

SISOCLA303A Establish belays for climbing on artificial surfaces

Release: 1



SISOCLA303A Establish belays for climbing on artificial surfaces

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit describes the performance outcomes, skills and knowledge required to independently select anchors for the attachment of ropes and equipment for belays, such as tapes and karabiners. These anchors are to be used to establish belay systems on single-pitched artificial climbing surfaces and must be able to accommodate different belayer and climber abilities.
	No licensing, regulatory or certification requirements apply to this unit at the time of endorsement.

Application of the Unit

Application of the unit	This unit applies to those required to establish belays for climbing activities. This may include those working as climbing guides or assistant guides in a range of controlled artificial conditions.
	This unit may also apply to outdoor recreation leaders working for outdoor education or adventure providers; volunteer groups; not-for-profit organisations or government agencies.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Prerequisite units		

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Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

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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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
Select suitable equipment for belay	1.1. Select a <i>belay system</i> according to <i>contextual issues</i> of the activity.
system.	1.2. Identify and select <i>equipment</i> according to <i>relevant legislation</i> and <i>organisational policies and procedures</i> .
	1.3. Select <i>anchors</i> that meet the requirements of the climb and abilities of the <i>participants</i> .
	1.4. Assess <i>condition of the anchors</i> , including performance under <i>likely load</i> .
	1.5. Choose a <i>belay device</i> that is suitable to the <i>artificial surface conditions</i> and belayers ability.
	1.6. Complete all necessary equipment <i>safety checks</i> , according to organisational policies and procedures.
2. Set up belay system.	2.1. Rig multiple anchors, ensuring equalisation and minimal shock loading.
	2.2. Tie <i>knots</i> and rig ropes suitable for the type of belay system established.
	2.3. Establish a belay from which the belayer is able to escape and safely perform a rescue.
	2.4. Avoid or remove belay <i>hazards</i> , to maintain <i>safety of belayer</i> .
	2.5. Determine the need for, and, if necessary establish, back up belay systems.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- problem-solving skills to select appropriate anchors and belay systems for the context and conditions of climbing activity
- rope handling and knot tying skills to rig ropes and anchors adequately and safely
- first aid and emergency response skills appropriate to the location to enable initial response to emergencies and personal health care.

Required knowledge

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REQUIRED SKILLS AND KNOWLEDGE

- relevant legislation and organisational policies and procedures to enable safe rigging of belays for top rope climbing on artificial surfaces
- equipment types, characteristics and technology used to establish belays for climbing on artificial surfaces
- care and maintenance of equipment to ensure prolonged life span and safety requirements, as advised by the manufacturer's specifications and recommendations for equipment use
- belay and anchor systems appropriate for single pitch artificial surfaces
- technical climbing and equipment knowledge to establish top and bottom belays
- types of knots, their advantages and disadvantages and their impact on roping activities
- emergency procedures, and knowledge of potential hazards and obstacles relevant to the location to ensure safety of self and others.

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Evidence Guide

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.

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: independently selects appropriate equipment and carries out safety checks to ensure effective working order differentiates between the different types of belay systems, anchors and knots and their suitability to different rigging situations determines the need for, and establishes, back up belay systems to ensure safety of self and other participants.
Context of and specific resources for assessment	Assessment must ensure participation in multiple rigging of equipment that is of sufficient breadth to demonstrate competence and consistency of performance. Assessment must ensure access to: resources and information regarding climbing and belaying equipment suitable artificial single pitch climbing sites with simple obstacles and features that allow participant to demonstrate belay rigging skills other climbing participants, to assist in belaying and or rigging equipment such as anchors, harnesses, belay devices, ropes, karabiners and first aid equipment.
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 or written questioning to assess knowledge of relevant legislation and organisational policies and procedures to ensure safe and appropriate use of all climbing equipment observation of safe participation and demonstration of equipment selection and setting up belay systems suitable to different contexts and participants observation of dealing with contingencies, such as

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EVIDENCE GUIDE	
	 equipment failure or misuse 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:
	• SISOCLA302A Demonstrate top rope climbing skills on artificial surfaces.
Guidance information for assessment	

Range Statement

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.

Belay system may include:	• top belay
	bottom belay.
Contextual issues may include:	weather conditions, including times
	• season
	• transport
	• location
	trip distance and duration
	group objectives
	• group size.
Equipment may include:	• ropes
	• tape slings
	• karabiners
	rope protectors
	belay devices.
Relevant legislation may include:	occupational health and safety
Tiere , and registration may meridie.	 permits or permission for access
	environmental regulations.

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RANGE STATEMENT	
Organisational policies and procedures may include:	occupational health and safety
	use and maintenance of equipment
•	emergency procedures
	code of ethics.
Anchors may include:	• bollards
Thereof may merade.	• bolts
	• chains
	• U bolts
	• beams
	• wire cables.
Participants may include:	• experienced
steepastes may merade.	inexperienced
	• adults
	• children
	• tourists, club members, clients, school or
	youth groups.
Condition of the anchors may	• age
include:	• location
	• wear
	• decay
	• corrosion
	 environmental stress
	insect damage.
Likely load may include:	• group size
	• set up
	type of climb conducted
	climber ability
	• technique
	• possible forces generated during a fall.
Belay device may include:	• plate devices
, , , , , , , , , , , , , , , , , , ,	auto-locking devices
	• tubular devices.
Artificial surface conditions may	portable or fixed walls
include:	fixed towers or bridges
	indoor or outdoor
	top- rope set up
	vertical climb
	• single pitch.
Safety checks may include:	A - anchors - secure and suitable to

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RANGE STATEMENT	
	 application B - buckles - locked as per manufacturers recommendations C- connector - locked, secured and orientated D - devices - threaded correctly and secured E- everything else including end or rope knots, friction hitches, belayer ready, helmet chin strap, clothing, jewellery and hair secured. F- friend - cross check.
Knots may include:	 knots that have at least 50% of the static strength of the original rope end-of-rope knots mid-rope knots rope joining knots tape knot.
Hazards may include:	 temperature extremes slippery or unstable terrain dangerous animals and insects group management hazards.
Safety of belayer may include:	 attachment to anchor or alternate safety system positioning out of direct line of equipment fall minimising movement of the belayer in the event of a fall enabling belayer to be anchored.

Unit Sector(s)

Unit sector	Outdoor Recreation
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Co-requisite units

Co-requisite units		

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Co-requisite units		

Competency field

Competency field	Climbing artificial surfaces
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