



Australian Government

Department of Education, Employment and Workplace Relations

SISOC LA510A Instruct lead climbing on multi pitch artificial surfaces

Release: 2

SISOC LA510A Instruct lead climbing on multi pitch artificial surfaces

Modification History

Not Applicable

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to instruct climbing on multi pitch artificial surfaces. This unit focuses on planning, instructing and evaluating an instructional climbing session to enable participants to achieve the skills and knowledge required to participate independently, or with minimal supervision, in multi pitch climbing on artificial surfaces.

Application of the Unit

This unit applies to those working as climbing instructors or assistant instructors in a range of multi pitch artificial conditions.

This unit also applies to outdoor recreation leaders working for outdoor education or adventure providers; volunteer groups; not-for-profit organisations or government agencies.

Licensing/Regulatory Information

No licensing, regulatory or certification requirements apply to this unit at the time of endorsement.

Pre-Requisites

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

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|--|---|
| <p>1. Plan a climbing session.</p> | <p>1.1. Establish <i>participant's needs and characteristics</i>.</p> <p>1.2. Assess participant's current climbing knowledge in order to determine the <i>session's aims and objectives</i>.</p> <p>1.3. Determine an appropriate <i>instructional plan</i> according to participant's needs and characteristics.</p> <p>1.4. Develop a <i>climbing plan</i> according to participant's needs and characteristics, <i>relevant legislation</i> and <i>organisational policies and procedures</i>.</p> <p>1.5. Identify potential <i>hazards</i> associated with climbing on <i>artificial surfaces</i> and minimise <i>risks</i>, according to organisational policies and procedures.</p> <p>1.6. Access <i>relevant sources</i> to interpret detailed <i>weather and environmental information</i> and determine <i>contingency plans</i>.</p> |
| <p>2. Select and organise equipment and resources.</p> | <p>2.1. Select and access <i>equipment</i> and <i>resources</i> according to <i>contextual issues</i> and organisational policies and procedures, and check serviceability.</p> <p>2.2. Check equipment for safety and suitability, according to relevant legislation and manufacturer's recommendations and adjust and fit to ensure personal comfort.</p> <p>2.3. Check contents of first aid and repair kits to ensure suitability to the location and activity.</p> |
| <p>3. Brief participants.</p> | <p>3.1. Communicate instructions and <i>relevant information</i> about the climbing session in a manner appropriate to the participants.</p> <p>3.2. Encourage participants to seek clarification, information and feedback as required during the session.</p> <p>3.3. Establish a suitable <i>communication system</i> for participants to use while climbing and belaying.</p> <p>3.4. Inform participants of known and anticipated</p> |

ELEMENT	PERFORMANCE CRITERIA
4. Instruct a climbing session.	hazards, safety procedures and appropriate behaviour.
	3.5. Check and confirm participants are properly equipped for the session.
	4.1. Conduct warm-up and or introductory activities for participants to reduce the risk of injury.
	4.2. Monitor individual participant's performance during climbing session.
	4.3. Apply clear and accurate instructional techniques to impart activity specific knowledge, climbing skills and safety and rescue procedures .
5. Complete post session responsibilities.	4.4. Demonstrate how emergency and non routine situations are to be dealt with according to organisational policies and procedures.
	4.5. Allow time for cooling down at the end of the session and inform participants of opportunities to further develop their climbing skills and knowledge.
	5.1. Retrieve, inspect, repair and store equipment according to organisational policies and procedures.
	5.2. Provide opportunities for participants to identify their personal progress and satisfaction with the session and give feedback as required.
	5.3. Evaluate relevant aspects of climbing session, and determine the level of learning achieved.
	5.4. Identify potential areas of improvement for future climbing instructional sessions.

