NFPA 1006: 2021 Edition, Rope Rescue 5.1 Awareness Level

Below please find what has been previously approved by the Committee on Accreditation (COA) for this level of certification. This example does not take into consideration "Document Review", "Portfolio", or "Other testing methods."

If your agency selects completing their online Assessment Methodology Matrix (AMM) utilizing these test methods, our Technical Analysts may place your application under a COA meeting consent agenda bypassing the usual COA review.

The spaces identified below with an "X" must be replaced with the appropriate cognitive test item numbers (e.g. Questions 1,4,6,7,9, etc.) or the score sheet numbers under Product, Psychomotor/Process methods as score sheet numbers (e.g.- SS 101, 202, and 304, etc.).

| | Knowledge-Based | Assessments | Performance-Bas | sed Assessments |
|--|--|---|---|--|
| | (graded after su | lbmission) | (graded in real-time a | s they are performed) |
| | Cognitive | Product | Psychomotor | Process |
| Section | (e.g. Multiple Choice, Short Answer, Discretionary Time with Resources) | (e.g., document or develop a budget, proposal, lesson plan) | (Primarily an observable physical task. e.g., don, doff) | (Primarily a mental or verbalized task. e.g., inspect) |
| 5.1.1 As given res so that the commar commur | sist a team in operation of scue personnel, an estab he movement is controlle nds are followed in direct nicated, and managed. | of the haul line of a l lished rope rescue : ed; a reset is accom ion of the operation | rope mechanical advantag system, a load to be moved plished; the load can be he ; and potential problems a | e system raising operation, I, and an anchor system, eld in place when needed; re identified, |
| <u>5.1.1</u> | | | 2 | K |
| 5.1.1 (A) operatio | Requisite Knowledge. Pr n, personnel assignment | inciples of mechan s, and operational o | ical advantage, operation c commands. | f a haul line in a raising |
| <u>5.1.1(A)</u> | X | | | |
| 5.1.1 (B) during ra | Requisite Skills. The abil aising operations. | lity to recognize ope | rational commands and id | entify safety concerns |
| <u>5.1.1(B)</u> | | | 2 | ĸ |

5.1.2 Size up a rope rescue incident, given background information and applicable reference materials, so that the scope of the rescue is determined, the number of victims is identified, the last reported location of all the victims is established, witnesses and reporting parties are identified and interviewed, resource needs are assessed, primary search parameters are identified, and information required to develop an initial incident action plan is obtained.

| Б | 1 | 2 |
|----|-----|-----|
| С. | . I | . – |
| | | |

Х

Χ

5.1.2 (A) Requisite Knowledge. Types of reference materials and their uses, availability and capability of the resources, elements of an incident action plan and related information, relationship of the size-up to the incident management system, information gathering techniques and how that information is used in the size-up process, and basic search criteria for rope rescue incidents.

| <u>5.1.2(A)</u> | x | | |
|-----------------|----------------------------|----------------------|---|
| 5.1.2 (B) | Requisite Skills. The abil | ity to read technica | l rescue reference materials, gather information, use |

interview techniques, relay information, and use information-gathering sources.

<u>5.1.2(B)</u>

5.1.3 Recognize incident hazards and initiate isolation procedures, given scene control barriers, personal protective equipment (PPE), requisite equipment, and available specialized resources, so that all hazards are identified; resource application fits the operational requirements; hazard isolation is considered; risks to rescuers, bystanders, and victims are minimized; and rescue time constraints are taken into account.

| <u>5.1.</u> | 3 | | Х | |
|-------------|---|--|---|--|
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5.1.3 (A) Requisite Knowledge. Resource capabilities and limitations; types and nature of incident hazards; equipment types and their use; isolation terminology, methods, equipment, and implementation; operational requirement concerns; common types of rescuer and victim risks; risk/benefit analysis methods and practices; hazard recognition, isolation methods, and terminology; methods for controlling access to the scene; and types of technical references.

| <u>5.1.3(</u> / | ή Χ | |
|-----------------|------------|--|
| | | |

5.1.3 (B) Requisite Skills. The ability to identify resource capabilities and limitations, identify incident hazards, assess potential hazards to rescuers and bystanders, place scene control barriers, and operate control and mitigation equipment

