use of solvent-based adhesives | | | | | Use of water-based adhesives | | |
|---|---|---|--|---|---|---|---|---|
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SAFE WORK PROCEDURES

ASBESTOS & ASBESTOS CONTAINING MATERIALS

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SPECIAL INSTRUCTIONS:

1. Work involving free or friable asbestos **must only be carried out** by approved specialists who are the holders of the appropriate licence to carry out this type of work.
“friable” – when dry, asbestos can be crumbled, pulverised or reduced to powder by hand pressure, or may become so as a result of a work process.
“non-friable” – when dry, cannot be crumbled, pulverised or reduced to powder by hand pressure.
2. Work involving asbestos containing materials (ACMs) **must only be carried out** by a “competent person”, who possesses adequate qualifications, such as suitable training and sufficient knowledge, experience or skills, to perform the task safely.
3. All work involving asbestos or ACMs must be carried out in conformity with the *Code of Practice for the Safe Removal of Asbestos*.
4. Any work involving asbestos or ACMs must be carried out in a manner which will prevent the exposure of persons to asbestos fibres.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-------------------------|---|--|---|
| 1. Control of asbestos | 1. Friable, unstable, and presents a risk to health from exposure. 2. Friable, but stable, and accessible. 3. Not friable, and in good, stable condition. 4. Other ACMs. | Arrange removal by an approved asbestos removalist as soon as practicable. Restrict all unauthorised or unnecessary entry into area. Consider removal. If not practicable, sealing or encapsulation should be used as a short-term control measure (not allowed in some States). Minimise disturbance, seal or encapsulate (not allowed in all States). Attach label (where possible), and inspect regularly to ensure that the ACM is not deteriorating. | Authorised personnel only. Sealing or encapsulation not allowed in ACT, Qld or SA. Sealing or encapsulation not allowed in ACT, Qld or SA. Use standard international asbestos label to warn of presence of asbestos or ACMs. |
| 2. Cleaning of surfaces | Inhalation of asbestos fibres | Inspect surfaces to be cleaned to ensure that the ACMs are not friable, and are in a good, stable condition. The following activities must not be carried out – <ul style="list-style-type: none"> • use of a power tool to clean an ACM • use of a high pressure water cleaner to clean an ACM, or to clean up debris from an ACM • use of compressed air to clean an ACM, or a surface where debris from an ACM is present. | Use folded (not wadded) wet cloth to wipe surfaces – cloth to be disposed of as asbestos waste after use. Wear disposable gloves . Use industrial vacuum cleaner (not domestic type) specifically designed for use with hazardous particulates. |
| 3. Disturbance of ACMs | Inhalation of asbestos fibres | Avoid unnecessary removal or disturbance of ACMs. Use of power tools to cut ACMs is prohibited in all States and Territories. Drilling of ACMs is prohibited in ACT. Use heavy-duty plastic sheet to ensure that any particles are captured. Where possible, wet ACM to reduce generation of dust. Prevent unauthorised access to work area. Prevent spread of dust to other areas. Do not allow re-entry until area is decontaminated. | Determine whether work can be carried out without disturbing the ACM. Wear P1 or P2 particulate dust mask or respirator . Wear disposable coveralls to prevent contamination of clothing. Wear disposable gloves . |












SAFE WORK PROCEDURES ASBESTOS & ASBESTOS CONTAINING MATERIALS

Page 2 of 2

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|--|-------------------------------|--|--|
| 4. Handling and disposal of asbestos waste | Inhalation of asbestos fibres | <p>Avoid contact with or breathing asbestos-containing dust.</p> <p>Place asbestos waste into suitable heavy-duty sealable plastic bags or wrapping, ensuring that plastic will not be damaged by sharp points and edges of waste.</p> <p>Fully seal all openings and seams with heavy-duty plastic tape.</p> <p>Label bags and packages and dispose of only at an approved landfill site.</p> <p>Do not dispose of asbestos waste in domestic, commercial or industrial waste bins.</p> | <p>Wear P1 or P2 particulate dust mask or respirator.</p> <p>Wear disposable coveralls and gloves.</p> <p>Use standard international asbestos label to warn of presence of asbestos or ACMs.</p> |

PRECAUTIONS:

- The following precautions should be observed when handling asbestos or asbestos containing materials.
- Suitable safety and warning signs as indicated below should be displayed in areas where work involving asbestos or ACMs is carried out.

| Control of asbestos | Cleaning of surfaces | Disturbance of ACMs | | | | Handling and disposal of asbestos waste | | | |
|--|--|--|---|---|--|--|--|---|---|
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| | | | |  | | | | | |

SAFE WORK PROCEDURES CHEMICALS (HAZARDOUS SUBSTANCES)

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SPECIAL INSTRUCTIONS:

- Persons handling chemicals must be instructed on the hazards of the substance, and the means of protecting themselves, others and the environment from exposure to the substance.
- A chemical must not be used in a workplace unless a current Material Safety Data Sheet is available.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|------------------|--|---|--|
| 1. MSDS Register | Exposure to hazardous substances | Obtain a current Material Safety Data Sheet (MSDS) for each substance to be used in a workplace before the substance is first used. The MSDS must provide detailed information about the name of the substance (including ingredients in mixtures, health hazard information, precautions for use and safe handling of the substance). Provide a register which contains a MSDS for each substance together with a risk assessment in each area where a substance is used. | Ensure that the MSDS is the correct one for the substance actually being used in the workplace, and is current. Replace MSDSs every 5 years. Registers must be clearly labelled and be readily available. |
| 2. Storage | Fire Spills and leaks Hazards to the environment | Chemical storage areas are to be well ventilated, and provided with flame-proof lighting where significant quantities of flammable materials are stored. Provide bunds or other methods of preventing the spread of spilt or leaked liquids. Provide adequate means to contain and clean up spills and leaks in each area where liquids are stored. Neutralising agents should be readily available for substances such as acids. Dispose of spillage only as directed on the MSDS. Store dangerous goods in compliance with local dangerous goods regulations, and provide appropriate placards where quantities stored exceed minimum quantities requiring placarding to be provided. | No smoking or ignition sources in or near storage areas. Personal protective equipment as specified in the MSDS for a substance must be readily available in case of a spill or leak. Follow local environmental protection requirements. Prevent unauthorised entry into areas where dangerous goods are stored or handled. |
| 3. Labelling | Exposure to hazardous substances | Containers of hazardous substances should be clearly labelled with the trade name of the substance, the chemical name(s) of the ingredient(s), possible harmful effects, safe handling precautions, and the appropriate dangerous goods class label or poisons label. Containers used to transfer substances during a work process should be identified with the name of the substance while containing the substance. Tanks and Intermediate Bulk Containers which are identified with a dangerous goods placard do not require to be labelled unless the substance is to be used in the workplace. | Ensure that labels are clearly visible on all containers. Ensure that correct label is fixed to container. (Note – a label should remain on the container until it is cleaned of all harmful residue). |








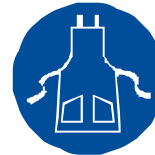

SAFE WORK PROCEDURES CHEMICALS (HAZARDOUS SUBSTANCES)

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| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-------------------------|--|--|---|
| 4. Handling | Exposure to hazardous substances Fire and explosion | Instruct all persons handling chemicals on the hazards of the substance, and the means of protecting themselves from the substance. Provide suitable respiratory, eye and body protection to all persons who are likely be exposed to a substance if adequate ventilation cannot be maintained, or if the substance poses an immediate risk to health. Eliminate and prevent all ignition sources from areas where hazardous substances are handled. Use earthing straps to prevent build up of static electricity. | Provide Safe operating instructions. Respirator, eye protection, body protection, liquid-proof gloves as required by MSDS. No smoking or ignition sources in areas where hazardous substances are handled. |
| 5. Disposal | Hazards to the environment | If applicable, neutralise spilt material with suitable neutralising agent. Place all waste and used substances in suitable containers labelled with the name and class of the substance. Dispose of waste substance at an approved chemical disposal facility. Do not allow substances to enter drains or watercourses. | Provide suitable containers for the disposal of waste substances. Do not dispose of in landfill unless authorised to do so by the relevant environmental authority. |
| 6. Emergency procedures | Exposure to hazardous substances or by-products | Procedures to remove persons who may be affected to a safe place must be provided where a spill or leak could result in a risk to health and safety. Train all persons in the implementation of emergency procedures. Clearly display emergency services contacts in areas where an emergency could arise. Emergency shower and eye-wash facilities must be provided in areas where an exposure is likely to occur. Suitable first aid facilities should be readily available in case of exposure. | Provide alternative emergency assembly areas where the areas may be affected by wind-borne substance |

PRECAUTIONS:

- The following precautions should be observed when using chemicals or hazardous substances.
- Where applicable, suitable safety and warning signs as indicated below should be displayed in areas where chemicals or hazardous substances are used.

| Fire and explosion | | | Unauthorised entry | Exposure to hazardous substances (Refer to MSDS) | | | | |
|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |

SAFE WORK PROCEDURES

COLD SAWS

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SPECIAL INSTRUCTIONS:

1. Cold saws are to be used for metal cutting only.
2. Only those blades which are designed for metal cutting at low speeds are to be used in cold saws.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|----------------------------|---|--|---|
| 1. Pre-start checks | Slips, trips and falls Flying objects Damage to saw blade Job moving or slipping | Ensure area around saw is free of offcuts, debris and spilt coolant. Inspect blade for damage (e.g., worn, broken or missing teeth). Check coolant level, top up if necessary. Ensure that mating surfaces of vice or work clamps are clean of swarf. | Keep work area clear. Replace blade if faulty. Do not “dry cut” metal. Clean mating surfaces. |
| 2. Preparation for cutting | Setting stops for production cutting. Job moving | With saw turned off, lower blade to touch stock, and measure from blade to end with metal rule or sample piece. Clamp work to be cut securely in vice or with work clamps. | Ensure that saw cannot be used. Ensure that stops are securely set. Ensure that job is securely held. |
| 3. Operation | Flying objects Skin exposure to chemicals Falling objects | Turn saw on, and pull blade down to slowly contact piece to be cut. Using steady (but not excessive) pressure, allow blade to cut through metal at its own rate. If blade “chatters”, stop machine and check blade for damage, and that stock piece is firmly held in vice or work clamps. Avoid excessive contact with coolant. Secure stock and cut pieces against falling from cutting bench. | Do not “bump” blade on work. Eye protection must be worn. Apply steady (not excessive) pressure on blade when cutting. Wear gloves, apron if necessary. Wear Type 1 footwear . |

PRECAUTIONS:

1. The following precautions should be observed when using cold saws.
2. Suitable safety signs as indicated below should be displayed in areas where cold saws are used.

| Flying objects | | Contact with coolant | | Falling objects | |
|---|---|---|---|---|--|
|  |  |  |  |  | |

SAFE WORK PROCEDURES CONFINED SPACES

SPECIAL INSTRUCTIONS:

1. A register should be kept of all confined spaces, which must be clearly identified.
2. A risk assessment must be carried out for each confined space (or type of confined space where a number of similar confined spaces are present).
3. Entry into a confined space should be restricted to persons who have been issued with a current permit to enter the confined space.
4. An observer who is familiar with means of rescue of a person from a confined space is to keep the person inside the confined space in view at all times.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|----------------------------------|--|---|--|
| 1. Identification | | Identify all confined spaces by a sign at each point of entry with the legend "DANGER Confined Space Entry by Permit Only". Any identification code or number allocated to the confined space should be clearly displayed at the entry point(s) and at any valves or controls related to the confined space. | Prevent unauthorised entry into the confined space during maintenance operations by barricading and posting suitable signs at entry points. |
| 2. Entry into confined spaces | Slips, trips and falls Removal of disabled person | Where entry into the space is by ladder, a means of preventing the person from falling must be provided. Where an injured or unconscious person may have to be removed from a confined space, a safety line attached to a parachute type harness must be attached to the person at all times. | Safety harness must be worn and fall arrestor system used. Fall arrestor line is not suitable for rescue purposes. |
| 3. Monitoring of confined spaces | Unsafe atmosphere | Constantly monitor the atmosphere inside the confined space for flammable or explosive gases, toxic gases, or unsafe oxygen levels. | Supplied-air respirator or breathing apparatus to be worn. |
| 4. Working in confined spaces | Heat Noise Striking against objects Flying particles, dust Toxic or harmful contaminants Electric shock | Provide flow of fresh air from outside of the confined space to assist in reducing the temperature inside the confined space. Work processes in a confined space may produce noise levels much higher than the same process carried out in the open. Restricted work space increases risk of hitting head on parts, structure, etc. Close proximity of walls, etc, increases risk of foreign body in eyes. Confined space will result in higher concentrations of dust or air-borne residue from work processes. Process vessels and storage vats, etc, may contain harmful residues even after purging, which may result in harmful contact during entry. Physical damage to power leads will result in surfaces becoming "live". Risk of electric shock while welding in damp or wet conditions. | Continue to carry out monitoring of atmosphere. Wear hearing protection. Head protection should be worn. Eye protection must be worn. Wear dust mask or respirator. Wear body protection, gloves and water-resistant footwear. Safety switch or RCD to be used. Use rubber mats while welding. |
| 5. Return to service | | Ensure that all tools and materials have been removed from the confined space before signing off on the entry permit. Remove and sign all danger tags and lockouts before signing off. | |









SAFE WORK PROCEDURES CONFINED SPACES

Page 2 of 2

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|----------------|----------------------------|---|----------------------------|
| 6. Signing off | Undetected hazards | Report any new or previously undetected hazards encountered during the work in the confined space on the entry permit before returning the permit to the issuing officer Report any suggested changes or improvements to work processes for consideration and implementation before the next or similar entry. | |

PRECAUTIONS:

- The following precautions should be observed when working in confined spaces.
- Where applicable, suitable safety and warning signs as indicated below should be displayed in areas where persons are required to enter a confined space.

| Unauthorised entry | Slips, trips and falls | Unsafe atmosphere | Noise | Striking against objects | Flying particles | Dust | Toxic or harmful contaminants |
|---|---|---|--|---|---|---|---|
|  |  |  |  |  |  |  |  |

SAFE WORK PROCEDURES ELEVATING WORK PLATFORM

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SPECIAL INSTRUCTIONS:

- Persons should not operate an elevating work platform unless they have been instructed in the precautions to be observed and the safe use of the machine.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-------------------------|--|---|--|
| 1. Pre-start checks | Loss of power Loss of control Risk of falls Accidental movement | Ensure that battery is fully charged before using the EWP for any working at heights. Check liquid levels (fuel, oil, coolant, hydraulic oil, etc) before operation. Check all controls for correct operation before commencing use. Check all movements before commencing – should be smooth and steady. Check operation of brakes, stops, outriggers, etc to ensure that unit cannot move when boom is extended. Ensure that guard fence and gate/s is secure and closes securely. | Do not use if battery power is low. Recharge battery before use. Top up liquids if levels are low. Do not use faulty equipment. Do not use if movements “jerky”. Do not use if brakes or stops do not prevent all movement of unit. Check operation of gate latch. |
| 2. Travel | Instability | Reduce speed when turning corners, on rough surfaces or where visibility is restricted (eg, blind corners, etc). Boom should be lowered before moving unit even for short distances. Keep body fully within confines of cage when traversing. | Always travel at safe speed. Corner at slow speed only. Do not travel with boom raised. Ensure that gates on cage closed. |
| 3. Security of worksite | Collision Falling objects | Use barricades, traffic cones and signs, etc, to prevent collision of other plant or vehicles working in vicinity with EWP. Prevent access of persons into vicinity of EWP when boom is raised. | Use signs barricades, cones, etc, to protect work area. Prevent unauthorised entry. |
| 4. Working at heights | Instability Electric shock | Ensure that unit is on level surface (or is levelled with outriggers if working on uneven surfaces) before raising boom. Ensure that gates on platform guard rails are closed and locked in place. Do not reach out beyond confines of cage when working at heights. Do not “rock” unit when platform is raised. Keep safe distance from overhead catenary wires and electrical installations, or have services isolated and locked out before starting work in vicinity. | Ensure that unit is parked on a stable, firm surface before raising. Do not open gates when elevated. Wear safety belt or harness. Avoid sudden or jerky movement. Identify electrical hazards before commencing work. |

PRECAUTIONS:

- The following precautions are to be observed when operating or working in the vicinity of elevating work platforms.

| Prevention of unauthorised entry | Working at heights | Falling objects | |
|---|---|--|--|
|  |  |  | |

PROCEDURES for FIRE AND OTHER EMERGENCIES

FIRE

If you see a fire in the workplace, **DO NOT PANIC!**

- Raise the alarm – notify others in the workplace. If the fire is large, or appears as if it may get out of control, ring the **FIRE BRIGADE**, giving all details (name and address of fire location, type of fire, persons trapped, etc). **DO NOT HANG UP UNTIL ADVISED TO DO SO BY THE BRIGADE.**

If you hear an alarm sounding, **DO NOT PANIC!**

- Check your surrounding area for any signs of fire. If you do not see a fire or smoke, remain at your workplace for further instructions. If you see a fire, tell others in the workplace, and ensure that the fire brigade has been notified of the fire.
- **ONLY IF IT IS SAFE TO DO SO, AND YOU HAVE BEEN TRAINED IN THE USE OF FIRE FIGHTING EQUIPMENT** – fight the fire from a safe location – always stay between the fire and your escape route.
- When advised to do so, evacuate the premises calmly to the designated Emergency Assembly Area, and **wait until advised** to either re-enter the premises or leave.

BOMB THREAT

(a) **If you receive a bomb threat by telephone**

DO NOT HANG UP – attract attention of another person, tell them that you have received a bomb threat on your extension, and ask them to notify the police immediately.

Attempt to keep the caller engaged in conversation – ask questions such as –

- Where is the bomb?
- What does it look like?
- When is it going to go off?
- Who put the bomb there?
- What organisation do you belong to?
- What was your name again?

DO NOT HANG UP even if the caller hangs up – the call can still be traced.

Follow all instructions given by staff, such as identifying all bags, parcels, etc, in your work area.

You must NOT leave your work area until you are told to do so.

(b) **If you find a suspicious article**

Notify staff working in the area, who will attempt to establish ownership of the article. If ownership cannot be established, the police must be notified (giving a full description of the article and its exact location). Follow all instructions given by staff. **You must NOT leave your work area until you are told to do so.**

DO NOT TOUCH OR MOVE THE ARTICLE.

ACCIDENTS OR MEDICAL EMERGENCIES

1. **KNOW THE LOCATION OF THE NEAREST FIRST AID FACILITY**
2. **KNOW THE IDENTITY OF YOUR FIRST AID ATTENDANT**
3. **KNOW HOW TO OBTAIN ASSISTANCE (eg, Ambulance) IN AN EMERGENCY**
4. **KNOW THE BASIC PRINCIPLES OF FIRST AID AND RESUSCITATION.**

BASIC FIRST AID

- | | |
|------------------------|--|
| D - DANGER | Protect yourself, the patient, and others from danger |
| R - RESPONSE | Determine whether patient is conscious or unconscious – “Shake and Shout” |
| A - AIRWAY | Make sure that the patient’s airway is clear |
| B - BREATHING | Check that the patient is breathing – if not, commence expired air resuscitation |
| C - CIRCULATION | Stop bleeding, and check patient’s pulse. |

HAZARDOUS SUBSTANCE SPILL OR LEAK

1. Alert other persons in the vicinity of the spill or leak – evacuate the area if necessary
2. If spill is large or extremely hazardous, contact emergency services
3. Do not place yourself at risk – ensure that you are properly protected before entering the area
4. Eliminate all sources of ignition within the area
5. Prevent spillage from entering drains and watercourses
6. If possible, stop leak or spill (close valves, decant into sound container, etc)
7. Clean up spilled material, place into suitable sealable container for disposal
8. Clean floors, etc, of area where spill occurred to remove residue
9. Label containers of waste material for disposal at an approved chemical waste facility
10. Fully ventilate area to ensure safe atmosphere before allowing re-entry into area.

POWER FAILURE

1. Determine whether the outage is local or due to supply grid failure
2. Determine the probable duration of the outage
3. Determine if any plant or machinery needs to be closed down, and follow shut-down instructions
4. If outage will be extensive, shut down operation and evacuate premises.

EVACUATION OF PREMISES

This procedure will be common to all types of emergencies.

DO NOT PANIC – PANIC HAS KILLED MORE PEOPLE THAN FIRES

1. Follow instructions given for evacuation of premises
2. Use designated evacuation routes to travel to a safe place or designated assembly area
3. Do not carry anything in hands during evacuation, especially if stairs must be traversed (shoulder bags OK)
4. Wait at assembly area until head count is completed, and further instructions given.
5. Do **NOT** re-enter building until all clear given and instructions given to do so.

SELECTION & USE OF FIRE FIGHTING EQUIPMENT

Do not attempt to fight a fire unless you know how to use the fire fighting equipment, and you will not be placing yourself in danger in doing so.

1. Know the location of fire fighting equipment in your work area
2. Know what types of fires the equipment is suitable for and unsuitable for
3. Know how to operate the equipment correctly and effectively
4. Ensure that all fire fighting equipment is ready for use at all times
5. Use the equipment according to instructions
6. Do not place yourself in danger – keep between fire and your escape route
7. Have equipment serviced or recharged after any use.

IF THERE’S ANY DOUBT – PLAY SAFE – GET OUT!

SAFE WORK PROCEDURES FALL ARREST SYSTEMS

Page 1 of 2

SPECIAL INSTRUCTIONS:

1. Persons required to use travel restraint or fall arrest systems must be competent in the selection, use and care of all components of the system.
2. All parts of a travel restraint or fall arrest system must be compatible and fit safely together – avoid using components from different manufacturers wherever possible.
3. **Persons using fall arrest systems should not work alone, or, if necessary to work alone, be constantly monitored to ensure that they have not fallen.**
4. **In the event of a fall, it is essential that the person be rescued as soon as possible to minimise suspension trauma resulting from the fall.**

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-----------------------------|---|--|--|
| 1. Standards compliance | Standards Design Use | All fall arrest systems used in Australia must comply with joint Australian and New Zealand Standard AS/NZS 1891 Industrial fall-arrest systems and devices. Parachute type harnesses only are to be used for fall arrest purposes. Lanyard or lifeline should be attached at the top dorsal position. (The D-ring on the side of the harness can be used on steeply sloping roofs). | Do not use waist type belts for work where a person may fall. |
| 2. Travel restraint systems | Anchorage Use of harnesses | Recommended design capacity of 22KN should be used, except where a lesser design load provides for a minimum safety factor of 6. Safety harnesses and lanyards can be used as travel restriction systems to prevent workers moving from safe to unsafe areas of a roof. | Length of lanyard must be less than minimum distance to edge. |
| 3. Lanyards | Tensile strength Fall arrest lanyards | Lanyards must have a minimum tensile strength of 22.2Kn. Lanyards with a personal energy absorbing system should only be used where other fall protection methods are impractical. Safety of synthetic lanyards can be damaged by contact with edges. | Ensure that potential free fall is not greater than 2 m. |
| 4. Inertia reel systems | Mounting Anchorage Activation delay Inertia reel line breakage Swing down (“pendulum effect”) Multiple use of reels Use of lanyards | Inertia reels should be mounted above head height where possible to limit the free fall distance to that recommended by the manufacturer. Anchorage should be as high as possible; recommended capacity 22KN. Fall arrest systems require a minimum distance (up to 4m) to activate. Inertia reel systems can be used to prevent falls when working near an unprotected edge of a roof or structure, but only where such use is approved by the manufacturer and line will not be damaged by contact with edges. Inertia reels can be used as a travel restraint where the maximum length of the reel line does not exceed the minimum distance to the unprotected edge. Inertia reels are not designed for continuous support, and should not be used as working supports by locking the system to prevent movement. Swing down can occur when the line is extended diagonally across the roof. The line will move back along the roof edge until it reaches a position directly in line with the anchorage point, when the reel will begin to operate. Avoid “crossing” of lines when more than one person is working on roof. Do not use lanyards in conjunction with inertia reels. | Ensure that mounting point can withstand the load imposed by the reel stopping a falling person. Contact of line with roof edge may hinder operation of inertia reel or cause the reel line to fail. Inertia reels may not be fully effective in situations such as stopping a person falling down an inclined surface or pitched roof. Use anchorage point in line with working position, or provide a mobile anchorage (static line), or provide secondary anchorage point to minimise swing. |

