



# Department of **Sport and Recreation**

# Western Australian Adventure Activity Standard

Common safe practice for groups in the outdoors

# Canyoning

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# Western Australian Adventure Activity Standards Canyoning

Adventure Activity Standards benchmark the minimum industry requirements and responsibilities for organisations and leaders conducting outdoor adventure activities for commercial and non – commercial groups.

The Adventure Activity Standards are designed to be applied when the participants are, for the purposes of participating in the activity, either

- in a pre-existing group
  - where either the group members (and or its representative third party) have made a collective purchase of / collective decision to participate in the activity (ie a school, corporate or community group); or are
- formed into a new group
  - where the participants have purchased / made the decision to participate in the activity as individuals or smaller groups, but having done so become a part of a new group (ie citizens or tourists who, having purchased an activity from an organisation or leader individually, are formed into a group for the purposes of participating in the activity provided).

In all cases the relationship between the group of participants and the activity provider is one based upon dependence by way of contract and or duty of care.

The existence of other types of groups where the group is less defined and NOT dependent as a group upon an activity provider for the conduct of the activity is acknowledged. (ie independent club members participating in an activity). It is intended that such less defined groups of independent participants are not "captured" by the AAS.

The Western Australian Adventure Activity Standards were developed by an industry wide consultative process coordinated by Outdoors WA following the recommendations of the 2006 State Government Adventure Tourism Visitor Safety Task Force Report. The Project received grant funding via the Department of Sport and Recreation.

The development and implementation of the AAS allows the outdoor adventure industry to demonstrate its collective integrity and agreed standards. This, in turn will provide a measure of quality for the purposes of assisting

- 1. Consumers of our services to make informed choices about the services they select
- 2. Training organisations to produce graduates who understand and meet industry standards
- 3. Media, insurance and legal scrutineers of our industry and its members, to understand what is acceptable practice and what is not
- 4. The development of sustainable use practices that consider the specific natural and cultural heritage values of areas in which we conduct outdoor activities

The AAS are a critical component of the *industry quality framework* comprising four aligned and inter-connected components

- 1. Accreditation the required business operating standards for businesses and organisations
- 2. **Adventure Activity Standards** the minimum standards to which an activity must be conducted by a provider to dependent groups of participants
- 3. **Leader Registration Scheme** the responsibilities and competencies required of the leaders conducting the outdoor activities
- 4. Codes of Conduct the behavioural expectations of persons operating as outdoor leaders

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# INTRODUCTION

The Western Australian Adventure Activity Standards (AAS) have been developed to assist organisations and leaders to plan and conduct outdoor adventure activities with commercial and non-commercial dependent groups of participants where there is a duty of care based in contract and or in authority.

The purpose of the AAS is to maintain the perception of adventure whilst simultaneously reducing / managing the real risk for participants. Increased outdoor physical activity with reduced incident and accident rates will be the ultimate performance indicators of the value of the AAS.

The AAS provide a valuable resource for the development of operating procedures, and or for the purposes of comparing existing operating procedures to industry agreed benchmarked standards. All groups differ in their collective skills and experience and in their degree of dependence upon the leader. They participate in outdoor activities at a range of sites with varying conditions (including weather). It therefore *remains the responsibility of the leader to make the professional judgements and decisions concerning the conduct of the activity to ensure the safety of the group.* The AAS are designed to assist such judgements and decision making.

The AAS are also designed to promote knowledge and awareness of the broad and activity specific impacts increasing recreation and travel opportunities place upon the natural environment. The AAS are designed to assist the protection of biodiversity values and the preservation of cultural sites balanced with the increased access demands. The 7 Principles of Leave No Trace are imbedded within the AAS.

Whist not statutory standards, the AAS provide the basis for policy formation and decision making by jurisdictions external to the outdoor adventure activity industry including, but not restricted to, licensing, insurance and legal jurisdictions.

# **ACTIVITY DESCRIPTION**

The canyon environment is defined as a deep, narrow, steep-sided (often vertical walled) valley, usually with a flowing watercourse (perennial or intermittent resulting in "wet" and "dry" canyons). A canyon is formed by erosion of the surrounding rock creating waterfalls, log / rock jams and pools. Canyon environments may vary greatly and can include dim light, moving and sometimes cold water.

Horizontal Canyoning involves the ascent and descent of steep water courses where canyoners can avoid exposure to unprotected edges. This activity involves a combination of multiple skills such as bushwalking, bouldering and swimming (with or without buoyancy aids).

