



Australian Government

Department of Education, Employment and Workplace Relations

SISOC LA305A Apply route setting skills

Release: 2

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Modification History

Not Applicable

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to independently set climbing routes on artificial surfaces in a variety of contexts such as indoor, outdoor, single and multi pitch.

Application of the Unit

This unit applies to those working as climbing guides or assistant guides and are required to set climbing routes in a range of 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

Nil

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.

1. Select and use equipment for route setting.

- 1.1. Select **equipment** according to **contextual issues** and **organisational policies and procedures**.
- 1.2. Adjust and fit equipment to ensure personal comfort and safety, and check serviceability.
- 1.3. Choose a selection of **holds** appropriate to the type of wall and level of difficulty.

2. Demonstrate route setting skills.

- 2.1. Set a **route** of required difficulty according to appropriate **safety procedures**.
- 2.2. Display appropriate positioning of holds with regards to hazards and **obstacles** on the wall.
- 2.3. Use bolts that are appropriate to hold being used.
- 2.4. Fasten all holds to wall securely.
- 2.5. Demonstrate appropriate care and maintenance of route setting equipment, including **cleaning** of holds.
- 2.6. Apply an appropriate method of **marking** out a route where a wall has more than one route on it.

Required Skills and Knowledge

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

Required skills

The following skills must be assessed as part of this unit:

- problem-solving skills to position holds and set a route appropriate to the level of difficulty
- climbing skills to understand the physical demands and dynamics of climbing on a range of artificial surfaces
- rope handling skills to maintain rope safety while route setting
- first aid and emergency response skills appropriate to the location to enable initial response to emergencies and personal health care.

Required knowledge

The following knowledge must be assessed as part of this unit:

- organisational policies and procedures to enable safe conduct of activities
- equipment types, characteristics and technology used for route setting on a variety of artificial pitches
- care and maintenance of route setting equipment, such as cleaning of holds, to ensure prolonged life span and safety requirements
- forces placed on holds during climbing and the affect this has on the placement of and distance between holds
- emergency procedures and potential hazards relevant to the location to ensure risk minimisation to 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:

- selects, fits and maintains equipment independently and carries out safety checks to ensure effective working order
- negotiates obstacles and hazards while positioning and fastening holds to a desired level of difficulty.

Context of and specific resources for assessment

Assessment must ensure participation in route setting activities on artificial surfaces that are of a sufficient duration to allow the participant to demonstrate competency and consistency of performance

Assessment must also ensure access to:

- resources and information regarding route setting and climbing to accurately select equipment to position and fasten holds
- suitable artificial climbing sites that allow participant to Apply route setting skills
- route setting equipment such as harnesses, helmets, ascending and descending devices, ropes, holds and fasteners.

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:

- observation of selection and use of route setting equipment appropriate to the artificial pitch and level of difficulty
- oral or written questioning to assess knowledge of organisational policies and procedures to enable safe conduct of activities
- observation of safe participation and demonstration of route setting skills, such as positioning and fastening holds to a desired level of difficulty
- observation of care and maintenance of route setting equipment, such as cleaning of holds
- 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:

- abseiling and climbing units which require route setting skills.

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.

Equipment may include:

- harness
- karabiners
- anchors
- nuts and bolts
- footwear
- chalk and chalk bag
- safety equipment
- ropes
- fasteners
- holds
- container for holds and bolts
- ascending and descending devices:
 - mechanical ascenders
 - non-mechanical ascenders
 - auto locking descenders
 - manually locking descenders
 - attachments.

Contextual issues may include:

- indoor/outdoor
- single/multi pitch
- personal abilities and experience
- safety requirements
- pitch height.

Organisational policies and procedures may include:

- occupational health and safety
- use and maintenance of equipment
- emergency and safety procedures.

Holds may include:

- commercially available resin handholds
- homemade wooden handholds
- edges
- slopes
- pockets
- pinches.

Route may include:

- sustained in difficulty
- possible with more than one specific sequence of moves.

Obstacles may include:

- quick draws
- hooks or pig tails
- holds on other routes
- wall features
- ropes
- other walls or structures.

Cleaning may include:

- high pressure hose
- manual scrubbing.

Safety procedures may include:

- wearing of helmets
- attaching to safety ropes
- communicating progress
- avoiding or removing hazards.

Marking may include:

- colour of hold
- coloured tape or tags.

Unit Sector(s)

Outdoor Recreation

Competency Field

Climbing artificial surfaces