5.1.3(B) X

5.1.4 Recognize the need for technical rescue resources at an operations- or technician-level incident, given AHJ guidelines, so that the need for additional resources is identified, the response system is

| initiated personn | , the scene is secured an el are incorporated into t | d rendered safe unt he operational plan | il additional resources arrive, and awareness-level |
|--|--|---|--|
| 5.1.4 | | | X |
| 5.1.4 (A) commoi | Requisite Knowledge. O n to the AHJ, hazards, inc | perational protocols ident support opera | s, specific planning forms, types of incidents itions and resources, and safety measures |
| <u>5.1.4(A)</u> | X | | |
| on the ty and resc | pes of incidents, identify purces, and determine th | r and evaluate varion e required safety me | us types of hazards within the AHJ, request support easures |
| <u>5.1.4(D)</u> | | | X |
| 5.1.5 Su action p commai action p | pport an operations- or to lan, and resources from t nd, environmental conce lan is supported | echnician-level inclo the tool kit, so that t rns are managed, po | dent, given an incident, an assignment, an incident he assignment is carried out, progress is reported to ersonnel rehabilitation is facilitated, and the incident |
| <u>5.1.5</u> | | | x |
| 5.1.5 (A) selectio | Requisite Knowledge. Al | HJ operational proto d use, and scene su | cols, hazard recognition, incident management, PPE oport requirements. |
| <u>5.1.5(A)</u> | X | | |
| 5.1.5 (B) manage to a sup | Requisite Skills.The abili ment system, follow and ervisor or incident comm | ty to apply operation implement an incid and. | nal protocols, function within an incident ent action plan, and report the task progress status |
| <u>5.1.5(B)</u> | | | X |

NFPA 1006: 2021 Edition, Rope Rescue 5.2 Operations Level

| | Knowledge-Ba | sed Assessments | Performance-Ba | ased Assessments |
|---|--|---|---|---|
| | (graded afte | er submission) | (graded in real-time a | as they are performed) |
| | Cognitive | Product | Psychomotor | Process |
| Section | (e.g. Multiple Choice, Short Answer, Discretionary Time with Resources) | (e.g., document or develop a budget, proposal, lesson plan) | (Primarily an observable physical task. e.g., don, doff) | (Primarily a mental or verbalized task. e.g., inspect) |
| 5.2.1 Per materials reported interview required | form size up of a reso , so that the type of re location of all victims ed, resource needs a to develop an inciden | cue incident, given back escue is determined, the is established, witnesse re assessed, search par t action plan is obtained | ground information and number of victims is ic and reporting parties ameters are identified, | applicable reference lentified, the last are identified and and information |
| 5.2.1 | | | | X |
| 5.2.1 (A) capability up to the information | Requisite Knowledge. of the resources, ele incident managemen on is used in the size- | Types of reference ma ments of an action plan t system, and informatic up process. | terials and their uses, a and related information on gathering techniques | vailability and n, relationship of size- s and how that |
| 5.2.1(A) | X | | | |
| 5.2.1 (B) relay info | Requisite Skills. The a rmation, and use info | ability to read technical r rmation gathering sourc | escue reference mater es. | ials, gather information, |
| 5.2.1(B) | | | 2 | X |
| 5.2.2 * M inspectio tools and of compo reported performe | laintain hazard-specif n procedures, cleanin resources as are ind onents during repair or or repaired, equipmer d and documented co | ic PPE, given clothing c g and sanitation supplie icated by the manufactu maintenance, so that d nt functions as designed onsistent with the manuf | or equipment for the pro es, maintenance logs or irer's guidelines for ass lamage, defects, and w l, and preventive mainte acturer's recommendat | tection of the rescuers, records, and such embly or disassembly ear are identified and enance has been ions. |
| 5.2.2 | | X | | X |
| 5.2.2 (A) systems control; u recomme | Requisite Knowledge. of the AHJ; requirements and provided assemendations; pre-use ins | Functions, construction ents and procedures for ably and disassembly to pection procedures; and | n, and operation of PPE cleaning, sanitizing, an ols; manufacturer and o d ways to determine op | ; use of record-keeping d infectious disease lepartment erational readiness. |
| 5.2.2(A) | Х | | | |
| 5.2.2 (B) operation reference | Requisite Skills. The a nal readiness of PPE; e materials; and selec | ability to identify wear ar complete logs and reco t and use tools specific | nd damage indicators fo rds; use cleaning equip to the task. | or PPE; evaluate ment, supplies, and |
| 5.2.2(B) | | X | 2 | X |