**Vertical Canyoning** involves horizontal canyoning with the additional consideration of the descent and ascent of vertical (or near vertical) natural features beyond a height of 2 metres and with unprotected edges, including waterfalls. Technical roping techniques such as abseiling and rock climbing are used to manage vertical elements encountered.

Natural canyons may present opportunities for both horizontal and vertical canyoning. Outdoor leaders must make the distinction prior to embarking, although land managers may have previously made this distinction. The final decision on the risk management of the canyoning activity requires the judgement of the outdoor leader. Such judgements will vary on a site-by-site, group-by-group and day-by-day basis with the height above ground and landing surface being the key determinants.

# **ASSUMPTIONS**

This Activity Standard makes the following assumptions

#### MAXIMUM FALL DISTANCE

This is the distance widely accepted as being the maximum distance a person should be able to fall where adequate safety can be implemented by 'spotting' rather than requiring belaying. The distance is measured from the feet of a person standing on the edge to the surface where that person would land should they fall. For this Activity Standard this distance is 2.4 metres.

#### SIGNIFICANT FALL RISK

This is where a person could fall more than the maximum fall distance onto a rigid surface. If the surface landed on is water, then the water needs to be the greater of a minimum of 2 metres deep or at least as deep as half the potential fall distance for there to be no significant fall risk. The steepness and slipperiness of the face is a subjective assessment on a site-by-site and day-by-day basis.

#### **UNPROTECTED EDGE**

This is an edge with a significant fall risk where the natural features force a person to be closer than 2 metres from this edge. The 2 metre edge distance applies to a clean edge on firm rock; without rubble, downward slope and adverse environmental conditions.

This AAS ought to be read in conjunction with the specific standards for bushwalking, abseiling, caving, and climbing.

\* Further details of canyoning operating procedures can be found in the Western Australian Roping Activities Code of Practice located at <a href="https://www.outdoorswa.org">www.outdoorswa.org</a>

# PLANNING and PREPARATION

The AAS provides a planning and preparation framework considered critical in maximising participant safety and enjoyment. All planning must be finalised and the relevant components written before the activity is undertaken. A suggested planning and preparation framework includes

- Preliminary Information
- Site Plan
- Risk Management Plan
- Emergency Response Plan
- Minimal Environmental Impact Plan

Samples and suggested templates are available at www.outdoorswa.org

# **Preliminary Information**

The following are the minimum information requirements for conducting a canyoning session

- Objectives / desired outcomes of the session (recommended only)
- Planned start and finish times
- Leader to participant ratio and group size (refer Leader : Participant Ratios and Group Size)
- Land/site manager requirements which may include
  - access restrictions
  - group sizes
  - booking and permit requirements
  - o current environmental management policies and biodiversity issues affecting the region (refer to www.dec.wa.gov.au)
  - regulations in regard to fire restrictions and bans
  - o indigenous groups' regulations and guidelines
- Equipment requirements (refer Equipment)
- Participants' names and emergency contact details
- Participants' swimming abilities

- Medical information advised by participants which may be relevant to the activity
  - Conditions asthma, diabetes, epilepsy, fainting, allergic reactions, blood conditions which may effect bleeding/ blood clotting, recent or long-standing injuries, (eg back, knee, ankle), disability, pregnancy, repetitive strain injury, psychological conditions
  - o Medications what is it / why is it required / how is it administered?
- · Group members are advised, in writing and or in a verbal briefing, of
  - Potential risks associated with the activity
  - Zero tolerance requirements re alcohol and drugs other than prescription drugs NOT effecting the participant's ability to participate
  - The requirement to conform to responsible and attentive behaviour
- Participant signed legal liability disclaimer (informed consent) / waiver to sue / authorisation to seek / provide emergency medical treatment (retain for a time frame as dictated by the Statute of Limitations Act 2005); dependent participants under the age of 18 must have the signature of a parent / guardian if required by the organisation that has legal responsibility for them
- An understanding of the history of the site

#### Site Plan

The purpose of the site plan is to assess issues re access, environmental impact, risk and emergency communications relative to a particular site. The site plan ought to provide details of