SAFE WORK PROCEDURES FALL ARREST SYSTEMS

Page 2 of 2

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-----------------------------------|--|---|--|
| 5. Static lines | Tensile strength Anchorage Intermediate supports Installation Inspection and maintenance | Recommended design capacity for static lines of 22KN should be used, except where a lesser design load provides for a minimum safety factor of 6. If the load-bearing capacity of an anchorage point is impaired, the anchorage must be immediately made inoperable so as to prevent its use. Intermediate supports for static lines should not exceed 4.0m spacings unless specifically designed to do so. Static line systems must be installed by a person holding a Certificate of Competency as a rigger or scaffolder. Inspect lines, fittings and anchorages before first use and then at regular intervals to detect any faults, corrosion or damage. | Static lines should be obtained as a complete system to ensure that all parts are compatible and capable of meeting design loadings. Visually inspect static line for faults before each use. |
| 6. Vertical lifelines (droplines) | Use Design Anchorage | Use vertical lifelines when working from bosuns' chairs and ladders. Vertical lifelines should have a minimum tensile strength of 22.2KN. Self-retracting lifelines should have a minimum tensile strength of 13.3KN. Mounting point should be as close to vertically above working position as possible, and have a design capacity of at least 22KN. | Ensure no obstructions within activation distance. |
| 7. General precautions | Use of fittings Inspection of systems Use of hooks | Fall arrest systems and fittings must only be used in accordance with the manufacturer's instructions. Visually inspect static lines, harnesses and fittings for faults before each use. Inspect hooks for correct operation before each use, and ensure that hook is fully closed and has not become entangled in clothing. DO NOT connect snaphooks to each other. Use of automatic or double locking types of hook is recommended to reduce risk of accidental opening of hook due to dynamic rollout during use. Ensure adequate clearance inside hook to prevent jamming in D-ring. | Approved fittings only are to be used on fall arrest systems. DO NOT USE faulty equipment. Do not use faulty or damaged hooks. Users must be familiar with the operation of the hook before use. |

PRECAUTIONS:

1. Suitable safety signs as indicated below should be displayed in areas where these procedures are carried out.

| | | |
|---|---|--|
| Use of safety harnesses and fall arrest systems |  | |
|---|---|--|

SAFE WORK PROCEDURES

FUEL – STORAGE AND HANDLING

Page 1 of 2

SPECIAL INSTRUCTIONS:

1. Quantities over 1,000 L of Class 3 Flammable Liquids are subject to Dangerous Goods Storage requirements in most States and Territories.
2. C1 Combustible Liquids (e.g., diesel fuel) in excess of 1,000 L stored with any quantity of fire risk Dangerous Goods are subject to Dangerous Goods Storage requirements in some States.
3. Flammable and Combustible Liquids storage and handling requirements apply in all cases (except where fuel is stored in underground tanks).

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|---------------------|---|--|---|
| 1. Storage | Security Fire risk | Fuel should be kept in a cool, well-ventilated place, preferably protected from weather and unauthorised access. All sources of ignition are to be eliminated from fuel storage areas. | No unauthorised entry. No smoking or ignition sources. |
| 2. Handling | Inhalation of vapours Fire risk Defatting of skin, dermatitis Irritation to eyes | Decanting and mixing of fuel should be carried out in a well-ventilated area. Provide earthing straps to eliminate build up of static electricity. Avoid direct contact with petrol on skin. Avoid splashing of fuel, and avoid getting petrol or fuel in eyes. | No smoking or ignition sources. PVC gloves, apron to be worn. Eye protection should be worn. |
| 3. Transport | Fire risk | Ensure that containers are earthed to prevent static build up during transport. Do not convey fuel in passenger compartment of vehicles. Fuel containers are to be secured from movement or accidental damage. If carried in a secure compartment, adequate means of ventilation is to be provided (e.g., roof ventilator, grille vent, etc). | Label all containers clearly with the contents of the container. No smoking or ignition sources. Suitable fire extinguisher must be carried on vehicle. |
| 4. Use | Fire risk | Refuel equipment and tools in a clear area away from vehicles, etc. Shut down machinery, and allow to cool down before refuelling. Use funnel or pourer to refuel, avoid spills and overfilling. Eliminate all ignition sources from refuelling area. | Suitable fire extinguisher to be available close to refuelling area. Avoid contact with skin and eyes. No smoking or ignition sources. |
| 5. Spills and leaks | Fire and explosion | Prevent further spill or leak if possible, and only if safe to do so. Eliminate all ignition sources from spill area, evacuate area if necessary. Prevent spill from entering drains and watercourses. If large spill, appropriate personal protective equipment will be required for persons entering area (persons must be specifically trained in procedures to follow in cases of spills of flammable liquids). Soak up spill if possible (Note – material used to soak up spill will also be highly flammable, and must be handled as fuel). Notify emergency services if threat to persons, property or the environment. Do not allow re-entry into area until spill is cleaned up fully and area has been decontaminated. | No smoking or ignition sources. Body protection (gas suit), self-contained breathing apparatus. PVC gloves, apron, respirator fitted with appropriate gas filter. |

SAFE WORK PROCEDURES














FUEL – STORAGE AND HANDLING

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| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|---------------|----------------------------|--|----------------------------|
| 6. Disposal | Fire, environmental risk | Waste fuel or spill residue must be disposed of properly at an approved chemical waste recycling or disposal facility, and not be disposed of in landfill, or allowed to enter drains or watercourses. All waste containers are to be properly labelled with the contents of the container. | |

PRECAUTIONS:

- The following precautions should be observed when fuel is stored or handled.
- Where applicable, suitable safety and warning signs as indicated below should be displayed in areas where fuel is stored or handled.

| Unauthorised entry | Elimination of ignition sources | | Handling fuel | | Spills and leaks | | Additional protection for large spills | |
|---|--|---|---|---|--|--|---|---|
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SAFE WORK PROCEDURES HAND TOOLS

SPECIAL INSTRUCTIONS:

1. Keep hand tools in good condition and properly sharpened for safe and correct use. (Most accidents with hand tools occur because of poor maintenance or because the tool is blunt, and excessive force is used due to tools not being able to carry out work).
2. Hand tools should never be used for any purpose other than that for which they are designed.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|---------------|---|--|--|
| 1. Inspection | <p>Blunt cutting edges</p> <p>Loose handles</p> <p>Worn working faces/edges</p> <p>“Mushroom” heads</p> <p>Deformed parts</p> | <p>Sharpen cutting edges to optimum profile for work to be carried out.</p> <p>Set saw teeth to allow saw blade to move in cut section without jamming.</p> <p>Check fit of handles in or on tools - replace or rectify as necessary.</p> <p>Inspect handles for splits and splinters – replace or rectify.</p> <p>Inspect heads of screwdrivers and bits for wear – discard or refurbish worn tools which will damage heads of screws, etc.</p> <p>Inspect heads of cold chisels for “mushrooming” and cracks – grind back to remove “mushroomed” section.</p> <p>Inspect spanners for damage to mouth or signs of spreading. Check operation of adjustable spanners for tightness or misalignment if jaws.</p> | <p>Use eye protection when using grinders.</p> <p>Wear leather gloves when handling sharp objects.</p> <p>Do not use tools with deformed heads.</p> <p>Do not use spanners which do not fit snugly onto nut.</p> |
| 2. Use | <p>Tools slipping</p> <p>Damage to work</p> <p>Flying objects</p> <p>Damage & breakage</p> | <p>Match the tool to the job – do not use a tool which is too small or too large.</p> <p>Do not use excessive force – spanners are designed to apply a maximum amount of torque to a bolt or nut which will not cause damage to it.</p> <p>Do not use a hammer to tighten a bolt or nut unless the spanner has been designed for the task (better to use a torque wrench which will allow the bolt or nut to be tightened to the correct torque, and not over tighten).</p> <p>Use of cutting tools (such as cold chisels) will result in risk of being struck by sharp pieces of metal.</p> <p>Do not strike tools (such as screwdrivers, spanners) unless they have been specifically designed for that purpose.</p> <p>Use hammers specifically designed for striking (e.g., engineers hammers, sledge hammers) for use with cold chisels, etc, and for hammering metal.</p> <p>Tools designed for wood working should never be used for working with metals (some “soft” metals excepted).</p> | <p>Eye protection must be worn.</p> |
| 3. Care | <p>Rust & corrosion</p> <p>Damage</p> | <p>Tools should be cleaned and dried, and lightly oiled to prevent corrosion.</p> <p>Wipe off all excess oil before placing into storage.</p> <p>Store tools in a way that protects them from accidental damage.</p> | <p>NOTE – Do not oil striking faces (hammers, chisel heads, etc) or handles.</p> |



SAFE WORK PROCEDURES HAND TOOLS

Page 2 of 2

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|---------------------------|----------------------------|--|------------------------------|
| 4. Sharpening | Flying particles | Use dressed grinding wheel to reface edges of cutting tools. “Blade end” screwdrivers should be refinished to ensure that the head fits properly into the slot of the screws. Wood working tools require finishing on an appropriate oilstone. | Eye protection must be worn. |
| 5. Refacing | Flying particles | Striking faces of hammers should be refaced when showing evidence of wear or damage. A sanding belt fitted with a belt designed for metal is the best tool for this purpose. Always ensure that the original profile of the hammer head is maintained. Badly chipped hammer heads should be discarded immediately. | Eye protection must be worn. |
| 6. Replacement of handles | | Ensure that the handle selected is the correct one for the tool. Where handle is asymmetrical, ensure that it is fitted in the correct way. Ensure that the correct wedges are used, and are driven flush with the head. Remove protruding section of handle from head before using. Check tightness of handle and wedges after a short period of use. | |

PRECAUTIONS:

1. The following precautions should be observed when using hand tools.
2. Where applicable, suitable safety and warning signs should be displayed in areas where hand tools are used.

| Flying particles | Handling rough or sharp objects | |
|---|---|--|
|  |  | |

SAFE WORK PROCEDURES HAZARDOUS SUBSTANCES

SPECIAL INSTRUCTIONS:

1. Persons handling hazardous substances must be instructed on the hazards of the substance, and the means of protecting themselves, others and the environment from exposure to the substance.
2. A hazardous substance must not be used in a workplace unless a current Material Safety Data Sheet is available.
3. A hazardous substance is defined as one which can cause physiological harm to persons, or harm to property or the environment.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|------------------|--|---|--|
| 1. MSDS Register | Exposure to hazardous substances | Obtain a current Material Safety Data Sheet (MSDS) for each substance to be used in a workplace before the substance is first used. The MSDS must provide detailed information about the name of the substance (including ingredients in mixtures, health hazard information, precautions for use and safe handling of the substance). Provide a register which contains a MSDS for each substance together with a risk assessment in each area where a substance is used. | Ensure that the MSDS is the correct one for the substance actually being used in the workplace, and is current. Replace MSDSs every 5 years. Registers must be clearly labelled and be readily available. |
| 2. Storage | Fire Spills and leaks Hazards to the environment | Chemical storage areas are to be well ventilated, and provided with flame-proof lighting where significant quantities of flammable materials are stored. Provide bunds or other methods of preventing the spread of spilt or leaked liquids. Provide adequate means to contain and clean up spills and leaks in each area where liquids are stored. Neutralising agents should be readily available for substances such as acids. Dispose of spillage only as directed on the MSDS. Store dangerous goods in compliance with local dangerous goods regulations, and provide appropriate placards where quantities stored exceed minimum quantities requiring placarding to be provided. | No smoking or ignition sources in or near storage areas. Personal protective equipment as specified in the MSDS for a substance must be readily available in case of a spill or leak. Follow local environmental protection requirements. Prevent unauthorised entry into areas where dangerous goods are stored or handled. |
| 3. Labelling | Exposure to hazardous substances | Containers of hazardous substances should be clearly labelled with the trade name of the substance, the chemical name(s) of the ingredient(s), possible harmful effects, safe handling precautions, and the appropriate dangerous goods class label or poisons label. Containers used to transfer substances during a work process should be identified with the name of the substance while containing the substance. Tanks and Intermediate Bulk Containers which are identified with a dangerous goods placard do not require to be labelled unless the substance is to be used in the workplace. | Ensure that labels are clearly visible on all containers. Ensure that correct label is fixed to container. (Note – a label should remain on the container until it is cleaned of all harmful residue). |










SAFE WORK PROCEDURES HAZARDOUS SUBSTANCES

Page 2 of 2

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-------------------------|--|--|---|
| 4. Handling | Exposure to hazardous substances Fire and explosion | Instruct all persons handling chemicals on the hazards of the substance, and the means of protecting themselves from the substance. Provide suitable respiratory, eye and body protection to all persons who are likely be exposed to a substance if adequate ventilation cannot be maintained, or if the substance poses an immediate risk to health. Eliminate and prevent all ignition sources from areas where hazardous substances are handled. Use earthing straps to prevent build up of static electricity. | Provide Safe operating instructions. Respirator, eye protection, body protection, liquid-proof gloves as required by MSDS. No smoking or ignition sources in areas where hazardous substances are handled. |
| 5. Disposal | Hazards to the environment | If applicable, neutralise spilt material with suitable neutralising agent. Place all waste and used substances in suitable containers labelled with the name and class of the substance. Dispose of waste substance at an approved chemical disposal facility. Do not allow substances to enter drains or watercourses. | Provide suitable containers for the disposal of waste substances. Do not dispose of in landfill unless authorised to do so by the relevant environmental authority. |
| 6. Emergency procedures | Exposure to hazardous substances or by-products | Procedures to remove persons who may be affected to a safe place must be provided where a spill or leak could result in a risk to health and safety. Train all persons in the implementation of emergency procedures. Clearly display emergency services contacts in areas where an emergency could arise. Emergency shower and eye-wash facilities must be provided in areas where an exposure is likely to occur. Suitable first aid facilities should be readily available in case of exposure. | Provide alternative emergency assembly areas where the areas may be affected by wind-borne substance |

PRECAUTIONS:

- The following precautions should be observed when using hazardous substances.
- Suitable safety and warning signs as indicated below should be displayed in areas where hazardous substances are stored, handled or used.

| Fire and explosion | | | Unauthorised entry | Exposure to hazardous substances (Refer to MSDS) | | | | |
|---|---|---|--|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |

SAFE WORK PROCEDURES LADDERS

Page 1 of 1

SPECIAL INSTRUCTIONS:

1. Industrial ladders only are to be used at a workplace – domestic ladders **must not be used**.
2. Always select the most appropriate ladder for a task, taking into account the nature and the duration of the task.
3. Always face a ladder to climb or descend, climb or descend slowly, using both hands on stiles (or rails if fitted).

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|---------------------|---|---|--|
| 1. Selection | Slips, falls Electric shock | Access only to roof, platform, etc., with no work process – extension ladder. Short duration and light maintenance work – step ladder is suitable. Longer duration work, more complex tasks, picking stock from shelves, racking, etc – platform ladder. Non-conductive ladders only are to be used on electrical work. | Secure ladder to prevent moving. Open legs fully and secure brace. Ensure that foot stops are in good order and working correctly. |
| 2. Inspection | Damage to ladder | Inspect stiles for cracks, splits or impact damage. Inspect reinforcing wire (if fitted) – must be intact. Inspect rungs or steps -no wear or damage, and be clean of oil or grease, etc. Non-slip ladder feet must be fitted correctly, and be in sound condition. Platform ladders must have rubber caps fitted to all feet, and legs must slide freely without binding. | Do not use ladders if damaged, worn or missing parts. |
| 3. Setting up & use | Falls Electric shock | Footwear should have a non-slip sole, and be free from oil, grease or other matter which may affect grip. Ladders should always be set up on a firm, clean, level surface. Do not “block up” under ladder feet – use ladder leveller or other sound means of provision of a sound footing. Access ladders such as extension ladders must extend at least 1 metre above the level to be accessed, and be secured against accidental movement. Ladders should be set up with a slope of 4 up, 1 out. Avoid carrying anything in the hand while climbing or descending a ladder – use other means of hauling tools, materials, etc, up to the work level. Never use a ladder as a means of crossing a space or opening. Do not use conductive ladders near electricity wires. | |
| 4. Fixed ladders | Falls | Means of preventing a person falling (such as cages, fenced platforms, ladder safety systems) are to be provided on fixed ladders | |

PRECAUTIONS:

1. Where applicable, suitable safety and warning signs should be displayed in areas where ladders are used.

SAFE WORK PROCEDURES MANUAL HANDLING

SPECIAL INSTRUCTIONS:

1. A risk assessment must be carried out of all tasks involving bodily exertion to identify activities which could result in injury to a person carrying out that task.
2. **Information, training or instruction in manual handling techniques must not be used as the sole or primary means of controlling risk unless altering the workplace, environmental conditions, the systems of work, the objects used in the task, or the use of mechanical aids are not practicable.**
3. All persons required to lift or carry loads must be trained in correct manual handling techniques, including task assessment and team lifting.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|--|--|--|---|
| 1. Assessing risk from manual handling | <p>Weight, size and shape of the object to be lifted</p> <p>Distance of the load from the body</p> <p>Height required to lift</p> <p>Frequency and duration</p> <p>Unequal loading on the body</p> | <p>There is no “safe” maximum load that a person may lift. The muscular effort required to lift, lower or carry a load is determined by the size, shape and nature of the object, and the postures, movements, forces, frequency and duration involved in the task.</p> <p>A load at a greater distance from the body will impose a greater stress on the body than a similar load at a closer distance.</p> <p>Lifting a load a higher distance places greater strain on the body.</p> <p>Increased frequency and duration of lifting increase the risk of injury.</p> <p>Lifting or carrying a load to one side or in one hand puts more stress on the body than handling the load with both hands.</p> | <p>Bigger, heavier and bulkier loads require greater effort to move them and impose a higher risk.</p> <p>The stress placed on the body is a function of load x distance. (The stress on the body is doubled as the distance from the body is doubled).</p> |
| 2. Identifying hazardous tasks | <p>Task factors</p> <p>Environmental factors</p> | <p>The following tasks must be analysed for risks due to manual handling –</p> <ul style="list-style-type: none"> • tasks with which an injury due to overexertion can be associated, • tasks which involve repetitive or sustained application of force, awkward postures, movements, high force, or sustained vibration, • manual handling of live people or animals, and • manual handling of loads that are unstable, unbalanced or difficult to hold. <p>Persons will be at greater risk of injury if they are exposed to high air temperatures, high humidity or low temperature.</p> | <p>Similar tasks will present different levels of risk to different persons due to variations in body size, strength, age, gender, experience, health, and fatigue levels.</p> <p>Risk of injury is increased when wearing heavy or thick clothing.</p> |
| 3(a). Controlling workplace factors | Workplace layout | <p>Eliminate or reduce bending movements and postures by –</p> <ul style="list-style-type: none"> • providing adjustable height work tables and workstations • minimise lifting and lowering of work objects, and • providing enough work space to allow upright working posture. <p>Eliminate or reduce twisting, reaching, pushing, pulling, holding or carrying movements when handling, carrying or storing items and materials.</p> | <p>Match work height to worker wherever possible.</p> <p>Use mechanical aids to handle and transport loads.</p> <p>Store heavier and frequently used items at waist level where possible.</p> |

SAFE WORK PROCEDURES MANUAL HANDLING

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-------------------------------------|---|--|---|
| 3(b). Controlling workplace factors | Workstation design | Design workstations so that workers are in an upright position with shoulders lowered and upper arms close to the body, with working height and objects roughly level with the worker's elbows (sitting or standing). | Provide adjustable workstations to make work height suitable for the person and the task. |
| 3(c). Controlling workplace factors | Working position | Determine the most appropriate working position for the task to be performed, taking into account the frequency and duration of the task, and the objects, equipment and tools required. Provide mixture of tasks where possible to allow a variety of postures and movements, including a mixture of standing and sitting tasks. Provide opportunities for workers performing seated or standing tasks to vary their postures and movements. | Provide properly designed adjustable chairs for persons working in a seated position. Provide stool or support, footrest and insulating floor covering (matting, duckboards, etc) for persons working in a standing position. |
| 3(d). Controlling workplace factors | Design of work and work flow | Redesign size, shape and weight of objects to eliminate handling risks. Ensure that tools, plant and equipment meet ergonomic guidelines. Organise flow of work to reduce or eliminate overload during peak periods. Reduce prolonged exposure to movements and postures by rotating tasks. | Implement purchasing controls to ensure that materials, tools and equipment do not pose a risk of injury to workers. |
| 4. Provision of aids | Lifting of loads Movement of loads | Provide mechanical aids to move and handle loads (eg, conveyors, cranes, hoists, forklifts, pallet jacks, trolleys, etc). Ensure that items for moving loads that require the use of human effort to move (trolleys, pallet jacks, pedestrian forklifts, etc) are maintained in a safe operating condition, and are not loaded in excess of their rated capacity. | Use load balancers and supports to move loads and tools. Ensure that the working load limit (WLL) is clearly displayed on equipment to prevent overloading. |
| 5. Training of workers | Movement of loads Manual movement of loads | Training needs will depend on the task(s) to be carried out and the risks. Workers must understand – <ul style="list-style-type: none"> • what sort of manual handling is hazardous • the effects on the body, and how injury can be prevented, and • how to select and use appropriate risk controls such as mechanical aids and safe systems of work. Training in how to select and use appropriate manual handling techniques should be conducted by an appropriately skilled person, who is conversant with the causes, effects and prevention of manual handling injuries. The training should include information pertinent to the types of loads to be moved, correct lifting postures and techniques, and team lifting procedures where team lifting is carried out on a regular basis. Supervisory staff must also be trained in safe manual handling techniques. | Information, training or instruction in manual handling techniques must not be used as the sole or primary means of controlling risk unless altering the workplace, environmental conditions, the systems of work, the objects used in the task, or the use of mechanical aids are not practicable. The capacity of a team during a lift is reduced by 10-20% for a 2 person lift and more for 3 or more. |

SAFE WORK PROCEDURES

MOBILE CRANES








SPECIAL INSTRUCTIONS:

1. Only those persons who are holders of the appropriate Certificate of Competency or license are to operate a mobile crane.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|------------------------|--|--|--|
| 1. Pre-start checks | Mechanical failure | Inspect booms and jib regularly for evidence of damage or distortion. Check fluid and oil levels, and inspect hoses, pipes and rams for leaks. Inspect tyres, check lights, steering, horn, flasher, steering, and controls. Inspect winch cable, hook, slings and chain sets, rings and terminal fittings. Check that load chart is fitted, and operation of load gauge (if fitted) Ensure that basic PPE for construction site work is on board and worn. Ensure that log books are up to date, on board and available for inspection. | Report any damage or distortion immediately – do not use crane until it is inspected and deemed safe to use by a competent person. Wear head, eye and foot protection, and high-visibility garment on construction sites. |
| 2. General precautions | Unsafe site conditions | Check access to site or job, and what ground conditions can be expected. Check type and weight of loads to be lifted, and whether special fittings will be required (eg, plate lifters, spreader bars, etc.). Check for additional PPE needed over usual construction site requirements. Check whether dogman (if required) will be on site or must be provided. Obtain name and details of person who will be in charge of work on site. | Pads or packing must be available. Special fittings should be available for difficult loads or locations. Loads over 1 tonne or complex or unusual loads must only be slung by a qualified person. |
| 3. Travel | Obstructions | Plan route to job to ensure that travel will not be affected by traffic, road works, low bridges, or other obstructions or restrictions. Ensure that safe travel speed of crane will not cause traffic problems. | Select route with adequate width and height clearances. Avoid freeways, etc. |
| 4. Site safety | Electric shock Traffic and collision Persons being struck Overturning | Check clearance under overhead electric wiring to maintain safe distance. Ensure that planned access to actual work area is not obstructed. Liaise with site contact to find out who will be supervising the work on site, and obtain any specific instructions relating to the job to be done. Traffic controller will be required where crane operations will be subject to disruptions from other traffic on site. Where working on or in near vicinity to roadways, lane closures and traffic control may be necessary to ensure safety of motorists and public. Working area where crane is to work should be restricted access only. Ensure that adequate room is available to access materials, etc, to be lifted, and that sufficient space to manoeuvre with the load is available. Check ground conditions to make sure that the crane will remain stable. If necessary, place pads or packing under outriggers to ensure the stability of the crane when lifting loads. Exercise care when operating a pick and carry mobile crane on sloping ground to not exceed | Use an observer when operating or travelling under low wiring. Observe directions of traffic controller. Permit to work may be required. Use correct road work signage. All persons in area must wear high-visibility garments. Do not lift loads unless crane is on a sound, stable surface. |

SAFE WORK PROCEDURES MOBILE CRANES

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| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|--|--|---|--|
| 5. Slinging and fittings | <p>Failure and breakage</p> <p>Selection and use</p> <p>Uneven and long loads</p> <p>Heavy loads</p> | <p>Carefully inspect all hooks and fittings, slings and chain sets, etc, before use for evidence of wear, damage or distortion. Dispose of or destroy if faulty.</p> <p>Select lifting gear which is most suitable for the load to be lifted, and which will not result in damage to either the load or the lifting gear.</p> <p>Load tables on sling sets must be used when using multi-legged sling sets.</p> <p>Exercise care not to overload individual legs when slinging uneven loads.</p> <p>Use strongback when lifting long loads to reduce angle between sling legs.</p> <p>Check mass of heavy loads to ensure that safe lifting capacity is not exceeded, and that capacity of slings and chain sets is not exceeded.</p> | <p>Worn, damaged or distorted gear MUST NOT BE USED.</p> <p>Hooks must have safety latch.</p> <p>Avoid twisting of chain legs which can cause ring to turn out of hook.</p> <p>Uneven, flexible loads, and loads over 1 tonne must be slung by a certificated dogman only.</p> |
| 6. Operation | <p>Overturning – outrigger cranes</p> <p>Overturning – pick and carry cranes</p> <p>Electrical hazards</p> | <p>Ensure that outriggers are placed on firm, level, and stable surface.</p> <p>Do not exceed safe loads as specified on the crane's load charts.</p> <p>Do not lift with crane when wind speeds exceed the recommended safe wind speeds listed in the manufacturer's operating manual.</p> <p>Exercise care when lifting with a pick and carry crane on sloping ground, as side slope will drastically affect the stability of the crane under load.</p> <p>Carry loads as close to the ground as possible to reduce overturning risk.</p> <p>Always carry the load on the "uphill" side of the crane where possible.</p> <p>Use tail ropes on loads to prevent swinging while being carried.</p> <p>Ensure that cables and loads being slung do not come into close proximity to electric wiring and installations.</p> | <p>Level crane on before lifting.</p> <p>Add mass of sheaves, fittings, etc.</p> <p>Allow for mass of fly jib (if fitted) when calculating total mass that can be lifted safely.</p> <p>Refer to side deterioration charts.</p> <p>Travel should be up and down slopes, not across slopes.</p> <p>Avoid holes, bumps if possible.</p> <p>Use observer to ensure that safe approach distance is maintained.</p> |
| 7. Maintenance and repairs | In-service failure under load | <p>Repairs to any load –bearing part of the crane (jibs, winches, etc) must be carried out by a competent person who is authorised to carry out the work, and be inspected (if necessary) by the certifying authority before being returned to service.</p> <p>Approved parts and fittings only must be used for load-bearing purposes.</p> | <p>All repaired or new parts must comply with instructions and manufacturer's specifications.</p> <p>Requirements of any applicable Standard must be followed.</p> |
| PRECAUTIONS: The following precautions are to be observed in areas where these procedures are carried out. | | Minimum requirement for work on construction sites | Additional protection that may be required |
| | |     |    |

SAFE WORK PROCEDURES NAILING TOOLS

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SPECIAL INSTRUCTIONS:

1. Only those persons who have been trained in the safe use of and who are authorised to do so are to operate nailing tools.
2. Areas where nailing tools are used are to be clearly identified with appropriate warning signs.
3. “Bump fire” operation is to be done only by operators who have been specifically trained to operate safely in this mode, and in only in specially laid out work areas.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|------------------------|---|---|---|
| 1. General precautions | Air supply Pre-use inspection Maintenance Air supply | Check correct air supply and pressure before connecting the tool. Inspect tool for damage, and ensure that it is in good working order. Check that the tool is correctly and securely connected to the air hose. Check operation of all controls and safeguards before loading fasteners. Use only the correct tools to undo screws and bolts. Air supply must be fitted with water trap and oiler. | Check tool safety mechanisms. Prohibit unauthorised repairs. Do not use air from cylinders. |
| 2. Preparation | Loading fastenings | Only use fasteners as approved by the manufacturer for the tool. Remove tool from air supply to load fasteners into the tool. | |
| 3. Work area | Entry into work area Flying objects | Restrict entry into work area to those persons involved in nailing only. Arrange work so that other persons will not be in the line of fire of a tool. | Restrict unnecessary access. |
| 4. Operation | Flying projectiles Accidental firing “Bump firing” Flying particles Noise Damage to tool | Never point a nailing tool at another person – never assume tool is empty. Do not depress or hold down trigger unless nose piece is firmly pressed against the work piece to be fastened. “Bump fire” guns must not be used on ladders or other elevated areas. Do not overreach, and keep proper footing and balance when operating. Chips, dust, fasteners, etc, may be ejected from tool and work when firing. Hazardous noise levels will be present, especially in enclosed areas. Provide a safe place where a nailing tool can be placed between uses. | Type 1 footwear must be worn. Keep fingers away from trigger until ready to fire. Use sequential firing type of tool. Keep hands clear of firing area. Eye protection must be worn. Wear hearing protection . |

PRECAUTIONS:

1. The following precautions are to be observed when using nailing tools.
2. Suitable safety and warning signs as indicated below should be displayed in areas where nailing tools are used.

| Operation | | | | |
|---|---|---|---|--|
|  |  |  |  | |

SAFE WORK PROCEDURES OVERHEAD CRANE

SPECIAL INSTRUCTIONS:

1. Only those persons who have been trained in the use of and who have been authorised to do so are to operate an overhead crane.
2. Loads over 1 tonne in weight or complex loads should only be slung by a suitably qualified person who holds the qualification of dogman or rigger.
3. A pendant-operated or remote-operated bridge crane having no more than 3 powered operations can be operated by a competent person who has been trained in the operation of the crane.
4. Cranes with additional operations or cranes operated from a cabin mounted on the crane must only be operated by a person holding the appropriate qualification as a crane operator.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|--------------------------------------|---|--|--|
| 1. Inspection of crane | Movement of components Overloading of crane Controls | Ensure that crane moves freely on the rails, and that locks or clamps (if fitted) hold bridge firmly in the selected position. Check for free movement of carriage across bridge. Check operation of winch and any fitted lifting components. Ensure that the working load limit (WWL) of the crane is clearly displayed on or adjacent to the crane. Controls on pendants or remote controllers should be clearly identified with both the function and the direction that the button or switch controls. <u>Control directions must be clearly displayed on the underside of the crane.</u> | Do not use if faulty or damaged. Do not overload crane or lifting equipment. |
| 2. Checking of slings & lifting gear | Failure of parts Overloading of parts Cuts, penetration injury | All slings, chains, terminal equipment (such as shackles, links, etc) must be inspected for excessive wear or damage before and following use. All slings and parts must be clearly stamped, tagged or otherwise marked with the working load limit of the equipment. Check all wire rope slings for broken wires; discard if over 10% of wires are broken in one rope lay or any length of the rope equal to 8 times the diameter of the rope. | Faulty or defective equipment must not be used. Observe all load limit data and tables when slinging loads. Use leather or cut-resistant gloves when handling wire ropes. |
| 3. Slinging of loads | Overloading of gear Cuts, hand injuries Damage to slings Stability of load Damage to load | Ensure that method of slinging does not result in the loads in excess of the working load limits of lifting gear. Cut-resistant gloves must be worn when handling rough or sharp objects. Avoid contact of slings with sharp corners and edges of loads. Use shortening links to shorten legs of chain sling sets. Ensure that slings or parts cannot slip or move when load is applied. Provide packing or insulation where a sling could damage the load. | Refer to slinging tables. Hand protection must be worn. Provide packing to reduce bends. Do not use bolts to shorten legs. Check slinging before lifting load fully. |







SAFE WORK PROCEDURES OVERHEAD CRANE

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| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|----------------------|--|---|---|
| 4. Movement of loads | Falling objects Foreign body in eyes Objects striking Load swinging Striking other persons | Loose parts must be placed in a cage or box; do not lift on an open pallet. Loose or dislodged parts will create a risk of head injury. Falling objects will create a risk of injury to the feet. Dust and other particles falling from loads will create risk of eye injury. Exercise care when moving long objects which could swing when moving. Avoid sudden movements or jerking when travelling. Slung loads should not be moved over other persons. | Head protection must be worn. Type 1 footwear must be worn. Eye protection must be worn. Use tail rope to control long loads. Use tail rope to control movement. Prevent unauthorised entry. |
| 5. Depositing loads | Damage to load Damage to slings Risk of foot injury | Ensure that location where load is to be deposited is clear of obstructions. Provide packing or dunnage under loads when lowering on to ground to avoid crushing and other damage to slings and gear. Do not use crane to pull caught slings from under loads. Keep feet clear of loads being deposited on ground. | Hand protection must be worn. Type 1 footwear must be worn. |

PRECAUTIONS:

- The following precautions are to be observed when using overhead cranes.
- Suitable safety and warning signs as indicated below should be displayed in areas where overhead cranes are used.

| Checking gear | Slinging and movement of loads | | | | Entry to work area | |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  | |

SAFE WORK PROCEDURES POWER TOOLS (ELECTRIC)

SPECIAL INSTRUCTIONS:

1. Electric power tools should not be used unless the operator has received training or has been fully instructed in the safe use of the tool.
2. Appropriate personal protective equipment must be worn when using power tools.
3. Electric power tools must only be used on circuits protected by a residual current device (RCD) and/or safety switch.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|---|---|--|--|
| 1. Pre-start checks | Electric shock Cuts, lacerations | Check casing for damage, cracks and missing screws. Inspect lead and plug for damage; current test tag must be attached. Make sure that controls operate smoothly. Where applicable, ensure that guards are fitted and operating correctly – guards should move easily, and spring back to original position when released. Check suitability of blade, bit or cutter for work to be performed. If using fibre blade for metal cutting, inspect blade for cracks, damage, or excessive or uneven wear. Ensure that handles and grips are fitted firmly, and do not move. | If any damage, missing parts, or out of test, do not use machine – arrange for immediate repairs. Do not use tools without guards, or lock or tie guards in open position. Do not use unsuitable parts. Replace blade if teeth chipped, broken or missing. |
| 2. Maintenance and replacement of cutters | Cuts, lacerations Foreign body in eye | Place machine on firm, stable surface or bench to carry out maintenance. Use correct (supplied) spanners and tools to remove cutter. Use brush to clean dust and debris from guards, spindles and backing plates. Ensure spindle thread is undamaged, and that backing plate sits flush. Ensure that blade speed matches that of a saw; that the spindle holes match the diameter of spindles, and that spindle diameters of cutters match that of the cutter holder. Mount blades, cutters, washers and nuts in correct order, and tighten firmly with the correct tools and spanners. | Wear leather gloves when handling rough or sharp parts. Wear eye protection if using compressed air for cleaning. Do not use incompatible cutter, or cutter which does not meet all of the criteria listed at left. Ensure all surfaces are clean. Do not over tighten nuts. |
| 3. Preparation of work area | Slips, trips and falls Fire (ignition source) Flying particles Falling objects | Ensure that floor or working surface is free from rubbish and debris, and that a good foothold is available for persons using power tools. Ensure that flammable liquids or other readily ignited materials are cleared from area, or covered to protect from sparks. Observe fire restrictions. Prevent sparks from entering or affecting adjacent work areas. Restrict entry into area where grinding is to be carried out. Ensure that object being worked on is secured and prevented from accidental movement while work is in progress. | Provide suitable fire extinguisher . Use fire blanket to cover. Use welding curtain or similar. No unauthorised entry to area. Wear Type 1 footwear . |

SAFE WORK PROCEDURES POWER TOOLS (ELECTRIC)

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| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|------------------------|--|--|--|
| 4. Operation | <p>Flying particles</p> <p>Cuts, lacerations</p> <p>Foreign body in eye</p> <p>Noise</p> <p>Dust</p> <p>Vibration</p> <p>Falling objects</p> | <p>Always work so that sparks and debris are directed away from body.</p> <p>Do not direct sparks or debris towards another person.</p> <p>Always cut away from the body – never cut towards the body.</p> <p>Avoid dust and debris in eyes – eye protection must be worn.</p> <p>In restricted areas, or where sparks or debris are reflected back towards the user, the use of additional protection to the eyes and face will be necessary.</p> <p>Many power tools will generate high noise levels in operation, especially in enclosed or restricted areas.</p> <p>Provide mechanical ventilation where dust generated by the work process will hang in the air, and will be breathed in or lodge in eyes.</p> <p>Uneven surface being ground will cause movement of grinder in hands.</p> <p>If vibration seems excessive, switch grinder off and inspect disc for damage.</p> <p>Support work pieces as fully as possible to prevent falling when cut.</p> | <p>Wear protective clothing (apron, overalls, long sleeves and trousers)</p> <p>Eye protection must be worn.</p> <p>Use face shield in addition to other eye protection.</p> <p>Wear hearing protection.</p> <p>Wear suitable particulate dust mask or respirator.</p> <p>Wear heavy gloves or gauntlets to reduce the effects of vibration.</p> <p>Wear Type 1 footwear.</p> |
| 5. Special precautions | <p>Toxic dust</p> <p>Harmful dust</p> <p>Risk of fire</p> <p>Risk of electric shock</p> | <p>Medium density fibreboard (MDF) (Craftwood) contains a formaldehyde based adhesive which is toxic, and dust must not be inhaled.</p> <p>Prevent entry of persons into areas where MDF is being worked on.</p> <p>Asbestos based materials must never be cut using power tools.</p> <p>Avoid breathing dust generated by cutting of metal with circular saws fitted with fibre blades.</p> <p>Fine sawdust is extremely and readily combustible.</p> <p>Take care to not expose leads to damage from the work process.</p> <p>Always ensure that users of power tools are protected from electric shock.</p> | <p>Type P2 particulate dust mask or respirator must be worn.</p> <p>No unauthorised entry.</p> <p>Dust mask must be worn.</p> <p>No smoking in areas where sawdust may be present.</p> <p>Keep leads off floor.</p> <p>Always use safety switch or RCD.</p> |
| 6. Storage | <p>Risk of electric shock</p> <p>Risk of personal injury</p> | <p>Power tools should be stored in a purpose-built case or container designed to protect them from damage.</p> <p>Cutters, drill bits, etc, which may be damaged during storage should be removed before storing the tool.</p> <p>Drills, cutters, blades and bits should be stored separately in a container which will prevent them being damaged.</p> <p>Where possible, ensure that sufficient supplies of personal protective equipment which will be required when the tool is used are available with the tool.</p> | |

SAFE WORK PROCEDURES POWER TOOLS (ELECTRIC)

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PRECAUTIONS:

1. The following precautions should be observed when using electric power tools.
2. Where applicable, suitable safety and warning signs should be displayed in areas where electric power tools are used.

| Cuts, lacerations | Vibration | Flying particles | Falling objects | Noise | Dust | Risk of fire | Unauthorised entry |
|---|---|--|--|---|--|--|---|
|  |  |   |  |  |   |   |  |

SAFE WORK PROCEDURES RUBBISH AND WASTE DISPOSAL

SPECIAL INSTRUCTIONS:

1. The following items **must not** be disposed of as general waste - asbestos or asbestos containing products, sharps, biological and clinical waste, paints, oil, fuels, and waste chemicals. (See also Asbestos and asbestos containing materials, Chemicals (Hazardous materials), Combustible Liquids).
2. Most waste products can be sorted at recycling facilities. Consult local recycling authority for specific instructions or requirements for recycling.
3. **N0** smoking or open flames to be allowed in areas where waste of **any** type is stored or handled.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|------------------------|---|--|---|
| 1. General waste | Cuts, scratches, etc | General industrial and commercial waste can be disposed of in landfill. Sort waste to separate recyclable items from non-recyclable waste. Follow recycling instructions as provided by the recycling facility. Note: | Hand protection should be worn. Provide bins for recycling. |
| 2. Scrap metal | Cuts, lacerations Falling objects Strain injury | Scrap metal should be sorted into types for disposal at a scrap metal facility. Separate bins should be provided for different metals. Keep scrap metal free from other contaminants. Obtain assistance or utilise mechanical aids to move large and heavy objects. | Hand protection must be worn. Wear Type 1 protective footwear. Observe recommended manual handling practices. |
| 3. Putrescible waste | General health risk Vermin Odours | Bins and receptacles to be emptied and washed daily. Keep putrescible waste containers closed and sealed. Keep containers in cool place if possible to reduce putrescence. | Hand protection should be worn. Wash and disinfect areas where putrescible waste held. |
| 4. Paper and cardboard | Cuts, scratches Over-exertion/strain injury | Keep waste paper and cardboard free from other waste products. Do not place paper waste into plastic bags for disposal. Keep bundles and containers of paper waste within safe lifting limits. | Hand protection should be worn. Observe recommended manual handling practices. |
| 5. Glass | Cuts Over-exertion/strain injury | Glass waste should be kept in metal or heavy plastic containers. Avoid re-handling of broken glass. Use mechanical means to handle containers of glass. Do not contaminate glass with vitreous waste material (eg, china, etc). | Wear leather or other cut-resistant gloves to handle glass. Adopt correct manual handling practices. |
| 6. Plastics | Cuts, scratches | Cut or damaged edges of plastic containers may be extremely sharp. Plastics will produce hazardous gases and smoke when burnt. | Hand protection should be worn. |
| 7. Sharps | Cuts, scratches, needle-stick injury | Sharps should be enclosed in metal or plastic containers for disposal. Used syringes, etc, must be placed in a specifically marked container which will not allow the items to be removed from the container. | Puncture-resistant gloves must be worn when handling sharps. |









SAFE WORK PROCEDURES RUBBISH AND WASTE DISPOSAL

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| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|----------------------------------|--|--|--|
| 8. Biological and clinical waste | Infections, needle-stick injury | All bio-waste must be placed in containers which carry the international bio-hazard symbol. Persons handling biological or clinical waste should wear appropriate hand and body protection at all times. Eye and face protection must be worn where a risk of splash of body or similar fluids may be present. A P1 particulate filter mask may be required when handling bio-waste where larger quantities and risk of splashes exist. Used syringes, etc, must be placed in a specifically marked container which will not allow the items to be removed from the container. Prevent unauthorised access to biological and sharps waste. | Hand, body, and eye protection must be worn. P1 particulate mask may be required. No unauthorised entry. |
| 9. "Green" waste | Over-exertion, strain injury | Fresh vegetation waste will contain a high percentage of water. Avoid contact with sap and other fluids which may be irritating to eyes and skin. | Observe correct manual handling procedures. Hand protection must be worn. |
| 10. Building waste | Splinters, sharp objects Over-exertion, strain injury | Check building waste for presence of hazardous materials, which should be separated from general waste. Dampen down dusty materials with water. Exercise care when handling materials which could be sharp or contain sharp objects (nails, glass, metal, etc.). Exercise care when handling large or heavy objects – obtain assistance if necessary. | Foot protection must be worn. Dust mask may be required. Hand protection must be worn. Observe correct manual handling procedures. |

PRECAUTIONS:

- The following precautions should be observed when handling rubbish and waste.
- Suitable safety and warning signs should be displayed in areas where rubbish and waste is handled and disposed of.

| Hand protection | Eye protection | Dust mask | Foot protection | Body protection | Biological waste | Risk of fire | |
|---|---|---|--|---|---|---|---|
|  |  |  |  |  |  |  |  |

SAFE WORK PROCEDURES

SAFETY HARNESSES

SPECIAL INSTRUCTIONS:

1. All fall arrest harnesses in Australia must comply with Australian Standard AS 1891.1 Industrial fall-arrest systems and devices – Safety belts and harnesses.
2. Safety harnesses must only be used for the purpose for which they were designed, and in strict accordance with the manufacturer's instructions.
3. All persons required to use a safety harness must receive instruction and training in their use before they are allowed to use the harness.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|---------------|---|---|---|
| 1. Marking | All belt, harness and lanyard assemblies and fall-arrest assemblies must be clearly and indelibly marked or permanently labelled by the manufacturer with the relevant information listed in the column at right. | <ol style="list-style-type: none"> 1. The designation of the device, e.g., 'pole strap', 'lanyard assembly', etc, 2. The manufacturer's name, trade name or trade mark, 3. The serial number of the device, 4. The maximum allowable free fall (for lanyard assemblies and fall-arrest harnesses), 5. Any necessary instructions for assembly, fitting and putting-on, 6. A statement indicating that the device has a specific application (if applicable), 7. A statement indicating that the device is designed for use in one or more specific configurations together with any applicable limitations, e.g., attachment points (if applicable), 8. The location of the primary load-bearing attachment hardware for the attachment of lanyard assembly, pole strap or restraint line, and 9. The month and year by which the device must be taken out of service (this must be no more than 10 years from the date of manufacture). | <p>Harnesses must only be used for the purpose for which they were designed.</p> <p>Use of harnesses for purposes other than those for which they were designed may result in failure of the device to provide the desired level of protection, or expose the wearer to unacceptable risk levels in the performance of the task being carried out.</p> <p>Safety harnesses more than 10 years old must not be used.</p> |
| 2. Inspection | Equipment is to be removed from service if any of the conditions listed at right are detected during inspection. | <ol style="list-style-type: none"> 1. Equipment is more than 10 years old, 2. Labels have been removed, or are missing, illegible or obliterated, 3. The device has been exposed to extremes of temperature (hot or cold), or if there is evidence of melting, stiffness or charring, 4. It has suffered damage from acids, caustics or organic solvents, 5. The device shows signs of excessive wear (e.g., "furry" or frayed), 6. The device shows signs of excessive general corrosion, pitting corrosion, or any cracked, distorted, burred, worn or broken hardware, 7. Knots in any part of the equipment, 8. Loss of resilience, discolouration, or other visible damage that causes doubts as to the strength of the equipment or its ability to withstand potential overloading, | <p>Faulty or out-of-date equipment must not be used.</p> |