| 5.2.3 * M indicated and orga verified a reported are corre | Aaintain rescue equip by the manufacturer' nizational standard op nd documented, all c as indicated by stand | ment, given maintenanc s guidelines, inspection perating procedure, so t omponents are checked ard operating procedure | e logs and records, tools, and resources as procedures, equipment replacement protocol, nat the operational status of equipment is for operation, deficiencies are repaired or e, and items subject to replacement protocol |
|---|---|--|---|
| 5.2.3 | | X | X |
| 5.2.3 (A) systems, maintenai operating | Requisite Knowledge manufacturer and orgar nce tools, replacement procedures. | Functions and operations nizational care and mainte protocol and procedures, o | s of rescue equipment, use of record-keeping nance requirements, selection and use of disposal methods, and organizational standard |
| 5.2.3(A) | X | | |
| 5.2.3(B) H | Requisite Skills. | | |
| The abilit equipmen | y to identify wear and d t, complete logs and rec | amage indicators for rescu ords, and select and use m | e equipment, evaluate operation readiness of aintenance tools. |
| 5.2.3(B) | | X | X |
| 5.2.4 * E the agen | emonstrate knots, be cy, so that the knots a | nds, and hitches, given are dressed, recognizab | ropes, webbing, and a list of knots used by le, and backed up as required. |
| 5.2.4 | | | X |
| 5.2.4 (A) terminolo | Requisite Knowledge | Knot efficiency, knot ut | ilization, rope construction, and rope |
| 5.2.4(A) | X | | |
| 5.2.4 (B) | Requisite Skills. The a | ability to tie representati | ve knots, bends, or hitches for the following |
| 1. (1) End | d-of-line loop | | |
| 2 (2 |) Midline loop | | |
| 3. (3 |) Securing rope around | desired objects | |
| 4. (4 |) Joining rope or webbin | ng ends together | |
| 5. (5 |) Gripping rope | | |
| 5.2.4(B) | | | X |
| 5.2.5 Col equipme expected need for and load througho | nstruct a single-point ant, so that the chosen I load, and does not ir redundant anchor poi ed prior to being place ut the operation. | anchor system, given life anchor system fits the i nterfere with rescue ope nts is assessed and use ed into service, and the | e safety rope and other auxiliary rope rescue ncident needs, meets or exceeds the rations, an efficient anchor point is chosen, the ed as required, the anchor system is inspected integrity of the system is maintained |
| 5.2.5 | | | X |

5.2.5 (A) Requisite Knowledge. Application of knots, rigging principles, anchor selection criteria, system safety check procedures, rope construction, and rope rescue equipment applications and limitations.

5.2.5(A)

5.2.5 (B) Requisite Skills. The ability to select rope and equipment; tie knots; rig systems; evaluate anchor points for required strength, location, and surface contour; and perform a system safety check.

5.2.5(B)

X

5.2.6 Construct a multiple-point anchor system, given life safety rope and other auxiliary rope rescue equipment, so that the chosen anchor system fits the incident needs, the system strength meets or exceeds the expected load and does not interfere with rescue operations, equipment is visually inspected prior to being put in service, the most appropriate anchor points are chosen, the anchor system is system safety checked prior to being placed into service, the integrity of the system is maintained throughout the operation, and the force will be distributed — proportionally or disproportionally — between more than one anchor point.

| A |
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5.2.6(A) * Requisite Knowledge.

X

Relationship of angles to forces created in the rigging of multiple-point anchor systems, safety issues in choosing anchor points, system safety check methods that allow for visual and physical assessment of system components, methods to evaluate the system during operations, integrity concerns, weight distribution issues and methods, knots and applications, selection and inspection criteria for hardware and software, formulas needed to calculate safety factors for load distribution, and the concepts of static loads versus dynamic loads.