- assessment of the suitability of the site for the size and profile of the group
- access to and within the site
  - o by vehicle (2WD / 4WD) including emergency services vehicles
  - on foot including to and from the nearest car park and to and from the top of the canyon including the best routes to take to minimise environmental impact
  - by rope in the event of an emergency (if required)
- how to make an emergency call (by EPIRB/PLB, mobile or satellite phone, by radio or by a runner party to a land line) and where is the best place to make these calls
- group assembly points
- contingency plans for forecast / foreseeable weather conditions
- canyon type horizontal / vertical; wet / dry; length of
- flood, potential rock fall, hyperthermia, hypothermia and other risks; how these risks can be managed
- site characteristics (water temperature, water flow rates, air temperature, underwater hazards, difficulty, height)
- opportunities for rest breaks
- toileting facilities and appropriate waste disposal options
- location of drinking and other water sources
- location of any culturally significant areas, structures, artefacts or rock art that need to be avoided
- location of any rare or endangered plants or animals, and sensitive areas
- ability of site to withstand visitation with minimal impact including leaving vegetation undisturbed

Samples and suggested templates are available at www.outdoorswa.org

# **Risk Management Plan**

The purpose of the Risk Management Plan is to identify the human, site specific, equipment and environmental risks for the safe conduct of the activity. By identifying, analysing and evaluating these risks, appropriate strategies to reduce / manage the risk can be developed and implemented.

Canyoning leaders must assess the chosen site(s) for potential hazards and adapt the planning of the activity as required. Information of any new hazard must be made available within the group / organisation and to the relevant land manager.

Samples and suggested templates are available at www.outdoorswa.org

The Risk Management Plan must consider

- Leader(s) have the required authorisation, skills, qualifications and experience to
  - o lead the canyoning activity with the specific clients in the specific section of the canyon
  - satisfy the planned objectives
  - effectively manage incidents (refer Requirements of Leaders)
  - o preserve the environmental integrity of the activity site and surrounding area
- Leader : Participant ratio (refer Leader : Participant Ratios and Group Size)

- Group size (refer Leader : Participant Ratios and Group Size)
- Group profile
  - Skill / experience levels
  - Needs / requirements
  - Knowledge of environmental minimum impact strategies
- Methods for managing group at all times
  - Participants ahead of the leader
  - o Participants behind the leader
  - Participants between leaders

# **Emergency Response Plan**

The purpose of the Emergency Response Plan is to provide a set of steps for leaders to follow in the event of an emergency which may include injury or death. The plan must detail how to minimise the escalation of the situation and the injuries incurred, and how to reduce the likelihood of further incidents occurring. The Emergency Response Plan must be site specific and maintain current details including

- Access and egress options
- Contingency plans for effective rescue with minimum environmental impact to the site
- Group assembly points
- Emergency contact details which may include
  - o Police
  - Relevant Agencies (EG Department of Environment and Conservation, land owners, rescue services, Department of Planning and Infrastructure)
  - o Options for accessing definitive medical care (hospital, doctor)
- Specific communication requirements / available networks

ALL leaders must carry a copy and be fully aware of the emergency response plan. A copy of the emergency response plan must also be kept (with other documentation) with a non-participating contact and be readily accessible by the leader via an available telecommunication method in the event of an incident / emergency.

The leader is to communicate with the relevant external contact at a designated time(s). Upon failure to do so the external contact must action the emergency response plan which may include contacting the police. In situations where there is only one leader, the emergency response plan ought to have been introduced to, and be available to members of the group so that it may be actioned in the event that the leader becomes unfit to do so.

Samples and suggested templates are available at www.outdoorswa.org

# **Leader: Participant Ratios and Group Size**

Whilst it is acknowledged that the characteristics profile of the group and the site, the purpose of the canyoning expedition, and the experience of the leader will influence the ratios of leaders to participants, the minimum ratios considered acceptable are

Horizontal Canyons One Leader Situations

Operational Ratio - applicable for recognised leader to actual participants 1:20

Vertical Canyons One Leader Situations

Operational Ratio - applicable for recognised leader to actual participants 1:8

Vertical Canyons Two+ Leader Situations

Operational Ratio - applicable for recognised leaders to actual participants 2:20

Operational Ratio - applicable for recognised leaders with additional responsible adult supervisor

1:1:12

Group size will be determined by both site characteristics and the application of the above ratios. Consideration must be given to the adequate supervision of non-participants.