SAFE WORK PROCEDURES SAFETY HARNESSES

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| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|----------------------------|---|--|--|
| 3. Inspection (continued) | Equipment is to be removed from service if any of the conditions listed at right are detected during inspection | 9. Part mechanisms are not moving freely, 10 Reduction in the cross-sectional area of rope or webbing, or loose or unravelling of fibres, strands or stitching, or 11. Excessive contamination not able to be removed by approved cleaning methods. | Faulty or out-of-date equipment must not be used . |
| 4. Use | Persons falling | Lay out harness after inspection to ensure that it is not “crossed” or tangled. Attach lanyard assembly to attachment point on rear of harness. Put on to body as any other garment of a similar type. Connect buckles, ensuring that belts are not crossed or twisted. Tighten belts until harness is firm on body (does not need to be over tight). Ensure that a full range of movements can still be carried out while wearing the harness. Recheck all belts and buckles – if any movement evident, harness should not be used . | Harnesses must be fitted correctly for safety in use. Return device to manufacturer or supplier for attention, or discard. |
| 5. Withdrawal from service | Equipment must be removed from service if either of the events listed at right occur. | 1. The equipment is involved in a fall, or 2. The equipment is more than 10 years old. | Stressed or out-of-date equipment must not be used . |
| 6. Maintenance | | Normal cleaning of synthetic textile materials can be carried out with a mild soap and warm water. | Contact manufacturer or supplier for specialist advice on cleaning. |

PRECAUTIONS:

- Where applicable, suitable safety and warning signs should be displayed in areas where safety harnesses are required to be used.

| Use of safety harness | | | | | | |
|---|--|--|--|--|--|--|
|  | | | | | | |

SAFE WORK PROCEDURES SCAFFOLDING

SPECIAL INSTRUCTIONS:

1. All scaffolding from which a person or object could fall 4 metres or more must be erected by a person holding a Certificate of Competency as a Scaffolders.
2. All scaffolding other than prefabricated types must be erected by a scaffolder.
3. Appropriate controls must be implemented to prevent unauthorised access to unattended scaffolds.
4. Do not work closer than 4.0m to electrical service lines unless insulated matting and tiger tails are fitted by a person authorised by the electricity supply authority.
5. The safe working load of any component of the scaffold must not be exceeded. SWL should be marked on all scaffolds.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|------------------------|--|--|--|
| 1. General precautions | Space restrictions Working height Assembly | Component scaffolds generally have minimum width of 1.2m, max. 3.0m. Freestanding scaffolds must not exceed 3 times the minimum base dimension in height – ties or outriggers are required above this height. Always follow manufacturer's assembly instructions when erecting scaffold. Competent persons only are to erect scaffolding. Use only components designed and provided for the type of scaffold. Appropriate warning signs must be fitted to unattended incomplete scaffolds to prevent unauthorised access. Check the stability of the completed scaffold before allowing any person to climb on to or work from the scaffold. | Ensure that all components are fitted together correctly. Ensure that all mating surfaces are clean and undamaged. Do not mix components. Use barrier tape, etc, to prevent unauthorised access. Do not climb on to or work from an unstable scaffold. |
| 2. Erection – Fixed | Foundation Footings Bracing | Ensure that footings are firm (compacted), well drained, and stable. Timber sole boards and baseplates must be used under feet on soft surface. Use levelling screws to ensure that all uprights are vertical and that all feet are in firm contact with the surface on which it is erected. <u>Fit plan and vertical bracing to ensure stability of scaffold.</u> | Dig into slopes for level footing. Do not use metal plate under feet. Ensure that collar locking device on base frame is properly engaged. |
| 3. Erection – Mobile | Foundation Castors Bracing | Mobile scaffolds should only be used on a firm, level, and stable surface. Ensure that all wheels turn smoothly, and that all wheel locks are operable. Use levelling screws to ensure that all uprights are vertical and that all wheels have full contact with the surface on which it is erected. <u>Fit plan and vertical bracing to ensure stability of scaffold.</u> | Mobile scaffold must not be used on slope of more than 7 degrees. All wheels must have locks fitted. Ensure that all wheels are locked during erection of scaffold. |
| 4. Access | Position of ladders Security of ladders | Access ladder/s must be fitted inside the scaffold assembly for access to the working platform. Ladders must be hooked over the end frame, be braced to a lower end frame, and extend at least 0.9m above the working platform. | Climbing on scaffold frame should not be avoided. Never climb up the outside of a scaffold. |
| 5. Working platforms | Construction of platform Guardrails and edge protection | Working platform should be a "captive" type which locks onto the frame. Working platform surface should be non-slip finish. Never place a loading greater than the marked SWL on a working platform. Each working platform and access platform must have full edge protection comprising handrail, midrail and toeboard or a handrail and infill panel. | The load on the platform includes the weight of all persons, plus tools, materials and equipment. Top rail should be between 0.9m and 1.1m above working surface. |




SAFE WORK PROCEDURES SCAFFOLDING

Page 2 of 2

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-----------------------------------|---|---|--|
| 6. Working on scaffolds | <p>Risk of falling</p> <p>Falling objects</p> <p>Electrical hazards</p> | <p>Always face ladder, climb slowly, keep both hands on stiles. Use rope to raise tools, material and equipment to working platform. Do not reach out from scaffold beyond arms length. Keep whole of body within confines of guardrails. Do not use ladders of any type from a working platform of a scaffold. Hoisting equipment must not be attached to scaffold unless explicitly indicated that it is safe to do so by manufacturer or supplier. Wear protective footwear if material or equipment being handled or used could pose risk of foot injury should it fall. Provide exclusion zone around scaffold where risk of falling objects is present (if practicable). Head protection must be worn by persons working in vicinity of scaffold if risk of being struck by falling objects exists. Exercise care when handling metal objects in vicinity of electric wiring.</p> | <p>Climb and descend ladders safely. Do not carry objects in hand while climbing or descending ladder.</p> <p>Work only from working platform. Exercise care when raising tools, equipment and materials to working platform. Foot protection must be worn. Erect containment screen around scaffold if exclusion zone cannot be provided. Head protection must be worn. Keep clear of electrical hazards.</p> |
| 7. Relocation of mobile scaffolds | Stability – mobile scaffolds | <p>Ensure that scaffold wheel locks are engaged before any person climbs on to or works from the scaffold. A scaffold must not be moved while any person is still on the scaffold. The path of travel of a mobile scaffold should be checked for obstructions, holes, electric leads and wires, etc, before moving the scaffold. Check the stability of the scaffold before re-using after relocating – relock wheels and adjust levelling screws if necessary.</p> | <p>Remove loose items before moving. Move scaffold carefully to avoid tipping over.</p> |

PRECAUTIONS:

- The following precautions are to be observed, and suitable safety and warning signs as indicated below displayed in areas where scaffolding is used.

| Unauthorised access to scaffold | Working on scaffold | |
|---|---|--|
|  |   | |

SAFE WORK PROCEDURES

SCISSOR LIFT

Page 1 of 1




SPECIAL INSTRUCTIONS:

- Persons should not operate a scissor lift unless they have been instructed in the precautions to be observed and the safe use of the machine.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-------------------------|--|---|--|
| 1. Pre-start checks | Loss of power Loss of control Risk of falls Accidental movement | Ensure that the battery (or batteries) is fully charged before using the scissor lift for any working at heights. Check liquid levels (fuel, oil, coolant, hydraulic oil, etc) before operation. Check all controls for correct operation before commencing use. Check all movements before commencing – should be smooth and steady. Check operation of brakes, stops, outriggers, etc to ensure that unit cannot move when platform is extended. Ensure that guard fence and gate/s is secure and closes securely. | Do not use if battery power is low. Recharge battery before use. Top up liquids if levels are low. Do not use faulty equipment. Do not use if movements “jerky”. Do not use if brakes or stops do not prevent all movement of unit. Check operation of gate latch. |
| 2. Travel | Instability | Reduce speed when traversing corners, rough surfaces or where visibility is restricted (eg, blind corners, etc). Platform should be lowered before moving unit even for short distances. Keep body fully within confines of platform when travelling. | Always travel at safe speed. Corner at slow speed only. Do not travel with platform raised. Ensure that gates on cage closed. |
| 3. Security of worksite | Collision Falling objects | Use barricades, traffic cones and signs, etc, to prevent collision of other plant or vehicles working in vicinity with scissor lift. Prevent access of persons into vicinity of scissor lift when platform raised. | Use signs barricades, cones, etc, to protect work area. Prevent unauthorised entry. |
| 4. Working at heights | Instability Electric shock | Ensure that unit is on level surface (or is levelled with outriggers if working on uneven surfaces) before raising platform. Ensure that gates on platform guard rails are closed and locked in place. Do not reach out beyond confines of platform when working at heights. Do not “rock” unit when platform is raised. Keep safe distance from overhead catenary wires and electrical installations, or have services isolated and locked out before starting work in vicinity. | Ensure that unit is parked on a stable, firm surface before raising. Do not open gates when elevated. Wear safety belt or harness. Avoid sudden or jerky movement. Identify electrical hazards before commencing work. |

PRECAUTIONS:

- The following precautions are to be observed when operating or working in the vicinity of scissor lifts.

| Prevention of unauthorised entry | Working at heights | Falling objects | |
|---|---|--|--|
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SAFE WORK PROCEDURES STATIC LINE SYSTEMS

SPECIAL INSTRUCTIONS:

1. Static line systems must be set up in accordance with configurations and comprised of components prescribed in AS/NZS 1891.2 Horizontal lifelines and rail systems.
2. Static line systems must be installed a person holding a Certificate of Competency as a rigger or scaffolder (NSW, ACT, Qld (“high-risk” construction work)), or by a competent person in other states.
3. Fall arrest systems should only be used in situations when it is not reasonably practicable to use either temporary work platforms or guardrails.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|--|--|---|--|
| 1(a). Selection of components – Permanent installations | Failure of lines under load Anchorages and fittings | Permanent lifelines (service life greater than 6 months) must incorporate galvanised steel wire rope or chain, or other approved line material. Metal components must be either resistant to or protected from corrosion. Brackets, shackles or other devices used in intermediate anchorages must be installed so that they cannot jam the cable or themselves. Apertures in fittings must be as nearly at right angles as possible to the direction of the line in both the vertical and horizontal planes. | Components must conform to the relevant Australian Standard for those components. End anchorages must comply with AS/NZS 1891.2. All other components must comply with the relevant Australian Standard. |
| 1(b). Selection of components – temporary installations | Failure of lines under load Anchorages and fittings | Temporary lifelines may be constructed of approved load-bearing components such as fibre or synthetic rope, rope or webbing slings, steel wire rope or chain slings, or round slings. Breaking strain of slings after derating due to manner of rigging is to be 2x for steel wire rope or 4x for fibre rope or webbing slings. Approved anchors and fittings only are to be used to anchor static lines. | Ropes and slings must conform to the relevant Australian Standard. Slings must be installed with all slack removed. |
| 2. Attachments | Compatibility of fittings Safety of fittings | A restraint or fall arrest system must be comprised of items which are compatible with one another, with negligible risk of accidental release of connections. A means of passing an intermediate anchorage without disconnection from the system must be used by all users of the system (such as use of a second lanyard, dual attachment lanyard, or mobile attachment device). Fall arrestors must be a quick-activation type to limit the amount of free fall to as short a distance as possible. Do not connect large-throat opening snap hooks to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates. Karabiners must be fitted with a screw gate to prevent accidental opening. | All systems must be installed by a competent person only. Mobile attachment devices must be permanently fixed to the system or require 2 consecutive deliberate manual actions to remove. Double-acting type snap hooks only must be used. |
| 3. Installation of static lines | Anchorage points | Select anchor points which will resist the maximum likely impact force. Note – roof trusses must only be used as attachment points if the truss supplier specifies that it is safe to do so. A method of preventing the person carrying out the installation falling from the roof should be used when installing roof anchor points and lifelines. | Correct roof attachment fittings for the type and construction only must be used to anchor lifelines. Manufacturer’s instructions for installation must be followed. |