5.2.6(A) X 5.2.6 (B) Requisite Skills. The ability to determine incident needs as related to choosing anchor systems, select effective knots, determine expected loads, evaluate incident operations as related to interference concerns and setup, choose anchor points, perform a system safety check, and evaluate system components for compromised integrity.

| 5.2.6(B) X |
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5.2.7 Conduct a system safety check, given a rope rescue system and rescue personnel, so that a physical/visual check of the system is made to ensure proper rigging, a load test is performed prior to life-loading the system, and verbal confirmation of these actions is announced and acknowledged before life-loading the rope rescue system.

| 5.2.7 | | | X |
|-----------------------------------|--|---|---|
| 5.2.7 (A) rescue sy equipme | Requisite Knowledge ystems and their indiv nt damage, principles | System safety check p idual components, use o of rigging, and equipme | rocedures, construction and operation of rope of PPE, equipment inspection criteria, signs of ent replacement criteria. |
| 5.2.7(A) | X | | |
| 5.2.7 (B) | Requisite Skills. The a | ability to apply and use I | PPE, inspect rope rescue system components |

5.2.7 (B) Requisite Skills. The ability to apply and use PPE, inspect rope rescue system components for damage, assess a rope rescue system for configuration, secure equipment components, inspect all rigging, and perform a system safety check.