# Minimal Environmental Impact Plan - Leave No Trace 7 Principles

#### 1. Plan Ahead and Prepare

Where possible provide shelter using tarps, poles etc or if this is not possible choose sheltered waiting
areas with durable surfaces, not only for the comfort of participants, but also to reduce the tendency for
waiting participants to push back into surrounding vegetation to find shelter

# 2. Travel and Camp on Durable Surfaces

- Use boulders and anchors before trees as anchor points
- If there is no alternative to using trees or other vegetation for belay points, protect them from rope damage by using rope padding or a minimum of 50 cm thick webbing
- Protect all plants, animals, historical and archaeological sites and geographic features
- Utilise recognised or designated tracks to approach and move between descents
- Avoid steep access and ascent tracks which will be more prone to erosion
- Manage groups to minimise disturbance to vegetation and erosion
- Select sites that have a rocky top and base capable of tolerating group traffic to minimise vegetation damage and erosion
- Do not brush moss or lichen from the cliff unless absolutely necessary for safety reasons
- Avoid the placement of new pitons or other non-removable protection for anchor points
- Do not fix materials including canvas and carpet to tree roots

## 3. Dispose of Wastes Properly

- · Canyons are often highly susceptible to contamination by human waste carry out all waste
- Carry out all rubbish, including foodstuffs as they may harm native wildlife
- Do not use soaps and detergents in canyons
- Urine and washing water waste should be disposed of at least 100 metres from any waterway
- · Avoid leaving food scraps that encourage the habituation of native animals

#### 4. Leave What You Find

- Wash all soil from camping and personal equipment and vehicles before moving between sensitive locations to avoid transporting seeds or soil-borne pathogens such as Phytophthora
- Avoid altering vegetation to better suit canyoning routes and access

#### 5. Minimise Campfire Impacts

• Observe Total Fire Bans and campfire regulations; liaise with local land management staff

#### 6. Respect Wildlife

- Try to minimise noise at the canyoning site
- Minimise interaction with wildlife including feeding
- Be aware of the nesting and behaviour patterns of wildlife found at the site

#### 7. Consider Your Hosts and Other Visitors

- Do not block footpaths with equipment or belayers
- Be aware of and diplomatic with other groups, individual canyoners and other recreational users
- Respect the wishes and regulations of all hosts indigenous, pastoral, land managers and locals

Further information is available at Leave No Trace Australia www.lnt.org.au

# REQUIREMENTS OF LEADERS

The performance of the leader is a critical factor in the safe conduct of a canyoning activity. The leader is required to

- accept responsibility for the planning, preparation and conduct of the canyoning experience
- maintain current skills, qualifications and experience as required
- accept responsibility for the environmental preservation of the site and surrounding area

This does not exclude the fact that participants are responsible for their own actions in relation to the potential risks that may be encountered by choosing to participate in a canyoning activity

# Responsibilities of Leaders

Leaders are required to accept the following responsibilities

- to use professional judgement to make decisions that will ensure the safety of all group members and maintain the integrity of the environment including matters relevant to
  - o people based risks\*
    - collect all documentation / forms signed by all participants / parents or guardians
    - communicate the risks relating to the activity to the group in a pre-activity briefing
    - match the experience / capabilities of the group to the canyoning activities including swimming ability
    - ensure all incidents are documented and reported to Outdoors WA in writing
  - site based risks\*
    - obtain a current flash flood warning (if available)
    - appropriately manage hazards including rock falls and drowning risks
    - be aware of and comply with the land/site manager's guidelines including minimal impact
    - manage the whole group effectively; ensure that your group behaves with respect for other users
    - in vertical canyons ensure all participants waiting to descend / ascend a section remain in a designated safe area and are appropriately supervised or directed
    - appoint appropriate external contacts to notify police etc. if not contacted by designated time/s
    - notify appropriate external contacts of safe return / completion
  - o equipment based risks\*
    - check suitability, condition and use of all equipment prior to, during & on return
    - ensure correct use of equipment by all participants
    - maintain and service all equipment in keeping with manufacturer's specifications
    - ensure that a First Aid Kit and communication equipment suitable for the location are in good order
  - environmental based risks\*
    - apply Leave No Trace Principles
    - comply with the land / site manager's guidelines including minimal impact principles relative to flora, fauna and rubbish removal
    - report all environmental damage to the Department of Environment and Conservation or other land manager
    - report any perceived breaches of the Canyoning AAS or the Roping Code of Practice to Outdoors WA
- \* to be read and applied in conjunction with additional details in the Western Australian Roping Code of Practice

#### **Recognition of Leaders**

Common safe practice is that the organisation responsible for an activity is responsible for selecting suitable leaders for that activity. Such organisations include clubs, educational institutions, community groups and commercial businesses. It is widely acknowledged that a qualification does not always mean competence; that confidence does not always accompany a list of competencies and that experience can be more valuable than a qualification. It is also acknowledged that qualities such as sound judgement, compassion and fairness are vital for outdoor leaders but are less easily measured than skills, knowledge and experience.

