

RISK ASSESSMENT (to be read in conjunction with activity plan)

Site = Alternative Site Locations at Events

Task = Mobile Rock Climbing Activity



Dates: Various Dates and times in accordance to events arranged

| TASK / STEP (In sequential order) | HAZARDS (associated with each step) | RISKS (There may be more than one risk associated with each hazard) | CONTROL MEASURES (what you intend to do about the risks) | LIKELIHOOD (chance of it happening) | CONSEQUENCES (how severe – if it happens!) | SCORE |
|---|---|--|--|---|---|---|
| 1. Check and pack all equipment | 1a. Insufficient time to pack gear for activity | Some important items are forgotten or left behind – this disrupts planned activities. | Pack day prior. Use checklist to ensure all required items are packed. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Rushing – stress levels – mistakes are made in packing gear. Some items forgotten. | Pack day prior. Use checklist to ensure all required items are packed. Allow sufficient time. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 1b. Insufficient company equipment | Equipment shortages which slow pace of activities down – some participants don't get opportunity to climb multiple times | Pack day prior. Use checklist to ensure all required items are packed. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Equipment shortages potentially increase risk to participants | Do not place participants at risk – if there are equipment shortages, call office to arrange for gear delivery. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 1c. Insufficient information or no information given to staff | Staff are confused as to what gear to pack or don't know what type of activity they are conducting. | Ensure staff are aware of the activity and requirements. Provide staff with adequate information – eg activity plan. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Wrong type of gear is packed – customer complains because activity is disrupted. | Ensure staff are aware of the activity and requirements. Provide staff with adequate information – eg activity plan. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 1d. Fire & Smoke Hazard | Smoke inhalation can cause collapse, and respiratory issues and exhaustion. Fire across roads can trap vehicles and people within the danger area. | Review Fire warnings from government websites, and radio, regularly prior to and whilst operating at event location. Utilise face guards to reduce smoke inhalation. Asthmatics recommended not to be working on site. Take additional water. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | 1e. Viral Infections | Transference of viral infections to others | Transference reduction training for all staff. Hand sanitiser and soap available. Equipment cleaned regularly. Infection Control Measures followed. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic |

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| 2. Vehicle and trailer travel to site | 2a. Traffic | Road accident | Plan to leave at designated time – allow sufficient time to drive to site. Obey road rules. Be alert and drive to conditions. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Delays due to traffic congestion – arrive late at site | Allow sufficient time to drive to site. Build in extra time to allow for Traffic congestion (if known). | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 2b. Time pressure | Speeding – risk of fines and accidents | Plan to leave at designated time – allow sufficient time to drive to site. Obey road rules. Be alert and drive to conditions. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Stress and rushing | Plan to leave at designated time – allow sufficient time to drive to site. Not worth rushing. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 2c. Poor mechanical condition of vehicle | Vehicle breakdown – inability to arrive at site. Disruption to planned activities. Customer complaints. | Vehicle roadworthiness and servicing is responsibility of employer. Follow logbook servicing. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Difficulty in controlling vehicle – steering alignment and brake shudder | Vehicle roadworthiness and servicing is responsibility of employer. Follow logbook servicing. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 2d. Unfamiliar with location | Staff do not know which way to drive or which road(s) to take. Arrive late and disrupt planned activities. | Ensure street directory or GPS tracker is available. Ensure staff have been given directions and confirm their understanding. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 2e. Driver competency / experience | Difficulty in controlling vehicle – risk of accident – personal injuries or vehicle damage | Ensure driver of company vehicle holds current drivers license for State / Territory. Check experience level with particular vehicle type (eg 4WD). Make driver aware of company policies. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | 2f. Roadworks | Delays due to roadworks – arrive late at site | Allow sufficient time to drive to site. Build in extra time to allow for road works (if known). | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |

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| | | | | | | |
|--------------------------------------|--|---|--|---|---|---------------|
| 3. Access to and signage at the site | 3a. Uneven ground trip hazards | Trips and slips while walking | Personal management – walk carefully – lift feet, don't drag | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Personal injuries – sprained ankles | Where walking boots with ankle support – take care while walking (lift feet , not drag feet) | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Falls, resulting in personal injuries | Personal management – walk carefully – lift feet, don't drag. Don't carry heavy equipment. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 3b. Insufficient or no signage available | Only partially marked activity area difficult to designate briefing point | Ensure sufficient barrier flagging – packwith gear day prior | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Inability to mark activity zone | Ensure sufficient barrier fencing and flagging – packwith gear day prior | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 3c. Unfamiliarity with site | Access directions not received or followed | Contact client that has experience with site. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Zone marking leads to incorrect setup area (wrong direction) | Be accompanied by client or staff that can direct to you the preferred set up area. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Loss of time – forced errors due to rushing | Be accompanied by staff with local knowledge and experience with site. Allow ample time to prepare the site. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 3d. Suitable ground surface and stability. Damage to equipment and injury to staff and participants. | Soft Ground damage to surface from vehicle and trailer. Tower topples due to soft ground. | Ground assessment prior to erection. Review recent rain fall for the region. Assess if ground is natural of backfilled. Do not set up on sandy or unstable surfaces. Increase surface area of stability supports with timber. No sharp turns with vehicle to reduce damage to surface. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |

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| 4. Vehicle & Equipment Maneuvers on site | Bodily Injuries to staff or onlookers. Damage to equipment. | Driving a vehicle into an event, and at speed. | Utilise a banksman to walk ahead of the vehicle. Maintain a speed of no more than 5km/hr | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Reversing a vehicle without a guide or with carelessness | Utilise a visible banksman to walk behind and to the side of the vehicle when reversing to guide the vehicle and keep people away. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| 5. Loss Of Electrical Power | 5a. Night time events with no lighting or organisers main generator issues | Participants, staff, and onlookers can not see clearly. | Take along emergency Lighting with batteries fully charged | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Loss of control of the activity due to limited vision | Cease operations of the activity until a solution is found | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 5b. Climbing tower fails to raise or lower due to low batteries | Climbing Wall can not be erected for activity or packed down after the event | Pack Jumper leads to boost the power to the battery from a vehicle. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| 6. Staff Clothing and Footwear | 6a. Slippery or wet ground surface for staff members | Not wearing appropriate footwear for working at site – risk of slips/falls while setting up and operating | Wear shoes which provide adequate grip to surface. Take time, don't rush. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 6b. Inappropriate Clothing, hair style and jewelry resulting in injury. | Long hair not tied back and jewelry not removed resulting in injury. Clothing not covering vital areas to prevent injury. | Provide detailed instructions to staff with regard to appropriate clothing and presentation and confirm understanding. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| 7. Staff Sun Exposure and exhaustion | Sun burn injury Fainting and loss of consciousness | Inability to work due to sunburn damage, dehydration and exhaustion. | Provide sun cream and hat to staff, encourage they bring sufficient water and food. Take regular breaks. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |

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|---|--|--|---|---|---|---|
| 8. Setup and deploy climbing wall & equipment | 8a. Staff skill deficiencies | Errors in setup – risk of catastrophic system failure | Use qualified staff who are current. Staff cross-checking to confirm setup. Follow activity plan and refer to photos. Roster staff member with previous Experience. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | | Activity not suitable for participant abilities –risk of injuries | Use qualified staff who are current – confirm staff skill levels. Follow activity plan and refer to photos. Roster staff member with previous experience. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Rope entanglements, poor cable monitoring practices and inefficient site layout | Use qualified staff who are current. Staff member in charge to check and verify systems. Trial run system before participants arrive – test and confirm. Make alterations as required to fine-tune setup. Allow time for trial run. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 8b. Staff ignorance of requirements of activity plan (work method statement) | Setup and deployment of rock wall is ad hoc – no resemblance to plan – confusion and difficulty of use | Use qualified staff who are current. Staff member in charge to check and verify systems. Alter if necessary. Follow activity plan and refer to photos. Roster staff member with previous experience. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | | Falls from height – staff not attached to safety belay cables Risk of injuries or death from falls. | Strict compliance with PACI protocols – staff must wear PPE when working at height. Confirm staff competence. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic |
| | | Setup is not appropriate for the conduct of rock-climbing activities – staff confusion | Ensure staff are aware of job requirements – provide each staff member with copy of activity plan. Confirm. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | 8c. Poor attitude toward safety and quality | Staff deliberately deviate from activity plan – exposure to legal liability for any injuries | Staff to sign activity plan which constitutes a legally binding contract. Select staff on the basis of competency, experience & positive attitude toward Employer. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic |
| | Legal liability for any injuries resulting from breach of protocols | | As above – contract agreement and staff carefully selected on basis of competency & experience. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | Falls from height while setting up – no belay cable used due to inadvertence or failure to wear harnesses. | | The climbing wall is a workplace & OHS legislation applies. Staff member in charge is responsible for enforcing rules. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |

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|--|---|--|--|---|---|---------------|
| 8. Setup and deploy climbing wall & equipment (continued) | 8d. Staff incorrectly interpret requirements of activity plan | Incorrect setup of stabilizing jacks and deployment of tower – risk to clients and legal liability | Provide staff with copy of activity plan. Discuss activity plan & setup procedure & confirm understanding of requirements. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Automatic Belay management devices are incorrectly setup – risk to clients and legal liability. | Discuss Set up procedure and daily checks required along with the activity plan & confirm understanding of requirements. Refer to photos of setup. Confirm understanding. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Participants placed at risk of injuries due to staff actions (and inactions). | As above. Discuss Set up procedure and activity plan with staff – confirm understanding. Ensure staff have underpinning competence. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Catastrophic | 1L (green) |
| | 8e. Staff disrespect for employer and written instructions. | Willful failure to comply with activity plan – setup is incorrect and places participants at risk of falls and/or injuries. | Non-conforming staff are removed and/or disciplined. Detect staff attitudinal problems at an early stage and remove or correct. Invoke contract agreement and potential penalty on offending staff member wages. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Inconsiderate and disrespectful behavior toward client group. Reputation of our service as a contractor is harmed – Future work cancelled. | As above. Failure to perform invokes contract law and disciplinary measures. Detect staff attitudinal problems at any early stage – remove non-conforming staff. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | 8f. Other user groups or members of the public in area | Competing interests in use of site – conflict occurs. | If other operator is in area, discuss and reach agreement on individual needs. Avoid conflict. Contact employer if impasse. option to relocate to alternative site. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Members of the public in area – risk of causing injuries while setting up and deploying the climbing tower. | Be observant for people in the area – use safety warning calls when raising or lowering the wall. Ensure all equipment if properly attached prior to raising. Shout warning calls. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Interference from members of the public. | Advise persons not associated with the activity of your intentions in area – duty to warn. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |

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|---|---|--|--|---|---|---------------|
| 9. Setup Checks and Belay system test | 9a. Staff skill deficiencies | Errors in setup – Automatic belay system is ineffective or does not protect clients from falls. | Provide staff with copy of Daily setup check list and activity plan. Discuss activity plan & confirm understanding of requirements. Ensure staff have underpinning competency. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | | Entanglement of ropes – climbing ropes wrapped around or cross-over other ropes. Frictional damage caused – potential for rope failure. | Ensure staff have underpinning competency. Only hire staff who are competent and experienced. At least 1 staff member to have prior experience. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Long delays in setup – running out of time – last minute rushing before Clients arrive. Forced errors. | As above. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 9b. Staff ignorance of requirements of activity plan (work method statement). | Participants placed at risk of injuries due to deviation from activity plan – legal liability | Provide staff with copy of activity plan. Discuss activity plan & confirm understanding of requirements. Ensure staff have underpinning competency. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | 9c. Staff attitude (toward safety and quality) | Automatic belay anchor system is not checked – clients placed at risk of falls from height. | Advise staff of conditions of employment. Non-conformances to be dealt with and contract law invoked. Carefully screen and select staff. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | | Legal liability for any injuries resulting from breach of protocols. | As above. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Falls from height while setting up Rock Climbing Tower & systems – no personal safety lines used due to inadvertence or failure to wear harnesses. | As above. Essential to follow PACI protocols – PPE must be worn where risk of fall is likely. Senior staff member to enforce rules. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | 9d. Staff incorrectly interpret requirements of activity plan & set up procedure. | Setup does not reflect company protocols – legal risk to staff and risk of injuries to clients | Discuss activity plan & confirm understanding of requirements. Refer to photos of setup. Confirm understanding. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Configuration of work area is convoluted and/or unmanageable. | As above. Ensure staff have underpinning competence. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |

| TASK / STEP (In sequential order) | HAZARDS (associated with each step) | RISKS (There may be more than one risk associated with each hazard) | CONTROL MEASURES (what you intend to do about the risks) | LIKELIHOOD (chance of it happening) | CONSEQUENCES (how severe – if it happens!) | SCORE |
|---|--|--|--|---|---|---------------|
| 10. Prepare for rescue situations | 10a. Staff inexperienced with rescue techniques or unfamiliarity with equipment. | Errors in rescue technique – rescue is ineffective or does not protect clients from injury. | Ensure staff are competent – use qualified persons. Staff to cross check each other on technique. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | 10b. Participants | Participants climbs off route – resulting in potential injury. | Speak clearly and directly to participants. Use clear and easy to understand language. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Excessive pushing off the wall and spinning around on descent – resulting in potential injury. | Intervene by gaining attention of the participant. Discuss technique with participant. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (Green) |
| | | Excessive slack in climbing rope – resulting in potential injury. | Monitor climbers, Intervene by either quickly retrieving slack through belay device, and instruct climber to climb back down. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Climber has loss of balance on descent, or fear and hesitancy. | Speak clearly and directly to participants. Use clear and easy to understand language to coach climber down. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Hair or clothing caught in carabiner. Clients are placed at risk of injury. | Intervene immediately to gain control of the belay cable and remove tension. Carry out removal techniques, send to 1 st aid. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Climber ascending tower without staff checking their harness and carabiner attachment to the system. | Intervene immediately by stopping the climber, undertake the pre check required. Once safe, Advise staff of conditions of employment. Non-conformances to be dealt with and contract law invoked. Carefully screen and select staff. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | | Participant found free solo climbing with or without a harness. | Cease all activities, Intervene immediately by undertaking pluck off rescue techniques. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | 10c. Equipment | Insufficient Equipment available. | Equipment (particularly harnesses) must be checked and verified before activity commencement. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |

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|---|--|--|--|---|---|--------------|
| 11. Crowd Control Barriers | Participants and onlookers injured. Crowd Congestion | Participants are injured due to barriers being placed an insufficient distance away from activity | Maintain a safe working space with sufficient barriers placed at least 2m away from the activity. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| 12. High Winds and adverse weather | 12a. High winds above the safe level of operation | Wall stability concerns due to high wind. Wall Topples. | In accordance with manufacturer's instructions do not use if wind gusts are 65Km/hr or 35Kn. Utilise reliable sources to monitor wind in the region, prior to departing for the event, and during operation. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Wind Limitations | Anemometer, Specific phone app, monitoring occurs, or automatic alerts are received every 30min. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | 12b. Adverse weather injuries and electrocution | Severe Storm conditions can create lightning & Hailstorms. Electrical conduction and slippery surfaces. | If lightning can be seen or heard and is prevalent, all climbers must be removed. The equipment is lowered, and operation ceased, until threat has passed. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Rain Limitations | Operation of equipment must be suspended in Moderate rain: Greater than 0.5 mm per hour. Cease activity if Imminent Thunderstorms or Flooding | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| 13. Participants arrive | 13a. Schedule errors | Participants arrive late – everyone placed under time pressure. Difficulties in keeping to schedule with next arriving group. | Staff ready to organise group and proceed with activity. Be time efficient and keep verbal instructions to minimum required. Teamwork – ask if teacher willing to assist. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Participants arrive too early – causing distractions and temporary overcrowding. | Organise group into waiting area in safe position. Ask clients to remain in the safety zone, and hydrate(as required). Advise time frame till ready. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 13b. Participants | No apparent organisation – clients arrive in small sub-groups. Lack of cohesion. Teacher appears to lack group control. Loss of time due to disorganisation. | Locate teacher in charge of group – ask teacher to control and organise group. Give clear concise instructions as to requirements. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |

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|---|---|---|--|---|--|--------------|
|---|---|---|--|---|--|--------------|

| | | | | | | |
|---------------------------|--|--|--|---|---|---------------|
| 14. Pre-activity briefing | 14a. Relying on memory – no checklist to refer to. | Omission of important safety information | Follow briefing checklist Display rules signage – do not rely on memory alone | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Inappropriate or irrelevant information given | Rehearse delivery of briefing – gain confidence in public Speaking – use checklists as a prompt. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 14b. Participants | Participants distracted by elements (eg other students in the centre – mobile devices, hot or cold temperatures). | If weather conditions are unfavorable, encourage students to put on warm clothing, or sit in the shade and drink fluids. Stop activity if Temperatures go above 35 degrees. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Some participants are disruptive – influencing others – not listening or pretending to listen. | Gain control of group. Utilise teacher to assist with controlling group. Speak clearly and directly to clients – choice of words to be precise and firm. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 14c. Staff inexperience | Apparent to clients that staff are inexperienced – leading to reduced confidence in staff. | Ensure staff have underpinning competency. Only hire staff who are competent and experienced. At least 1 staff member to have prior experience in working with groups. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Disjointed delivery of information – clients experience difficulty in understanding – or simply pretend to understand. | As above. Staff can rehearse delivery of briefing with other staff members – obtain feedback. Use briefing checklist as a prompt. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input checked="" type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 14d. | Viral Infections. Transference of viral infections to others. | Display COVID safe policy and discuss- self-isolating if sick. Safety barriers distance extended to segregate onlookers from climbers and staff. Hand sanitiser and soap available for cleaning hands regularly. Keeping hands away from face. Limiting number of rotational groups of climbers. Equipment cleaned regularly. Infection Control Measures. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |

| TASK / STEP (In sequential order) | HAZARDS (associated with each step) | RISKS (There may be more than one risk associated with each hazard) | CONTROL MEASURES (what you intend to do about the risks) | LIKELIHOOD (chance of it happening) | CONSEQUENCES (how severe – if it happens!) | SCORE |
|---|---|--|--|---|---|---------------|
| 15. Distribute and fit participant PPE | 15a. Staff inexperience or unfamiliarity with equipment | PPE harnesses are incorrectly fitted. Clients are placed at risk of falls from height or other injuries. | Ensure staff are competent – use qualified persons. Fit client PPE on self as trial run to gain familiarity. Staff to cross check each other. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | | Continual delays in attaching and checking participants – loss of valuable time – not everyone gets equal climbs in allotted time frame. | Ensure staff are competent – use qualified persons. Fit client PPE on self as trial run to gain familiarity. Staff to cross check each other. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 15b. Participants | Participants not listening to, or paying attention to staff – resulting in confusion or some disruptions to Activities. | Speak clearly and directly to participants. Use clear and easy to understand language. Refer disciplinary and/or behavioral problems to attached teacher. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Disruptive behavior – staff have difficulty in controlling group – delays in fitting equipment | Speak clearly and directly to participants. Use clear and easy to understand language. Refer disciplinary and/or behavioral problems to attached teacher. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Participants distracted by elements (eg other students – hot or cold temperatures). | If conditions are unfavorable, move participants into an area away from other students, or more protected and comfortable zone. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 15c. Equipment | Heavy wear and tear to some equipment – causing difficulties with fitting | Equipment (particularly harnesses)must be checked and verified before activity commencement. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Insufficient or shortages of equipment – participants are concerned – delays in flow of activities due to shortages. | Arrange flow of activities so that equipment can be sanitized prior to use by next climber. Management / employer must ensure sufficient equipment for the contracted activities. If staff note shortages while packing, bring to immediate attention of Management / employer. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Incorrect type of harness for the activity (and weight range of participant) | Confirm type of harnesses to be used for the planned activity. Consider weight range of clients. Max 120kg | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |

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|---|---|---|---|--|---|---|---------------|
| 16. Climbing activities commence | 16a. Gravitational energy | Connector misalignment due to cyclic loading events. | Use tri lock connectors that have captive eyes on the climbers end. Be observant for connector misalignment. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) | |
| | | Equipment failure – from misuse or poor maintenance resulting in falls from height. | Check and confirm all equipment prior to use. Isolate any damaged gear from use. Notify management / employer of damaged or unserviceable equipment. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) | |
| | | Staff inadvertence – mistakes/errors made which place participants at risk. | Only competent and experienced staff to be employed. Personal management – monitor own fatigue levels. Staff cross-check each other. Follow checklists (ABCDE etc). Senior staff member responsible for enforcing rules and protocols. Staff should be current with their Knowledge and skills. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) | |
| | 16b. Unsupervised Activity once set up | | Participants gain access to Climbing wall prior to commencement | Identify waiting area for participants. Teachers attached to group responsible for monitoring participants (discipline, etc). Discuss No pre-access to activity rule in safety brief. Staff to maintain situational awareness. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | | | Staff fall from wall – not attached to safety line. | Staff must wear PPE and be attached to personal safety lines at all times when climbing the wall. Senior staff member to enforce protocols. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | | | Equipment is dropped and damaged. | Minimise participant handling of equipment. Use techniques that prevent accidental dropping of gear. Staff to monitor participants and maintain situational awareness. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | | | | | | |

| TASK / STEP (In sequential order) | HAZARDS (associated with each step) | RISKS (There may be more than one risk associated with each hazard) | CONTROL MEASURES (what you intend to do about the risks) | LIKELIHOOD (chance of it happening) | CONSEQUENCES (how severe – if it happens!) | SCORE |
|---|---|---|--|---|--|--------------|
|---|---|---|--|---|--|--------------|

| | | | | | | |
|---|---|---|---|---|---|---------------|
| 16. Climbing activities commence (continued) | 16c. Participant Falls from Wall or Extreme Air Bungee due to equipment malfunction | Harness Incorrectly fit. Failure of correct carabiner attachment to harness. Failure of Buckles on harness. | Staff to maintain attention to detail and follow pre-climbing checking procedure on every participant. Correct Bungee Harness used for size of jumper, and adjusted correctly, securing loose ends. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | | Failure of Auto Belay cable attachment to rear belay housing frame. | Pre start checks carried out | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | | Failure of Auto Belay back up cylinder mounting pin bolts | Pre start checks carried out | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Failure of seals in regulating cylinder | Pre start check oil leaking and load testing the belay system | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Failure of Hydraulic hose | Pre start check oil leaking and load testing the belay system | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Belay Cables damaged or corroded | Belay wire renewed annually. Pre start checks carried out to check condition of cables. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Failure of Quick Link, swivel or carabiner | Pre start checks carried out on every climb station | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 16d. | Fall during access/ egress from Bungee trampolines | Staff assist and guide participants to sit down and slide on or off the trampoline. Staff to verbally indicate to "wait until support arm are raised until jumping can commence". "No flips" Verbally indicate to participant when lowering bungee arms "No more jumping" | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | 16e. | Injury to staff and onlookers from Bungee jumper kicking | Barrier fencing placed and weighted at a suitable distance away from the trampoline >2m. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |

| TASK / STEP (In sequential order) | HAZARDS (associated with each step) | RISKS (There may be more than one risk associated with each hazard) | CONTROL MEASURES (what you intend to do about the risks) | LIKELIHOOD (chance of it happening) | CONSEQUENCES (how severe – if it happens!) | SCORE |
|---|---|---|--|---|--|--------------|
|---|---|---|--|---|--|--------------|

| | | | | | | |
|---|---|---|---|---|---|---------------|
| 16. Climbing activities commence (continued) | 16f. Participant control & management systems | Staff protocol errors - Failure to follow ABCDE checklist – connective error goes undetected and participants commence climbing. | Rigorous enforcement of safety checks (ABCDE method) before participants commence climbing. Only competent and experienced staff to be employed. Senior staff member to monitor other subordinate staff. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Hair or clothing caught in Automatic belay device | Tie hair back – tuck loose clothing in. ABCDEcheck ought to detect 'ends' – don't proceed unless checks permit. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Participant climbs off route – staff member applies <i>not remaining vigilant</i> . | Alert climber of situation – encourage climber to move back to route, only intervene if climber has crossed cables with another climber.– intervene to reduce pendulum swing if appropriate. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Participants receive friction burns caused by misuse during climbing (eg cable burns, or burns from skin contact with metal surfaces) | Warn participants about potential for injury if improper descent method– discourage spinning or excessive pushing off descents (intervene to correct participants method if necessary). | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Automatic Belay device entanglement/jams while feeding through belay system (reduction of pulleys free movement) – participant descent is unintentionally interrupted – resulting in loss of enjoyment. | Ensure automatic belay systems are tested and silicon spray used to allow for free-flow through the pulley systems. Monitor feed pattern of belay cable during climbers descend – be alert for any unusual descent speeds. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Domestic Violence Bodily Injuries Mental Injuries Panic Safety concern | A Dispute between people or staff in the local vicinity. Training staff in dealing with domestic violence reduction techniques. Redirection of crowd to maintain a clear distance from situation. Contact security personnel. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |

| TASK / STEP (In sequential order) | HAZARDS (associated with each step) | RISKS (There may be more than one risk associated with each hazard) | CONTROL MEASURES (what you intend to do about the risks) | LIKELIHOOD (chance of it happening) | CONSEQUENCES (how severe – if it happens!) | SCORE |
|---|---|---|--|---|--|--------------|
|---|---|---|--|---|--|--------------|

