



Australian Government

SISOCLM001 Top rope climb single pitches, artificial surfaces

Release: 1

SISOCLM001 Top rope climb single pitches, artificial surfaces

Modification History

Not applicable.

Application

This unit describes the performance outcomes, skills and knowledge required to climb single pitches on artificial surfaces using top rope techniques. It also requires the ability to belay top rope climbers. Artificial surfaces can be fixed or portable structures and can be in indoor or outdoor environments.

It applies to leaders, guides or instructors, who use these skills when leading participants during climbing activities. Leadership skills are provided in complementary units.

This unit applies to any type of organisation that delivers recreation activities including commercial, not-for-profit and government organisations.

No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Climbing

Unit Sector

Outdoor Recreation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes

1. Prepare for the climb.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1. Select clothing, footwear and personal protective equipment suitable for the climb and conditions.
- 1.2. Confirm activity safety and emergency response procedures to ensure compliance during activities.
- 1.3. Confirm protocols for communications between climber and belayer.
- 1.4. Interpret route description; identify position of artificial

- features and the climb route.
- 1.5. Attach and adjust belay equipment to self and tie knots suitable for the established belay system.
 - 1.6. Complete equipment safety checks prior to climbing or belaying.
 2. Climb and descend single pitch routes using top rope techniques.
 - 2.1. Use safety procedures at bottom, top of and throughout climbs to minimise risk to self and others present.
 - 2.2. Use appropriate posture and climbing techniques suitable to artificial features and holds.
 - 2.3. Locate and evaluate artificial features during climb and adjust technique to suit.
 - 2.4. Locate and utilise rest positions to reduce fatigue.
 - 2.5. Safely approach, avoid or negotiate hazards to ascend and descend in a controlled manner.
 - 2.6. Maintain effective communication with belayer throughout climb.
 - 2.7. Use appropriate posture and top rope lowering techniques during descent.
 - 2.8. Use techniques that minimise damage to equipment and the surface during climb.
 3. Belay top rope climbers.
 - 3.1. Avoid or negotiate hazards and use safety procedures to minimise risk to self and others present.
 - 3.2. Establish belaying position and attach self to anchor, as required, to allow effective and safe use of belay system.
 - 3.3. Maintain rope tension to minimise fall distance and ensure climber movement is not unduly restricted.
 - 3.4. Monitor climber progress constantly, and maintain clear communication with climber.
 - 3.5. Arrest falls promptly using technique suitable to belaying device and situation.
 - 3.6. Safely and efficiently secure climber using tie off techniques; release tie off and allow climber to continue.

Foundation Skills

Foundation skills essential to performance in this unit, but not explicit in the performance criteria are listed here, along with a brief context statement.

SKILLS

DESCRIPTION

Reading skills to:

- interpret detailed and familiar organisational safety and emergency response procedures.

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|------------------------------------|--|
| Oral communications skills to: | • use clear and unambiguous verbal and non-verbal communications to make intent known. |
| Numeracy skills to: | • visually estimate angles, estimate load on ropes to determine appropriate tension for climbing and belaying. |
| Planning and organising skills to: | • manage own timing to complete activities within planned timeframes. |

Unit Mapping Information

No equivalent unit.

Links

Companion Volume Implementation Guides -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1ca50016-24d2-4161-a044-d3faa200268b>

Assessment Requirements for SISOCLM001 Top rope climb single pitches, artificial surfaces

Modification History

Not applicable.

Performance Evidence

Evidence of the ability to complete tasks outlined in elements and performance criteria of this unit in the context of the job role, and:

- complete four single pitch top rope climbing sessions on artificial surfaces and collectively use six of the following techniques:
 - bridging
 - heel hooks
 - jamming
 - laybacking
 - mantle
 - pinch grips
 - side pulls
 - smearing
 - underclings
- during each of the above climbs, consistently:
 - follow safety procedures and safely negotiate hazards to climb in a controlled manner
 - connect self to belay system using appropriate device and or knots
- belay climbers according to safety procedures, and complete the following:
 - four belays
 - two simulated climber falls, and safely and efficiently secure and release climber to continue.

Knowledge Evidence

Demonstrated knowledge required to complete the tasks outlined in elements and performance criteria of this unit:

- organisational safety and emergency response procedures for climbing activities
- purpose, features, and correct fit for safety, of personal protective equipment used for climbing on artificial surfaces:
 - clothing
 - climbing shoes
 - abseiling/climbing helmets
 - harnesses of different types, advantages and disadvantages

- features, functions and operation of tope rope climbing equipment used on artificial surfaces:
 - carabiners
 - static and dynamic rope and when each might be used
 - tape
 - sewn sling
 - Prusik cord
 - chalk bag and chalk
 - top rope bottom belay systems
 - belay devices:
 - assisted locking
 - inline
 - plate
 - figure 8
 - tubular
 - improvised
- types of equipment and knots used, and how to tie them, when:
 - attaching belay equipment to self
 - attaching belay system to anchors
- types of personal and equipment safety checks completed prior to climbing and belaying
- tope rope climbing techniques and appropriate posture for artificial surfaces and structures to include those for:
 - bridging
 - heel hooks
 - jamming
 - laybacking
 - mantle
 - pinch grips
 - side pulls
 - smearing
 - underclings
 - lowering self during descents
- climbing techniques which are best suited to these artificial climb features:
 - aretes
 - chimneys
 - corners
 - cracks
 - edges
 - flakes
 - jugs

- overhangs
- roofs
- pinnacles
- ledges
- pockets
- techniques for belaying others during tope rope climbs on artificial surfaces to include those for
 - establishing belaying position for effective and safe use of belay system
 - rope handling and maintaining adequate rope tension
 - arresting climber falls
 - securing climber, tying off belay system and releasing
- reasons for attaching belayer to anchor system when belaying others including:
 - minimising belayer movement to retain stable position and stance
 - minimising effects of force of climber fall and risk of injury to belayer
 - minimising risk of belayer fall
- communication protocols used between climbers and belayers to include:
 - calls
 - hand signals
 - whistles
- typical hazards for single pitch top rope climbing on artificial surfaces and structures, and techniques used to safely negotiate these:
 - sharp or protruding fittings and fixtures
 - surface irregularities
 - ledges
 - tangled rope
 - falling objects
- how to care for climbing equipment during activities to avoid damage, and promote long lifespan.

Assessment Conditions

Skills may be demonstrated in an indoor or outdoor environment where single pitch top rope climbs are completed on artificial surfaces. Artificial surfaces can be fixed or portable structures.

The following resources must be available to replicate industry conditions of operation:

- first aid equipment
- communication equipment for emergency response
- rescue equipment.

Assessment must ensure use of:

- participants with whom the individual interacts during climbing activities
- personal protective equipment to include:
 - abseiling or climbing helmets
 - harnesses
- established anchors for the artificial structure
- climbing equipment to include:
 - carabiners
 - rope which can include static and or dynamic rope
 - tape or sewn sling
 - Prusik cords
 - chalk bag and chalk
 - belay devices
- template safety checklists
- organisational safety and emergency response procedures for climbing activities.

Assessors must satisfy the Standards for Registered Training Organisations requirements for assessors, and:

- have a collective period of at least three years' experience as a climbing leader, guide or instructor, where they have applied the skills and knowledge covered in this unit of competency: the three years' experience can incorporate full and or part time experience.

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