Normally all leaders will have all of the required skills, knowledge, experience and qualities. As people develop leadership skills they may assist in leadership roles with a more experienced leader. Where a leadership team operates, the leader in-charge must ensure that all skills are available within the group.

**Organisations MUST have a documented process to recognise leaders**. Factors to be considered when determining an appropriate recognition of leaders framework include but are not limited to the outcomes of a risk management process that considers;

- Participant, client and community expectations
- The organisational culture, capacity and experience
- Human and financial resources available
- The set of skills, knowledge, experience and qualities for specific contexts as outlined in Appendix A

Leaders of adventure activities can be recognised using **one or more** of pathways detailed below. Organisations develop and apply the recognition pathway(s) appropriate to their specific context.

# Possible pathways within a recognition of leaders framework

# Organisational accreditation or qualification

Key factors of an organisational accreditation or qualification system may include but are not limited to;

- Recognises the skills of the leader using a formal process
- Supports and recognises the progressive development of skills
- Maintains documented evidence of the accreditation or qualification system
- Is maintained by a group of leaders, usually more experienced leaders. (e.g. a committee or training team)
- Identifies individuals who are approved to conduct assessments using the system
- Is benchmarked against other recognised guidelines or criteria as identified in Appendix A
- Is contextualised to the organisations requirements; may have currency requirements

#### Peer recognition and verification

Key factors of peer recognition and verification process may include but is not limited to;

- Recognises the skills of the leader using a peer recognition process
- Progressive skills development is supported and recognised using a mentoring or coaching approach
- Documented evidence may include log books or other records of participation
- Verification is often conducted in-situ during participation
- Is based on the experience and judgement of the peer who is recognising the leader
- Is benchmarked against organisational context, expectations and other related experience as identified in Appendix A
- Currency of skills is usually demonstrated through regular participation

#### Formal training qualifications

A relevant activity qualification in outdoor recreation along with accompanying log book. Refer to Appendix B for a list of appropriate qualifications.

# Leader registration schemes

Registration as an activity leader under a registration scheme. Refer to Appendix B for a list of appropriate registration/award schemes.

#### Examples of how leader recognition pathways may be applied

- 1. A club or community group may consider peer recognition and verification an appropriate means of recognising leaders within their context and expectations;
- 2. A small organisation determines that it will use a national registration scheme as its primary recognition pathway with peer verification during initial supervised programs.
- A large community based organisation may apply their own organisational accreditations, supplemented by peer recognition and verification in specific situations that are appropriate to their organisational culture;
- 4. A commercial outdoor education provider may consider that a Certificate III in Outdoor Recreation and their own organisational accreditations are a basis for employment and supplement this with a peer recognition and verification during a period of probationary employment.

# **Identified pathways**

In the absence of specific training and or assessment providers for canyoning skills / competencies, the Industry Standards Panel has agreed that the following shall be accepted as **one pathway** to meet the minimum industry standards in WA. These requirements are of particular relevance to the Kalbarri and Karijini National Parks

- **A. Horizontal Canyoning** Outdoor Leaders will be deemed to meet the minimum requirements if they have achieved
  - The skills required for a Bushwalking Guide (Uncontrolled) as identified in the Bushwalking AAS; AND
  - Qualifications / competencies in
    - Bronze Medallion OR Surf Rescue OR Swiftwater Rescue; and
    - Wilderness First Aid or Remote Area First Aid

Horizontal Canyoning - restricted to leading groups at sites which provide the opportunity for Horizontal Canyoning <u>only</u> including sections of swimming and small vertical drops (which do not require abseils) including potentially slippery rocks and bouldering.

Sites deemed appropriate for Horizontal Canyoning shall be so deemed by a person with the skills, knowledge and experience equivalent to a Horizontal Canyoning Instructor OR the Industry Standards Panel. (This analysis of suitability may result in the establishment of a recognised local and established Canyoning route, or sites assessed and used by specific organisations).

In order to demonstrate currency, an outdoor leader must have verifiable evidence of conducting a site based reconnaissance trip prior to the group's departure.

- **B. Vertical Canyoning Single Pitch** Outdoor Leaders will be deemed to meet the minimum requirements if they have achieved in the relevant AAS:
  - The skills required for Bushwalking Guide (Uncontrolled); and
  - The skills required for Abseiling Guide (Single Pitch Natural Surfaces); and
  - The skills required for Rock Climbing Guide (Single Pitch Natural Surfaces)
  - Qualifications / competencies in
    - Bronze Medallion OR Surf Rescue OR Swiftwater Rescue; and
    - Wilderness First Aid or Remote Area First Aid

Vertical Canyoning - may lead groups at sites which provide the opportunity for Horizontal <u>and</u> Vertical Canyoning including sections of swimming and vertical drops which may or may not require single pitch abseiling or climbing / bouldering

Sites deemed appropriate for Vertical Canyoning shall be so deemed sites by a person with the skills, knowledge and experience equivalent to a Vertical Canyoning Instructor OR the Industry Standards Panel. (This analysis of suitability may result in the establishment of a recognised local and established Canyoning route, or sites assessed and used by specific organisations).