| 5.2.7(B) | | Χ |
|---|---|--|
| 5.2.8 Pla edge pro from abra protection | ce edge protection, gi tection, and other aux asion or cutting, the re n is secure, and the re | iven life safety rope or webbing traversing a sharp or abrasive edge, ciliary rope rescue equipment, so that the rope or webbing is protected escuer is safe from falling while placing the edge protection, the edge ope or webbing is securely placed on the edge protection. |
| 5.2.8 | | X |
| 5.2.8 (A) from sha edges, ai | Requisite Knowledge rp or abrasive edges, nd methods for negot | Materials and devices that can be used to protect ropes or webbing fall protection measures, dangers associated with sharp or abrasive ation of sharp or abrasive edges. |
| 5.2.8(A) | X | |
| 5.2.8 (B) personne webbing | Requisite Skills. The a el from falls while work in a specific location. | ability to select protective devices for rope and webbing, protect king near edges, secure edge protection, and secure ropes or |
| 5.2.8(B) | | X |
| 5.2.9 * C given life capable c actuated belay ope suitable t | Construct a system inte safety rope, anchor s of arresting a fall, a fa , actuation of the syste erator is not rigged int to the site and is conn | ended to provide belay within a single- or two-tensioned rope system, systems, PPE, and rope rescue equipment, so that the system is Il will not result in system failure, the system is not loaded unless em will not injure or otherwise incapacitate the belay operator, the to the equipment components of the system, and the system is ected to an anchor system and the load. |
| 529 | | V |
| 5.2.9 | | Λ |
| 5.2.9 (A) devices u procedur | Requisite Knowledge used to provide belay, es. | Principles of belay systems, capabilities and limitations of various application of knots, rigging principles, and system safety check |
| 5.2.9 (A) devices u procedur 5.2.9(A) | Requisite Knowledge used to provide belay, es. X | Principles of belay systems, capabilities and limitations of various application of knots, rigging principles, and system safety check |
| 5.2.9 (A) I devices u procedur 5.2.9(A) 5.2.9 (B) system a | Requisite Knowledge used to provide belay, es. X Requisite Skills. The a nd load, don and use | Principles of belay systems, capabilities and limitations of various application of knots, rigging principles, and system safety check ability to select a system, tie knots, perform rigging, attach to anchor hazard-specific PPE, and perform a system safety check. |
| 5.2.9 (A) I devices u procedur 5.2.9(A) 5.2.9 (B) I system a 5.2.9(B) | Requisite Knowledge used to provide belay, es. X Requisite Skills. The a nd load, don and use | A Principles of belay systems, capabilities and limitations of various application of knots, rigging principles, and system safety check ability to select a system, tie knots, perform rigging, attach to anchor hazard-specific PPE, and perform a system safety check. X |
| 5.2.9 (A) I devices u procedur 5.2.9 (A) 5.2.9 (A) 5.2.9 (B) 5.2.9 (B) 5.2.10 Op during a system, a fall factor belay sys attentive operator | Requisite Knowledge used to provide belay, es. X Requisite Skills. The a nd load, don and use perate a system inten lowering or raising op a specified minimum t is minimized, the bel stem is prepared for a at all times during the moves rope through t | A Principles of belay systems, capabilities and limitations of various application of knots, rigging principles, and system safety check ability to select a system, tie knots, perform rigging, attach to anchor hazard-specific PPE, and perform a system safety check. ded to provide belay within a single- or two-tensioned rope system eration, given an operating lowering or raising mechanical advantage ravel distance for the load, a system, and a load, so that the potential ay is not actuated during normal lowering and raising operations, the ctuation at all times during the operation, the belay operator is e operation, the load's position is continually monitored, and the belay he belay device as designed. |
| 5.2.9 (A) I devices u procedur 5.2.9 (A) 5.2.9 (A) 5.2.9 (B) 5.2.9 (B) 5.2.10 O during a system, a fall factor belay sys attentive operator 5.2.10 | Requisite Knowledge. used to provide belay, es. X Requisite Skills. The a nd load, don and use perate a system inten lowering or raising op a specified minimum t is minimized, the bel stem is prepared for a at all times during the moves rope through t | A Principles of belay systems, capabilities and limitations of various application of knots, rigging principles, and system safety check ability to select a system, tie knots, perform rigging, attach to anchor hazard-specific PPE, and perform a system safety check. ded to provide belay within a single- or two-tensioned rope system eration, given an operating lowering or raising mechanical advantage ravel distance for the load, a system, and a load, so that the potential ay is not actuated during normal lowering and raising operations, the ctuation at all times during the operation, the belay operator is experiment. X X X |
| 5.2.9 (A) I devices u procedur 5.2.9 (A) 5.2.9 (A) 5.2.9 (B) 5.2.9 (B) 5.2.10 O during a system, a fall factor belay sys attentive operator 5.2.10 (A) in coniun | Requisite Knowledge. used to provide belay, es. X Requisite Skills. The a nd load, don and use perate a system inten lowering or raising op a specified minimum t is minimized, the bel stem is prepared for a at all times during the moves rope through t | Principles of belay systems, capabilities and limitations of various application of knots, rigging principles, and system safety check ability to select a system, tie knots, perform rigging, attach to anchor hazard-specific PPE, and perform a system safety check. X ded to provide belay within a single- or two-tensioned rope system eration, given an operating lowering or raising mechanical advantage ravel distance for the load, a system, and a load, so that the potential ay is not actuated during normal lowering and raising operations, the ctuation at all times during the operation, the belay operator is e operation, the load's position is continually monitored, and the belay he belay device as designed. 2. Application and use of belay devices, proper operation of systems ering and raising operations, and operational commands. |
| 5.2.9 (A) I devices u procedur 5.2.9 (A) 5.2.9 (A) 5.2.9 (B) I system a 5.2.9 (B) 5.2.10 O during a system, a fall factor belay sys attentive operator 5.2.10 (A) in conjun 5.2.10 (A) | Requisite Knowledge used to provide belay, es. X Requisite Skills. The a nd load, don and use perate a system inten lowering or raising op a specified minimum t is minimized, the bel stem is prepared for a at all times during the moves rope through t Requisite Knowledge ction with normal lowe | A Principles of belay systems, capabilities and limitations of various application of knots, rigging principles, and system safety check ability to select a system, tie knots, perform rigging, attach to anchor hazard-specific PPE, and perform a system safety check. ability to provide belay within a single- or two-tensioned rope system eration, given an operating lowering or raising mechanical advantage ravel distance for the load, a system, and a load, so that the potential ay is not actuated during normal lowering and raising operations, the ctuation at all times during the operation, the belay operator is e operation, the load's position is continually monitored, and the belay he belay device as designed. X e. Application and use of belay devices, proper operation of systems ering and raising operations, and operational commands. |