SAFE WORK PROCEDURES STATIC LINE SYSTEMS

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|--------------------------------------|---|--|---|
| 4. Inspection of parts | Static lines Harnesses and fittings | Inspect lines, fittings and anchorages before first use and then at regular intervals to detect any faults, corrosion or damage. Any harness, safety line or other component that shows wear or damage to the extent that it may cause the device to fail MUST NOT BE USED . Ensure that hook is fully closed and has not become entangled in clothing. | Visually inspect static line for faults before each use. Do not use faulty equipment. Inspect hooks for correct operation before each use |
| 5. Use of static line systems | Work on sloping surfaces Working on roofs Risk of free fall from work position Failure of system due to damage | A restraint belt is acceptable if working on a slope of 15° or less, and where the length of the restraint will prevent any vertical free fall of the wearer. On roofs and slopes greater than 15° and where secure footing can be maintained, a work positioning or fall arrest harness must be worn. A line and rope grab fall arrest system must be placed in front of the person to allow operation of the mechanism. A harness with a front fall arrest connection point should be used with this type of system. A fall arrest harness must be worn where there is a likelihood of a free fall of a person greater than 600mm. Use of a second lanyard, the provision of protective sleeves or covers, or the provision of equipment designed to cope with any foreseeable damage must be provided where there is a risk of damage due to use of power tools, welding, use of abrasives or chemicals, electrical hazards, or work in flammable or explosive atmospheres, or confined spaces. | Inertia reel use not recommended. Anchorage may be at foot level. A person must be connected to at least one fall arrest system wherever they are at risk of a fall. Ensure adequate fall clearance is available under work position. Risk assessment must be carried out prior to work where potential causes of damage to equipment may be present. |
| 6. Other considerations | Rescue of fallen persons Objects falling from height | Suitable equipment to rescue a person in the event of a fall must be available within a short period to minimise risk of suspension trauma. Tools, equipment and materials should be secured from falling. Provision must be made to protect persons at lower level, either by providing suitable guardrails and edge protection, catch nets, or barring access to risk areas. | Other persons on site must be instructed in rescue procedures. Head protection must be worn. |
| 7. Cleaning, maintenance and storage | Cleaning and maintenance Storage | Hardware and mechanical devices must be cleaned and maintained in accordance with manufacturer's instructions. Synthetic materials must be cleaned with mild soap and water. Air dry all equipment at ambient temperature before storage. Store synthetic materials away from sunlight in a cool, dry place. Harnesses should be hung or stored flat in a safe location. Any fall arrest or restraint equipment should be stored away from any unnecessary strain or pressure, excessive heat, and be protected from sharp edges, corrosive substances and other causes of damage. | Refer to manufacturer's instructions for cleaning data. Refer to label on harness. Dedicated storage should be provided for all fall arrest and restraint equipment. Store in bags provided by supplier to ensure that all parts of a system are kept together for use. |

SAFE WORK PROCEDURES WET & DRY VACUUM CLEANER

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SPECIAL INSTRUCTIONS:

1. Wet & dry vacuum cleaners must only be connected to an outlet which is protected by a serviceable safety switch.
2. All manufacturers' operating procedures as specified in the operator's manual must be adhered to in the use of these machines.
3. **Do not use wet and dry vacuum cleaner to clean up flammable liquid spills or where flammable vapours are present.**
4. Full cloth filter or collection filter bag must be used when vacuuming fine particulates such as wood or coal ash, soot, cement, plaster or drywall dust.
5. Wet & dry vacuum cleaners must not be used to clean up asbestos waste unless specifically designed for use with hazardous particulates.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-------------------------|---|--|--|
| 1. General precautions | Electric shock | Electrical appliances used in an industrial or commercial environment must be tested by a competent person at prescribed intervals for the class of workplace where the appliance is used. Appliances must be only used on a circuit protected by a safety switch. Inspect appliance and leads daily or before use if used less than daily. Do not expose wet and dry vacuum cleaner to rain or water spray. | Do not use any appliance unless it has a current inspection tag fitted. Use portable safety switch if circuit is unprotected. Do not use damaged equipment. |
| 2. Specific precautions | Over-exertion/strain injury Slips, trips and falls Electric shock | Larger wet and dry cleaners may present an over-exertion injury risk, more especially when tank is filled with water after use. Exercise care when working on wet floors. Extension and appliance leads will present trip hazard. Do not pull or carry unit by electric lead, or run the appliance over lead. Avoid pulling cord around sharp edges or corners. Keep electric lead away from heated surfaces. | Observe correct manual handling practices. Wear suitable footwear . Prevent unauthorised entry. |
| 3. Operation | Electric shock Damage to machine Trips and falls Dust or objects in eyes | Do not handle plug or appliance with wet hands. Refer to manufacturers' operation manual for specific operating instructions for each particular brand and model of machine. Do not use a wet and dry vacuum cleaner for any other use than for which it was designed. Do not put any object into or block openings. Keep openings free from dust, lint, hair or anything that may reduce airflow. Do not pick up anything with cleaner that is burning or smouldering, such as cigarettes, matches or hot ashes and embers. Do not use machine without dust bag and filters in place. Turn off all controls before unplugging from power outlet. Exercise extra care when cleaning on stairs. Do not allow leads to remain on floor when work completed. Exhaust air from cleaner can blow dust and debris into air in work area. | Dry hands before unplugging. Observe specific manufacturers' operating instructions. Keep hair, loose clothing, fingers and all parts of body away from openings and moving parts. Prevent access to work area. Eye protection must be worn. |




SAFE WORK PROCEDURES WET & DRY VACUUM CLEANER

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| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|-----------------------------|--|---|---|
| 4. Cleaning and maintenance | Electric shock Over-exertion/strain injury Damage to machine | Disconnect lead from power supply before removing tank cover. Isolate appliance from power before carrying out any work on the machine. Authorised persons only are to carry out work on electrical appliances. Exercise care when lifting machine on or off work bench for maintenance. Any work requiring special tools for disassembly must be referred to an authorised repairer. | Authorised persons only are to carry out appliance repair work. Empty tank before lifting. Refer to authorised repairer for technical or specialised repairs. |

PRECAUTIONS:

- The following precautions are to be observed when using a wet and dry vacuum cleaner.

| Operation | | | |
|---|---|---|--|
|  |  |  | |

SAFE WORK PROCEDURES WORKING IN HOT CONDITIONS

PART 'A' – INDOOR CONDITIONS

SPECIAL INSTRUCTIONS:

1. Persons supervising work in hot conditions **MUST** be trained in how to recognise symptoms of heat stress, and how to treat a person exhibiting symptoms of heat stress.
2. All persons required to carry out work in hot conditions **MUST** be trained in how to avoid heat stress.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|---|--|---|--|
| 1. Reduction of workplace ambient temperature | Temperature reduction cannot be fully predicted due to factors such as outside air temperature, humidity, etc. | Encourage air-flow in building through use of windows, ventilators, etc. Provide means to remove heat by exhausts, and insulate heat sources. Reduce spread of hot air from hot work processes to other parts of premises. Ventilate area by means of artificial air-flow, eg, fans, etc. in areas where hot work processes generate radiant heat or high humidity. | Avoid strong draughts when providing natural or artificial ventilation. Humid conditions will reduce effectiveness of ventilation. |
| 2. Isolation of workers from heat sources | Workers will be exposed to full effects of heat when accessing hot tasks. | Provide heat-proof or reflective screens to prevent spread of heat from source. Insulate heat sources such as plant, boilers, machinery, pipes, etc. Insulate buildings to reduce radiant heat from outside environment. | Ensure that workers are fully protected when screens or insulation is removed to provide access to hot task. |
| 3. Reduction of thermal stress in workers. | Physical exertion Excessive clothing, etc. | Reduce physical exertion by use of mechanical aids for heavy or repetitive tasks. Minimise need for use of personal protective equipment and clothing. Consider rescheduling of high stress tasks to cooler times of day if possible. | Reduce need for heavy exertion. Reduce need for protective clothing and equipment. |
| 4. Avoidance of heat stress | Dehydration Monitoring of conditions Conditioning of workers | Provide ample fluids to make up for losses of body fluid through sweating. Provide supply of fresh water for washing and external cooling. Inform and train workers to recognise symptoms of heat-related illness. Allow frequent rest breaks to allow workers to cool down in extreme heat. Monitor temperature and humidity in workplaces. Allow workers to acclimatise to hot working conditions. | A person should drink at least 500ml of water per hour. Establish work-rest regime where other methods are not applicable. Monitor physical response of workers exposed to hot conditions. |
| 5. Treatment of heat stress | | Develop first aid and emergency procedures, and ensure that all persons understand them and can apply them. | Train workers in methods of treating heat stress. |

SAFE WORK PROCEDURES WORKING IN HOT CONDITIONS

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PART 2 – OUTDOOR CONDITIONS

SPECIAL INSTRUCTIONS:

1. Persons supervising work in hot conditions **MUST** be trained in how to recognise symptoms of heat stress, and how to treat a person exhibiting symptoms of heat stress.
2. All persons required to carry out work in hot conditions **MUST** be trained in how to avoid heat stress.

| Task sequence | Identified hazards in task | Key processes to be followed | Precautions / PPE required |
|--|--|--|---|
| 1. Work planning | | Encourage use of natural shade wherever possible. Provide shade structures (if practicable) where natural shade is not available. | Plan tasks to utilise shade. Provide portable shade structures. |
| 2. Job rotation | | Rotate duties to allow workers time to cool down. | Plan tasks to allow rotation. |
| 3. Reduction of thermal stress in workers. | Physical exertion Excessive clothing, etc. | Reduce physical exertion by use of mechanical aids for heavy or repetitive tasks. Minimise need for use of personal protective equipment and clothing. Consider rescheduling of high stress tasks to cooler times of day if possible. | Reduce need for heavy exertion. Reduce need for protective clothing and equipment. |
| 4. Avoidance of heat stress | Dehydration Monitoring of conditions Conditioning of workers | Provide ample fluids to make up for losses of body fluid through sweating. Provide supply of fresh water for washing and external cooling. Inform and train workers to recognise symptoms of heat-related illness. Allow frequent rest breaks (in shade wherever possible) to allow workers to cool down in extreme heat. Monitor temperature and humidity in workplaces. Allow workers to acclimatise to hot conditions. | A person should drink at least 500ml of water per hour. Establish work-rest regime where other methods are not applicable. Monitor physical response of workers exposed to hot conditions. |
| 5. Treatment of heat stress | | Develop first aid and emergency procedures, and ensure that all persons understand them and can apply them. | Train workers in methods of treating heat stress. |
| 6. Solar radiation protection. | Use of clothing Use of sunscreens Use of eye protection | Long sleeves and trousers, broad-brim hats should be worn where possible. Clothing fabric must be of a UV protective type (preferably SPF50+). Ample supply of SPF 30+ sunscreen must be available for outdoor workers. Sunscreen should be reapplied after every work break or when washed off. Eyes must be protected from UV radiation and reflected and scattered light. Tinted safety glasses must be used where risk of physical eye injury exists. | Over-dressing can result in heat stress due to body over-heating. Sunscreen may be washed off by perspiration in extreme conditions. Wear sunglasses to protect eyes. Use tinted safety glasses. |