In order to demonstrate currency, an outdoor leader must have verifiable evidence of conducting a site based reconnaissance trip prior to the group's departure.

# FIRST AID REQUIREMENTS

Canyoning groups require leaders with first aid skills in addition to the competencies listed in Appendix A. The following framework guides the level of first aid qualification required.

- Senior First Aid (within one hour from definitive medical care)
- Advanced / Wilderness / Remote Area First Aid (beyond one hour from definitive medical care)

## **EQUIPMENT**

Equipment requirements vary with the objectives of the activity, the group characteristic profile and the environmental conditions likely to be encountered. When planning equipment requirements for a session it is important to consider all possible eventualities and to select equipment that will minimise cultural and environmental impact of the activity (refer www.lnt.org.au)

#### HORIZONTAL CANYONING

# Participant's Equipment\*

The following equipment requirements apply to all participants

- Helmet specifically designed for rock climbing / canyoning and which adheres to UIAA, CE, ANSI or
  equivalent must be worn whenever there is a risk of falling objects
- Suitable footwear which may include walking boots (dry canyons) and adventure shoes / sandals (wet canyons)
- Appropriate clothing for the canyon selected (wetsuit or equivalent in wet canyons)
- Buoyancy aid (where swimming is required in wet canyons)
- Whistle (recommended)
- Drinking water if the canyon water is not potable
- Participant's personal medication
- Appropriate footwear must be worn both to access the site (where relevant) and for the session

# Leader's Equipment\*

The following equipment requirements, in addition to that listed above, apply to leaders conducting dependant group canyoning activities

- Whistle
- Spare group equipment including flotation, thermal clothing, flotation, drinking water and snack foods (as required by the selected canyon)

# **Group Equipment\***

The following equipment is required for all dependant group canyoning activities

- Emergency communication equipment (mobile phone, radio, PLB and or details of nearest landline if in remote area etc.)
- A First Aid Kit appropriate for the level of training completed, the type of canyon and the size of the group
- Tools for proper waste disposal (ie trowel if necessary)
- Equipment to clean footwear, tyres, hardware and ropes when moving between areas affected by soil borne pathogens such as phytophthora
- to be read and applied in conjunction with additional details in the Western Australian Roping Code of Practice

# **VERTICAL CANYONING**

# Participant's Equipment\*

The following ADDITIONAL equipment requirements apply to all dependent participants in vertical canyoning

- Harness specifically manufactured for roping activities including vertical canyoning and which adheres to UIAA,CE or equivalent and is used in accordance with the manufacturer's specifications
- Figure 8 or alternative descender / belay device
- Locking karabiner
- Waterproof gloves (recommended for abseiling components)

# Leader's Equipment\*

The following ADDITIONAL equipment requirements, in addition to that listed above, apply to leaders conducting dependant group canyoning activities

- Knife suitable for cutting ropes in emergency situations (preferably on a lanyard)
- Spare sling
- A rescue pack of pulleys, prussic loops or ascenders, and a belay device should be readily available for rescue
- Whistle

# **Group Equipment\***

The following ADDITIONAL equipment is required for all dependant group canyoning activities

- Ropes and all protective equipment (karabiners, slings and chocks) which adhere to UIAA, CE or
  equivalent and must be manufactured specifically for rock climbing / canyoning, and used in
  accordance with manufacturer's specifications and accepted practice
- An additional rope, equivalent to the longest pitch should be accessible for rescue

\*to be read and applied in conjunction with additional details in the Western Australian Roping Code of Practice