| 5.2.10 (B) system e perform a |) Requisite Skills. The ffectiveness, properly a system safety check | ability to tend a belay d attach a rope to a belay , and manage and com | evice as designed, tie approved knots, assess / device, don and use hazard-specific PPE, municate belay system status effectively. |
|---|--|---|---|
| 5.2.10(B) | | | X |
| 5.2.11 * dropped when the the belay otherwise | Belay a falling load in load, so that the belay e load falls, the fall is a / operator utilizes the e incapacitated during | a high-angle environme y line is not taut until the arrested in a manner tha belay device as designe actuation of the belay s | ent, given a belay and a failed line creating a load is falling, the belay device is actuated t minimizes the force transmitted to the load, ed, and the belay operator is not injured or system. |
| 5.2.11 | | | Χ |
| 5.2.11 (A) of belay |) Requisite Knowledge devices to arrest falls, | e. Application and use o use of PPE, and operat | f belay devices, effective emergency operation ting procedures. |
| 5.2.11(A) | X | | |
| 5.2.11 (B) use haza actuation |) Requisite Skills. The ard-specific PPE, reco n. | ability to operate a bela gnize and arrest a falling | y system as designed, tie approved knots, g load, and communicate belay system |
| 5.2.11(B) | | | X |
| 5.2.12 C equipme to an and incident i | Construct a fixed rope nt, so that the system chor system and the lo requirements for desc | system, given an ancho constructed can accom oad, and a system safety ending or ascending op | r system, a life safety rope, and rope rescue modate the load, is efficient, and is connected y check is performed and the results meet the erations. |
| 5.2.12 | | | X |
| 5.2.12 (A) operation procedur |) Requisite Knowledge ns as related to interfe res, and methods of e | e. Knot selection, calcula erence concerns and set valuating system compo | ating expected loads, incident evaluation up, rigging principles, system safety check ments for compromised integrity. |
| 5.2.12(A) | X | | |
| 5.2.12 (B) principles system s |) Requisite Skills. The s, evaluate incident op afety check, and eval | ability to select effective perations as related to in uate system component | e knots, calculate expected loads, use rigging iterference concerns and setup, perform a s for compromised integrity. |
| 5.2.12(B) | | | X |
| 5.2.13 C device, a efficient, minimal (| Construct a lowering sy and auxiliary rope resc is capable of controlli effort over the require | ystem, given an anchor cue equipment, so that th ng the descent, is capat d distance, and is conne | system, life safety rope(s), descent control ne system can accommodate the load, is ble of holding the load in place or lowering with ected to an anchor system and the load. |
| 5.2.13 | | | X |
| 5.2.13 (A) capabiliti system s |) Requisite Knowledge es and limitations of v afety check procedure | e. Capabilities and limita various lowering systems es. | tions of various descent control devices, s, application of knots, rigging principles, and |
| 5.2.13(A) | X | | |