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|---|---|---|---|---|---|---------------|
| 16. Climbing activities commence (continued) | 16g. Participants | Excessive speed on descent – Auto belay system issue – risk of heavy landing and friction/heat burns | Staff test the Automatic Belay system at the commencement of every event to identify any issues. Staff intervention to isolate and discontinue use of any system that is malfunctioning. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Climbing cable wear and tear (abrasion damage) – caused by lateral movement & cyclical abrasion on equipment during participant climbs. | Periodic checks of ropes | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Loss of balance during climbers descent | Reinforce body positioning (Lean back & feet apart). Coach participants. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Fear and hesitation during climb. Participant attempts to abort climb or displays strong emotions. Negative impact on activity. Delays caused – schedule overruns. | Provide confidence building language during activity brief, to reassure climbers of their safety. – determine suitability routes for client skill level. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Participants climb on a diagonal trajectory – risk of pendulum fall/swing and injuries. Potential for damage to ropes as they track across edge. | Observe participants during ascents – correct descent path by giving verbal instructions or pointing to indicate correct trajectory. Staff remain vigilant at all time and position to maintain visual contact with participant. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | 16h. Teachers (attached to client groups) | Interference from parents or assigned helpers (or group supervisors assigned by event organiser) – perception that activity staff are making errors or that control systems are inadequate (with potential conflict & negative feedback). | Managers / employer should ensure the event organiser is aware of role of assigned helpers during activities – via activity plan/simple contract documenting teacher / helper responsibilities and roles. Climbing staff control activity – not teachers. Teachers do not possess expertise in roping – their perception may not be reality. Staff should introduce themselves and briefly outline roles and responsibilities before activity begins. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |

| TASK / STEP (In sequential order) | HAZARDS (associated with each step) | RISKS (There may be more than one risk associated with each hazard) | CONTROL MEASURES (what you intend to do about the risks) | LIKELIHOOD (chance of it happening) | CONSEQUENCES (how severe – if it happens!) | SCORE |
|---|---|---|--|---|--|--------------|
|---|---|---|--|---|--|--------------|

| | | | | | | |
|--|---|--|---|---|---|---------------|
| 16. Rock Climbing activities commence (continued) | 16i. Loose hand holds | Hand holds and/or debris falls and strikes participants causing injuries. | Stabilise or remove loose handholds and equipment from climbing wall prior to raising. Do not set up under trees, as risk of falling trees. If risk is significant – use alternative site. All participants must remove loose items in pockets prior to climbing. Ensure participants are aware of action to take in event of loose holds or impact from other climber. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 16j. Uncontrolled Landing due to Automatic Belay system overload or malfunction | Bodily Injuries collision with adjacent people, staff or onlookers | Staff to undertake full set up procedure daily checks. Oil levels and Air pressure in Auto belays. Prime the belay system correctly prior to the start of each event. Maximum weight of participant is 120kg per system. Barrier segregation for onlookers. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 16k. Staff | Fatigue caused by repetition syndrome. Staff begin to make errors due to long hours and numerous participant climbs. Participants placed at risk of falls. | Self-monitoring – staff to cross check each other. Notify if fatigued and take short break. Keep hydrated and control body temperature according to climate conditions. Concentrate on following protocols (eg ABCDE checklist). | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Staff make simple errors/mistakes – due to inadvertence or time pressure. Participants placed at risk of falls due to errors/mistakes. Mistakes can range from connective errors to rope management issues to adjustment of PPE (eg incorrectly adjusted harness). | Only competent and experienced staff to be employed. Senior staff member to monitor other subordinate staff. Rigorous enforcement of safety checks (ABCDE method) before participants commence activity. If unsure about a procedure or protocol, stop and check with senior staff member on site (do not guess). | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |

| TASK / STEP (In sequential order) | HAZARDS (associated with each step) | RISKS (There may be more than one risk associated with each hazard) | CONTROL MEASURES (what you intend to do about the risks) | LIKELIHOOD (chance of it happening) | CONSEQUENCES (how severe – if it happens!) | SCORE |
|---|---|---|---|---|---|---------------|
| 17. Post activity debrief | 17a. Time pressure | Staff decision to omit debrief of activities in order to save time | Monitor progress of activity and check time frames. Staff to have access to time keeping device (eg wrist watch or mobile phone). Plan a cut-off time to allow for pack up and debrief. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Rushed debrief – achieves little impact. Evident to participants that staff have been rushed. | As above. Pre-plan a cut-off time which allows adequate time for packing up and debriefing. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 17b. Staff inexperience or incompetence | Debrief conveys perception of a mature rather than professional conduct. | Use competent, experienced staff. Ensure staff are aware of and acknowledge requirement for Professional conduct. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Inappropriate feedback given – conveys negative attitude toward participants. | As above. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | 17c. Participants | Participants are not interested – only want to leave and go home. | Staff to maintain control of activity – and maintain interest levels. Convey impression that the debrief is important and is a part of the activity. Involve teacher attached to group. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input checked="" type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |



| TASK / STEP (In sequential order) | HAZARDS (associated with each step) | RISKS (There may be more than one risk associated with each hazard) | CONTROL MEASURES (what you intend to do about the risks) | LIKELIHOOD (chance of it happening) | CONSEQUENCES (how severe – if it happens!) | SCORE |
|---|---|---|--|---|---|---------------|
| 18. Check area for litter and items left behind | 18a. Staff attitude | Poor work ethic / no respect for employer. Equipment is left behind or lost. | Staff are responsible for any equipment loss/damage. Sign inventory – check all gear back in. Staff induction and contract agreement with employer to be invoked if dispute about refusing to take responsibility. Staff to acknowledge & agree to terms and conditions of employment prior to activity. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Some degree of damage to the environment – temporary (will recover) | Staff to ensure all participants stick to activity zones and respect event manager rules. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | 18b. Staff inadvertence | Litter is left behind | Follow briefing checklist – don't rely on memory | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Participant personal belongings are left behind | Remind all participants to check area – and check that they have all personal belongings. Utilise teacher attached to group. Refer to activity plan / checklist as a prompt to ensure no important information is omitted. Last staff member to depart visually checks site. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Omission of key reminders to participants before they leave site | As above. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 18c. Participants | Poor behavior / attitude toward environment and staff. Disruption to flow of activities – stress. Activity is concluded on a negative note (not positive ending). | Consult with teacher attached to group. Teacher is responsible for participant behavior. Speak clearly and directly to participants – use friendly but firm tone. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |

| TASK / STEP (In sequential order) | HAZARDS (associated with each step) | RISKS (There may be more than one risk associated with each hazard) | CONTROL MEASURES (what you intend to do about the risks) | LIKELIHOOD (chance of it happening) | CONSEQUENCES (how severe – if it happens!) | SCORE |
|---|---|---|--|---|---|---------------|
| 19. Pack away equipment and climbing gear | 19a. Staff skill deficiencies | Errors in pack down – risk of damage or loss of equipment | Use qualified staff who are current. Staff cross-checking to confirm pack down. Follow activity plan and refer to photos. Roster staff member with previous experience at site. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Matting and climbing equipment stored away in the trailer and vehicle not suitable - | Follow activity plan and refer to photos. Roster staff member with previous experience at site. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Equipment entanglements and poor housekeeping practices – confusion and difficulty of use | Use qualified staff who are current. Staff member in charge to check and verify storage system. Test and confirm. Make alterations as required to fine-tune security. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | 19b. Staff ignorance of requirements of activity plan (work method statement) | Lowering and storage of Rock Climbing gear and trailer is ad hoc – no resemblance to plan – confusion and difficulty for future use. | Use qualified staff who are current. Staff member in charge to check and verify processes & systems. Alter if necessary. Follow activity plan and refer to photos. Roster staff member with previous experience at site. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Falls from height – staff not attached to personal safety lines when maintaining or packing down equipment. Risk of injuries or death from falls. | Strict compliance with PACI protocols – staff must wear PPE when working at height. Confirm staff competence. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |
| | 19c. Poor attitude toward safety and quality | Staff deliberately deviate from activity plan – exposure to legal liability for any injuries | Staff to sign activity plan which constitutes a legally binding contract. Select staff on the basis of competency, experience & positive attitude toward Employer. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 2M (blue) |
| | | Legal liability for any injuries resulting from breach of protocols | As above – contract agreement and staff carefully selected on basis of competency & experience. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Major <input type="checkbox"/> Catastrophic | 1L (green) |
| | | Falls from height while maintaining or packing down – no personal safety lines used due to inadvertence or failure to wear harnesses. | The climbing wall is a workplace & OHS legislation applies. Staff member in charge is responsible for enforcing rules. | <input type="checkbox"/> Almost certain <input type="checkbox"/> Likely <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input checked="" type="checkbox"/> Rare/remote | <input type="checkbox"/> Insignificant <input type="checkbox"/> Minor <input type="checkbox"/> Moderate <input type="checkbox"/> Major <input checked="" type="checkbox"/> Catastrophic | 2M (blue) |

RISK ASSESSMENT – SUPPORTING INFORMATION

RISK CONSEQUENCE

This table is used to define a category for each potential consequence used in this Risk Assessment.

| Category | Definition |
|---------------|---|
| Insignificant | <ul style="list-style-type: none"> a. no injuries or fatalities. b. little community disruption. c. no environmental or other damage |
| Minor | <ul style="list-style-type: none"> a. small number of injuries. b. no fatalities. c. only first-aid required. d. some environmental or other damage (but not lasting) |
| Moderate | <ul style="list-style-type: none"> a. hospital treatment required for injuries. b. no fatalities. c. some community inconvenience. d. some environmental damage (small long-term affect). e. other medium level damage |
| Major | <ul style="list-style-type: none"> a. extensive injuries. b. significant hospitalisation required. c. some services unavailable. d. extensive environmental damage (long-term affect). e. some community displacement |
| Catastrophic | <ul style="list-style-type: none"> a. fatalities. b. serious injuries and extended hospitalisation required. c. widespread community displacement. d. extensive and widespread damages. e. significant environmental damage (long & short- term) |

RISK ASSESSMENT - LIKELYHOOD

RISK LIKELIHOOD

This table is used to define a category for each potential likelihood of the occurrence for each of the causes listed in this Risk Assessment.

| Category | Definition |
|----------------|--|
| Rare | <ul style="list-style-type: none"> a. Would only occur in highly exceptional circumstances. b. An extremely remote chance of an occurrence |
| Unlikely | <ul style="list-style-type: none"> a. Not likely to occur. b. A small, but remote chance of occurrence due to the circumstances that could arise |
| Possible | <ul style="list-style-type: none"> a. Likely to occur at least once, but not expected to occur much more than this. |
| Likely | <ul style="list-style-type: none"> a. Likely to occur at least once, but not an "everyday" occurrence. b. Preconditions will arise at times |
| Almost certain | <ul style="list-style-type: none"> a. will occur. b. Circumstances are likely to arise often enough throughout the vent to provide the opportunity for the risk to occur. c. Expect frequent, regular occurrences |