# **DEFINITION OF TERMS**

- Activity Provider an entity, person or group of persons assuming the role of providing the activity (the activity provider) for a dependent group of participants for a specific commercial or not – for – profit purpose
- **Dependent Group / Participant** a group or individual within a group whose welfare associated with participating in the activity is in part the responsibility of the leader; who is dependent upon the leader for their safe participation in the activity which may be so deemed by law or contract
- Outdoor Leader term for an individual accepting the roles of leading and managing the outdoor activity; can be a guide or instructor; can be paid or voluntary
- Responsible Adult adult person deemed, by the outdoor leader, as adequately capable of
  accepting responsibility for selected aspects of the management of the group and or its participants
  in conjunction with the safe conduct of the activity
- Competency minimum industry agreed standard of skill and knowledge necessary for a specific activity being conducted at a specific level
- UIAA Union Internationale des Associations d'Alpinisme
- **CE** European Community
- ANSI American National Standards Institute
- PLB Personal Locator Beacon
- Phytophthora Phytophthora Dieback: is a microscopic soil borne water mould that attacks plants. It impacts 40 percent of our native plant species and threatens whole communities including animal habitats. It is spread in the movement of infested water, soil or plant material. As the name water mould suggests, it requires moist conditions to thrive. Its food source is the root and basal stem tissue of living plants. It is currently the biggest threat to biodiversity in Australia and it is spread extensively by human activity. More information is available online at www.dieback.net.au
- Belay technique of controlling the rope so that a participant can not fall very far. This task is assigned to a belayer. The term belay is also used to mean the place where the belayer is anchored. Control of the rope is achieved through applying friction, which allows control of the speed at which the rope slides past the belayer. This friction is generally achieved by forcing the rope through tight bends and past rough surfaces. Belaying is a critical part of the safety system. By using a correct belaying method, the belayer can hold the entire weight of the participant by using

- relatively little force, and can easily arrest even a long fall. By using a mixture of belaying angle and hand-grip on the rope, a participant can be lowered gently by the belayer to a safe point
- Bouldering a style of rock climbing undertaken without a rope and normally limited to very short climbs so that a fall will not result in serious injury. Bouldering is a style of climbing emphasizing power, strength, and dynamics. Its focus is on individual moves or short sequences of moves. For protection, climbers typically put a bouldering mat (crash pad) on the ground to break their fall and have one or more spotters, who work to direct the climber's body toward the crash pad during a fall, while protecting the climber's head from hazards
- Spotting a technique used where participants are close to the ground and ropes are not used. The spotter stands below the participant, with arms raised or at the ready. If the participant falls, the spotter does not catch the participant but redirects the participant's fall so that they land safely. At the very least the spotter ensures that the participant's head and back do not strike the ground directly. If the participant jumps down, the spotter can also help prevent stumbles and injuries on uneven ground. When spotting you should always use "spoons" (all fingers together) because fingers can be broken if your fingers are spread apart. A spotter should always be used for accident prevention. A spotter will typically hold their arms up with hands in a supporting position for more or less vertical climbs. When the participant falls, the spotter's hands lightly hold the participant's hips or lower back, near their centre of gravity. This allows the spotter to help guide the participant's fall effectively, helping them keep the centre of gravity over their feet. When on steeper, past vertical activities, the spotter will hold their arms out in a cradling position. If the participant were to unexpectedly fall, the spotter supports the upper and middle back, helping the participant, land on their feet

## **ACKNOWLEDGEMENTS**

The Adventure Activity Standards initially developed by The Outdoor Recreation Centre in Victoria proved to be an invaluable resource in the development of the Western Australian Adventure Activity Standard for Canyoning. Changes to the AAS have also drawn from the Queensland and NSW AAS.

# FEEDBACK, REVIEW & APPEALS

The AAS are designed to be 'living' standards with feedback, requests for review and/or appeal against aspects of a standard considered to be healthy part of the development process, one that will ensure the currency & relevancy of the standards. Feedback, requests for review and/or appeals will be managed by the Industry Standards Panel. Details and proformas are available at <a href="https://www.outdoorswa.org">www.outdoorswa.org</a> / industry quality framework / Industry Standards Panel.

# **FURTHER INFORMATION**

Contact Outdoors WA for further information or to obtain contact details of the organisations conducting canyoning activities and training.

TELEPHONE: 08 9468 0102

EMAIL: executiveofficer@outdoorswa.org

WEB: <u>www.outdoorswa.org</u>

# Appendix A: Provisional skills, knowledge, experience and qualities

This set of skills is taken from the Queensland Adventure Activity Standards and reflects Skills Sets from the SIS10 Outdoor Recreation Training Package that have been identified through consultation with the Outdoor Council of Australia (OCA), the peak body for the Outdoor Recreation industry and will be utilised as the basis for the registration requirements of programs like the National Outdoor Leader Registration Scheme (NOLRS). Descriptions for the unit code can be found at training.gov.au

In the absence of any other agreed list, they are provided as a provisional list until such time as a review of the AAS in its entirety occurs.