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

- communication skills to:
 - consult with participants to plan a climbing session that meets their needs
 - convey information about the safety aspects of the session
 - interact with participants to create a safe and positive climbing environment
- problem-solving skills to:
 - plan a suitable climbing session according to participant's needs and characteristics
 - address participant difficulties in developing climbing techniques
 - anticipate and respond appropriately to non routine situations
- planning and organising skills to:
 - source, allocate and coordinate resources, equipment and a multi pitch artificial site suitable for the participants
 - monitor and evaluate progress
 - organise participants into manageable groups for climbing and belaying
- language and literacy skills to:
 - produce climbing and instructional plans for the climbing session
 - complete post session participant and self evaluations
- instructional techniques to suit a range of participant's needs and characteristics
- personal climbing skills to a high level of technical correctness to demonstrate and explain climbing and belaying techniques to participants
- first aid and emergency response skills appropriate to the location to enable initial response and or rescue in emergencies.

Required knowledge

- relevant legislation and organisational policies and procedures to enable safe and non-discriminatory conduct of climbing session
- site specific information to assist in the planning process and enable management of potential climbing hazards, and any special restrictions applying to the site
- equipment types, characteristics and technology used for multi pitch climbing on artificial surfaces, the advantages and disadvantages of the range of equipment and factors affecting appropriate selection of equipment
- clothing and footwear requirements for climbing activities to ensure comfort and safety
- care and maintenance of climbing equipment to ensure prolonged life span and safety requirements
- instruction techniques and theories applicable to a range of ages and learning abilities
- climbing techniques and common communication methods and calls used between

climbers and belayers to reduce risk during multi pitch climbing on artificial surfaces

- belay systems, devices and anchors appropriate for multi pitch artificial surfaces
- technical climbing knowledge, such as techniques and procedures to suit the features of the surface
- weather and environmental information to ascertain possible conditions and their affect on the session, if outdoors
- hazards that may be experienced in an artificial climbing environment
- emergency procedures, potential hazards and obstacles relevant to the location to ensure safety of self and others.

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Evidence of the following is essential:

- plans and delivers information, explanations and demonstrations for multi pitch climbing session to ensure activities are conducted safely according to participant's needs and characteristics
- observes and monitors the progress of participants and provides constructive feedback and intervention and modifies instructional techniques and or activities to improve climbing performance
- instructs climbing activities, using a variety of instructional techniques that reflect the needs and characteristics of a range of participants
- evaluates and reflects on own instruction performance to identify strengths, weaknesses and areas that need improvement.

Context of and specific resources for assessment

Assessment must ensure instruction of climbing activities, using instructional techniques that reflect the needs and characteristics of a range of participants to demonstrate competency and consistency of performance

Assessment must also ensure access to:

- resources and information regarding participants and location to accurately plan, instruct and document climbing sessions for a variety of participants
- a multi pitch artificial climbing site suitable for the conduct of instructional sessions
- a group of participants to take part in the climbing session
- equipment such as harnesses, helmets, belay devices, ropes, gloves, karabiners, chalk, quick draws and climbing shoes.

Method of assessment

A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:

- oral and or written questioning to assess knowledge of relevant legislation and organisational policies and procedures to enable safe conduct of all climbing activities during the session

- observation of safe climbing instruction, monitoring and adjustment according to participant's needs and characteristics
- review of climbing session plans
- third-party reports from a supervisor detailing performance.

Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example:

- SISOVTR301A Perform vertical rescues
- SISOCCLA407A Apply multi pitch lead climbing skills on artificial surfaces
- SISOCCLA408A Establish belays for multi pitch climbing on artificial surfaces.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Participant's needs and characteristics may include:

- age
- cultural factors
- situational factors
- previous experience
- fitness level
- climbing skills and knowledge
- physical capabilities
- injuries and illnesses.

Session's aims and objectives may include:

- applying multi pitch climbing skills independently
- establishing ropes for multi pitch climbing
- selection and or use of equipment
- self improvement
- meeting people
- fitness targets
- adventure and recreation.

Instructional plan may include:

- climbing activities and drills
- duration of activities and drills.

Climbing plan may include:

- session's aims and objectives
- date, time and duration
- location or site
- instructor and participant ratios
- resources
- equipment
- food and water
- weather details
- participant information
- safety requirements.

