



Australian Government

Assessment Requirements for SISORSC003

Perform complex vertical rescues

Release: 1

Assessment Requirements for SISRSC003 Perform complex vertical rescues

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:

- establish systems for and complete the following simulated vertical rescues:
 - one rescue of a conscious person
 - two rescues of unconscious persons
 - two self rescues
- across the five rescues, collectively utilise the following equipment, techniques and methods:
 - select and tie at least four different types of knots suitable for the system type established, and appropriate for the intended load and function
 - mechanical advantage systems which include compound pulley systems with more than one moving pulley
 - rescue from above
 - rescue from below
 - raising rescuee
 - lowering rescuee
 - rescue with assisted haul from other team member(s)
 - single rope techniques including:
 - changeovers from descending to ascending
 - changeovers from ascending to descending
 - changeover to another system while suspended on a rope
 - bypassing knots
 - tandem descent
 - pluck off
 - rescue from a traverse
 - transfer load from one rope to another
- for each rescue operation
 - designate roles and responsibilities to team members and participants to effectively complete rescues
 - maintain effective communication with the rescuee
 - participate in a debrief and complete an incident report.

Knowledge Evidence

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

- organisational policies and procedures for emergency response
- roles and responsibilities that can be allocated to team members and participants to effectively complete a complex rope rescue
- key considerations for determining rescue methods and techniques for complex rescues:
 - site topography and access to person to be rescued
 - severity of site hazards
 - degree of urgency to avoid situation worsening
 - weather conditions
 - condition of person to be rescued
 - rescue abilities of self and team members
 - availability of equipment and human resources
- features, functions, advantages and disadvantages of different types of anchors:
 - fixed artificial
 - naturally occurring
 - artificial removable
- features, functions and operation of equipment used for complex rescues:
 - belay systems:
 - top rope top belay
 - top rope bottom belay
 - bottom brake belay
 - self-belay
 - static and live belays
 - descending devices:
 - assisted locking
 - inline
 - plate
 - figure 8
 - tubular
 - improvised
 - belay devices:
 - assisted locking
 - inline
 - plate
 - figure 8
 - tubular
 - improvised

- harnesses of different types
- carabiners
- maillon rapides
- static and dynamic rope and when each might be used
- tape
- sewn sling
- personal attachment systems, including cow's tails
- Prusik cords
- foot loops
- mechanical ascenders
- releasable hitches
- mechanical advantage systems to include:
 - simple pulley systems with one moving pulley
 - compound pulley systems with more than one moving pulley
- factors that affect the selection and rigging of above equipment for complex rescues
- manufacturers' specifications for equipment use
- techniques used to:
 - establish belay systems for complex rope rescues
 - close the system; advantages and disadvantages of doing so
- when different knots are used in rigging, advantages and disadvantages, and how to tie them:
 - fixed eye
 - mid line tied in the bight
 - end to end joining
 - termination
 - load control hitches
 - slide and grip hitches
- complex rope rescue techniques used to:
 - raise and lower conscious and unconscious persons on single and multi pitches
 - rescue with assisted haul from other team member(s)
 - use a single rope and execute:
 - changeovers from descending to ascending
 - changeovers from ascending to descending
 - changeover to another system while suspended on a rope
 - bypass knots
 - complete two person (tandem) descents
 - pluck off
 - rescue from a traverse
 - transfer loads from one rope to another
 - traverse diagonally or horizontally

- secure rescuee and escape from a loaded belay system
- typical hazards associated with complex rope rescues, and techniques used to safely negotiate.

Assessment Conditions

Skills must be demonstrated in an above or below ground environment which might include cliff faces, canyons or caves.

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

- first aid equipment
- communication equipment for emergency response.

Assessments can only be completed through simulated activities. Simulations must incorporate time critical requirements.

Assessment must ensure use of:

- people who act as team members, participants and rescuees with whom the individual interacts during simulated rescues
- personal protective equipment to include:
 - gloves, as required
 - abseiling or climbing helmets
 - harnesses
- anchors which can include:
 - fixed artificial
 - naturally occurring
 - artificial removable
- equipment used for complex rescues:
 - carabiners
 - maillon rapides
 - rope which can include static and or dynamic rope
 - tape or sewn sling
 - personal attachment systems, including cow's tails
 - Prusik cords
 - foot loops
 - mechanical ascenders
 - descending devices
 - belay devices
 - mechanical advantage systems
- template incident reports
- organisational policies and procedures for emergency response.

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 recreational activity leader, guide or instructor; or as a rescue operator 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.

Links

Companion Volume Implementation Guides -

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