This is a suggested list of skills. Organisations can use this as a guide and may amend to suit their specific needs and contexts.

# **Canyoning Guide (Single Pitch)**

Those wishing to guide single pitch vertical canyoning activities.

| PUAOPE002B  | Operate communications systems and equipment           |
|-------------|--|
| SISONAV302A | Apply navigation skills in an intermediate environment |
| SISOCAY302A | Apply vertical canyoning skills                        |
| SISOCAY303A | Establish belays in canyons                            |
| SISXCAI306A | Facilitate groups                                      |
| SISXOHS101A | Follow occupational health and safety policies         |
| SISOODR303A | Guide outdoor recreation sessions                      |
| SISOCAY304A | Guide single pitch canyoning trips                     |
| SISOOPS306A | Interpret weather conditions in the field              |
| SISOOPS201A | Minimise environmental impact                          |
| SISCAQU202A | Perform basic water rescues                            |
| SISOVTR301A | Perform vertical rescues                               |
| SISOOPS304A | Plan for minimal environmental impact                  |
| SISOODR302A | Plan outdoor recreation activities                     |
| SISOOPS305A | Provide first aid in a remote location                 |
| SISXEMR201A | Respond to emergency situations                        |
| SISXRSK301A | Undertake risk analysis of activities                  |
|             |  |

## **Canyoning Guide (Multi Pitch)**

DLIAODEOOSB

Those wishing to guide multi pitch canyoning activities.

| Operate communications systems and equipment           |
|--|
| Perform basic water rescues                            |
| Apply vertical canyoning skills                        |
| Establish belays in canyons                            |
| Guide single pitch canyoning trips                     |
| Apply advanced vertical canyoning skills               |
| Establish complex belays in canyons                    |
| Guide multi pitch canyoning trips                      |
| Apply navigation skills in an intermediate environment |
| Plan outdoor recreation activities                     |
| Guide outdoor recreation sessions                      |
| Manage risk in an outdoor activity                     |
|  |

Operate communications systems and equipment

| SISOOPS201A | Minimise environmental impact                 |
|-------------|---|
| 01000000044 | Diam tan activities at a serior assessment at |

SISOOPS304A Plan for minimal environmental impact
SISOOPS305A Provide first aid in a remote location
SISOOPS306A Interpret weather conditions in the field
SISOVTR402A Perform complex vertical rescues

SISXCAI306A Facilitate groups

SISXEMR201A Respond to emergency situations SISXEMR402A Coordinate emergency responses

SISXOHS101A Follow occupational health and safety policies

SISXOHS402A Implement and monitor occupational health and safety policies

# **Canyoning Instructor (Single and Multi Pitch)**

Those wishing to instruct canyoning activities which are single pitch or multi pitch.

PUAOPE002B Operate communications systems and equipment

SISCAQU202A Perform basic water rescues

SISOCAY201A Demonstrate horizontal canyoning skills

SISOCAY302A Apply vertical canyoning skills SISOCAY303A Establish belays in canyons

SISOCAY405A Apply advanced vertical canyoning skills SISOCAY406A Establish complex belays in canyons

SISOCAY508A Instruct canyoning skills

SISONAV302A Apply navigation skills in an intermediate environment

SISOODR302A Plan outdoor recreation activities
SISOODR303A Guide outdoor recreation sessions
SISOODR404A Manage risk in an outdoor activity
SISOOPS201A Minimise environmental impact

SISOOPS304A Plan for minimal environmental impact SISOOPS305A Provide first aid in a remote location SISOOPS306A Interpret weather conditions in the field

SISOVTR402A Perform complex vertical rescues

SISXCAI306A Facilitate groups

SISXEMR201A Respond to emergency situations
SISXEMR402A Coordinate emergency responses

SISXOHS101A Follow occupational health and safety policies

TAEDEL301A Provide work skill instruction

# Appendix B: Qualifications and registration/award schemes

The intention of this list is to identify common qualifications utilised in WA that may be considered when identifying the skills required to perform the activity. This list is not comprehensive. The list is reviewed as part of the Adventure Activity Standards review process. An up-to-date list is maintained on the Outdoors WA Website.

# **Qualifications**

- VET Outdoor Recreation Training Package Certificate III or higher with a skills set / competency list consistent with the requirements of Appendix A of this document
- Bronze Medallion, or Surf Rescue, or Swiftwater Rescue qualification where this is combined with bushwalking, abseiling and climbing skills as identified in Appendix A.

# Registration/award schemes

• National Outdoor Leadership Registration Scheme in appropriate canyoning activity area.