Relevant legislation may include:

- occupational health and safety
- permits from land management authorities
- authority or permission from land owners
- equal opportunity
- privacy
- working with children

- Organisational policies and procedures*** may include:
- environmental regulations.
 - occupational health and safety
 - time and budget constraints
 - use and maintenance of equipment
 - communication protocols
 - confidentiality of participant information
 - instructor and participant ratios
 - emergency and safety procedures
 - code of ethics.
- Hazards*** may include:
- environmental hazards
 - set-up hazards
 - group management hazards
 - climber hazards
 - dangerous fauna
 - dangerous flora.
- Artificial surfaces*** may include:
- portable or fixed walls
 - fixed towers or bridges
 - indoor or outdoor
 - multi pitch.
- Risks*** may include:
- injuries and illness
 - gear fall
 - exhaustion
 - equipment failure.
- Relevant sources*** may include:
- Bureau of Meteorology
 - media
 - land managers or agencies
 - local knowledge.
- Weather and environmental information*** may include:
- satellite images
 - daily and weekly forecasts
 - maximum and minimum temperatures
 - weather warnings
 - event warnings
 - river levels
 - synoptic charts
 - high and low tide predictions.
- Contingency plans*** may include:
- change in weather
 - equipment failure
 - unavailability of artificial pitch.
- Equipment*** may include:
- climbing equipment
 - safety equipment
 - rescue equipment.

Resources may include:

- food and water
- personal clothing and footwear
- teaching aids
- suitable artificial structure for instructing climbing.

Contextual issues may include:

- time of day
- season
- weather
- location
- equipment
- experience of participants
- experience of instructor
- age of participants
- physical health of participants
- number of support staff
- safety requirements
- climber's and belayer's abilities
- weight ratio of climber to belayer
- group size
- other users
- pitch height
- environmental impact
- soundness of features
- access and egress
- group management.

Relevant information may include:

- equipment requirements, selection and use
- safety procedures
- risk prevention
- possible hazards
- climbing and belaying techniques
- communication
- objectives
- rules and codes
- responsible and safe behaviour.

Communication system may include:

- calls
- radio
- hand signals
- whistles.

Safety procedures may include:

- A - anchors - secure and suitable to application
- B - buckles - locked as per manufacturers recommendations

- C - connector - locked, secured and orientated
 - D - devices - threaded correctly and secured
 - E - organisation specific procedures including; end or rope knots, friction hitches, belayer ready, helmet chin strap, clothing, jewellery and hair secured.
 - F- friend - cross check.
- Participant's performance*** may include:
- use of appropriate communication system
 - climbing technique
 - belaying technique
 - attitude and behaviour
 - negotiation of hazards
 - use of equipment.
- Instructional techniques*** may include:
- simple to complex
 - part to whole
 - chronological
 - known to unknown
 - D.E.D.I.C.T.
 - E.D.I.C.T.
 - I.D.E.A.
- Required knowledge*** may include:
- climbing skills and techniques
 - establishment of ropes
 - features of an artificial surface
 - factors to consider when planning a climb
 - minimal impact practices
 - risk and hazard management
 - equipment selection, use and maintenance
 - communication systems used in climbing.
- Climbing skills*** may include:
- climbing and belaying techniques
 - establishment of ropes for a multi pitch
 - communication of progress
 - negotiation of hazards and or risks
 - use and maintenance of equipment.
- Safety and rescue procedures*** may include:
- emergency response procedures
 - group management in emergency situations
 - relevant legislation
 - organisational policies and procedures
 - opportunities to practice
 - emergency response equipment
 - understanding of safety practices.
- Opportunities*** may include:
- locations suitable to skill level
 - range of equipment and clothing available

Relevant aspects may include:

- climbing clubs or groups in the local area.
- objectives
- planning process
- activity site
- weather
- equipment selection
- clothing selection
- food selection
- instructional content
- instructional technique
- assessment technique
- group feedback
- directing techniques
- rescue techniques employed.

Unit Sector(s)

Outdoor Recreation

Competency Field

Climbing artificial surfaces