RISK PRIORITY CHART

| LIKELIHOOD | CONSEQUENCES | | | | |
|-----------------------|--------------------------------|---|------------------------------------|---------------------------------|-------------------------|
| | Insignificant (no injuries) | Minor (1 st aid treatment only) | Moderate (medical treatment) | Major extensive injuries) | Catastrophic (death) |
| Almost certain | 2 M | 3 H | 4 A | 4 A | 4 A |
| Likely | 2 M | 2 M | 3 H | 4 A | 4 A |
| Possible | 1 L | 1 L | 2 M | 3 H | 4 A |
| Unlikely | 1 L | 1 L | 1 L | 2 M | 3 H |
| Rare | 1 L | 1 L | 1 L | 2 M | 2 M |



Prepared by Wade Geoffrey Morse

Signature *W. Morse*

Date: 29 July 2024

Risk score descriptors:

| SCORE & STATEMENT | ACTION |
|-------------------|--|
| 4 A = Acute | ACT NOW! – Urgent – Do something about the risks immediately. Requires immediate attention or intervention. Cease or isolate source of risk. Immediate attention, response and treatment required prior to commencement or continuation of work. Requires a risk assessment and risk management plan by the relevant Executive for approval (prior to work commencing or continuing) The Risk must be escalated to the responsible Company Executive member(s) immediately for full consideration and approval of risk mitigation/ opportunity measures with the Director. A notification must be made to, and advice must be sought from Health, Wellbeing and Safety Unit (Human Resources) as soon as practical |
| 3 H = High | Highest management decision is required urgently. Cease or isolate source of risk. Immediate attention, response and treatment required prior to commencement or continuation of work. Implementation of risk controls to be given appropriate attention, response and demonstrably managed. Executive approved risk treatment required prior to commencement or continuation of work. Risk must be escalated to the responsible Director immediately. Director informed by the appropriate Executive for consideration of risk mitigation measures to lower risk level. A notification must be made to, and advice must be sought from Health, Wellbeing and Safety Unit (Human Resources) as soon as practical |
| 2 M = Moderate | Follow management instructions. The activity where practical should cease until safety controls are implemented. Assess the risk, determine whether current controls are reasonably practicable for the task/ work area/ environment or if further action/ treatment is required. All risk mitigation factors to be explored and exhausted before proceeding. If the activity is to be continued after implementing safety controls, the controls must be reviewed and approved by the relevant Manager. Monitor, review and document controls through regular business practices or local area meetings. A notification must be made to the Health, Wellbeing and Safety Unit (Human Resources) as soon as practical. |
| 1 L = Low | OK for now... Record and review if any equipment/people/materials/work methods or procedures change. Local Management responsibility / site management responsibility. Managed by routine procedures, monitor and review as required. Any further control should be implemented to reduce the risk to as low as reasonably practicable. |

Careful consideration of the problem and corrective action should be taken according to the hierarchy of control.

The hierarchy of control always states that wherever practicable, the source of the hazard should be dealt with in the following order of priority:

- 1) Eliminate the hazard
- 2) Substitute
- 3) Re-design or engineering controls
- 4) Isolate
- 5) Administrative controls
- 6) PPE

USE OF THE WORK METHOD STATEMENT AND RISK ASSESSMENT SHEET

Always conduct a risk assessment before working at height. It doesn't matter if the nature of work is recreational or industrial. Both forms of work involve the risk of falls from height.

Start by analyzing your sequence of work (ie step by step) and identifying all the possible hazards associated with each step. Remember, a hazard is the *source* of the harm. Once you have identified each of the hazards, transfer those hazards to your risk assessment sheet. There may be more than one risk associated with each hazard.

With each risk, determine the *likelihood* of its occurrence and then the *consequences* if it occurs.

Lastly, work out the best measures to *control* the identified risks. It is best to use a participative approach and involve all workers who may come into contact with the identified hazards. Ideas can be brainstormed.

Your control measures are the most critical aspect of the whole process. This is what you intend to do to manage those risks you identified.

OPTIONS FOR TREATING RISKS

When treating risks, there are a number of options that can be implemented to control the risks. These options are known as the *hierarchy of control*:

Elimination of the hazard - Not always possible at a job site (ie roof work usually involves the potential for a fall). If this option is not possible then;

Substitution - Try replacing the hazard with one that presents a lower (and more manageable) risk.

Engineering controls (redesign) - Try making changes to the workplace or to equipment to reduce the risk of injury or harm. For example, installing guard railing and/or barricades to prevent falls from height. If this is not possible then;

Isolation - Try isolating or separating the hazard from the person, or the person from the hazard. For example, installing screens or barriers around hazardous areas, enclosing or guarding dangerous equipment.

Administrative controls - Try making changes to the way work is organised to reduce the risk of injury or harm. For example, try rostering more experienced staff with less experienced or younger workers. If this is not possible then;

Personal protective equipment (PPE) - PPE should not be used in place of more permanent controls. It is the least effective way of dealing with hazards. Unfortunately, in many cases, PPE is usually the only way to minimise risks eg wearing of helmets and using gloves. ®