| 5.2.13 (B anchor s |) Requisite Skills. The ystem, and load; and | ability to tie knots; perfo perform a system safety | orm rigging; attach to descent control device, / check. |
|---|--|--|--|
| 5.2.13(B) | | | X |
| 5.2.14 * establish moved, s methods operation | Direct a lowering ope ned lowering system, a so that the movement do not stress the syst n, and potential proble | ration in a high-angle er a specified minimum trav is controlled, the load ca tem to the point of failur ems are identified, comm | nvironment, given rescue personnel, an vel distance for the load, and a load to be an be held in place when needed, operating e, rope commands are used to direct the nunicated, and managed. |
| 5.2.14 | | | Χ |
| 5.2.14 (A limitation a high-ar |) Requisite Knowledge is of various lowering ngle environment, per | e. Application and use o systems in a high-angle sonnel assignments, an | f descent control devices, capabilities and environment, operation of lowering systems in d operational commands. |
| 5.2.14(A) | X | | |
| 5.2.14 (B system e concerns |) Requisite Skills. The efficiency, manage mo s in a high-angle envir | ability to direct personn vement of the load in a onment, and perform a | el, use operational commands, analyze high-angle environment, identify safety system safety check. |
| 5.2.14(B) | | | Χ |
| 5.2.15 C pulleys, i | Construct a simple rop rope grab devices, and odate the load, is effic | e mechanical advantage d auxiliary rope rescue e cient, and is connected t | e system, given life safety rope, carabiners, equipment, so that the system constructed can |
| accontin | | ioni, and io connocted t | o an anchor system and the load. |
| 5.2.15 | | | X |
| 5.2.15 5.2.15 (A various s system s |) Requisite Knowledge simple rope mechanica safety check procedure | e. Principles of mechani al advantage systems, a es. | X cal advantage, capabilities and limitations of pplication of knots, rigging principles, and |
| 5.2.15 5.2.15 (A various s system s 5.2.15(A) |) Requisite Knowledge simple rope mechanica safety check procedure X | e. Principles of mechani al advantage systems, a es. | X cal advantage, capabilities and limitations of application of knots, rigging principles, and |
| 5.2.15 5.2.15 (A various s system s 5.2.15(A) 5.2.15 (B systems, system s |) Requisite Knowledge simple rope mechanica safety check procedure X) Requisite Skills. The , attach the mechanica safety check. | e. Principles of mechani al advantage systems, a es. ability to select rope an al advantage system to t | X cal advantage, capabilities and limitations of application of knots, rigging principles, and d equipment, tie knots, choose and rig the anchor system and load, and perform a |
| 5.2.15 (A various s system s 5.2.15 (A) 5.2.15 (A) 5.2.15 (B) system s 5.2.15 (B) |) Requisite Knowledge simple rope mechanica safety check procedure X) Requisite Skills. The , attach the mechanica safety check. | e. Principles of mechani al advantage systems, a es. ability to select rope an al advantage system to t | X cal advantage, capabilities and limitations of application of knots, rigging principles, and d equipment, tie knots, choose and rig the anchor system and load, and perform a X |
| 5.2.15 (A various s system s 5.2.15 (A) 5.2.15 (A) 5.2.15 (B) 5.2.15 (B) 5.2.16 * angle rai simple ro to be mo the load of failure commun |) Requisite Knowledge simple rope mechanica safety check procedure X) Requisite Skills. The , attach the mechanica safety check. Direct a team in the of sing operation, given ope mechanical advant oved, and an anchor sy can be held in place v , commands are used icated, and managed. | e. Principles of mechani al advantage systems, a es. ability to select rope an al advantage system to the peration of a simple rop rescue personnel, an es itage system, a specified ystem, so that the move when needed, operating to direct the operation, | X cal advantage, capabilities and limitations of application of knots, rigging principles, and d equipment, tie knots, choose and rig the anchor system and load, and perform a X e mechanical advantage system in a high-stablished rope rescue system incorporating a d minimum travel distance for the load, a load ment is controlled, a reset is accomplished, methods do not stress the system to the point and potential problems are identified, |
| 5.2.15 (A) various s system s 5.2.15 (A) 5.2.15 (A) 5.2.15 (B) systems, system s 5.2.15 (B) 5.2.16 * angle rai simple ro to be mo the load of failure commun 5.2.16 |) Requisite Knowledge simple rope mechanica safety check procedure X) Requisite Skills. The , attach the mechanica safety check. Direct a team in the of sing operation, given ope mechanical advan oved, and an anchor sy can be held in place v , commands are used icated, and managed. | e. Principles of mechani al advantage systems, a es. ability to select rope an al advantage system to f operation of a simple rop rescue personnel, an es itage system, a specified ystem, so that the move when needed, operating to direct the operation, | X cal advantage, capabilities and limitations of application of knots, rigging principles, and d equipment, tie knots, choose and rig the anchor system and load, and perform a X e mechanical advantage system in a high-stablished rope rescue system incorporating a d minimum travel distance for the load, a load ment is controlled, a reset is accomplished, methods do not stress the system to the point and potential problems are identified, X |

| 5.2.16(A) X | |
|---|---|
| 5.2.16 (B) Requisite Skills. The ability to direct analyze system efficiency, identify safety con- | personnel effectively, use operational commands, cerns, and perform a system safety check. |
| 5.2.16(B) | X |
| 5.2.17 Construct a compound rope mechanic life safety rope, carabiners, pulleys, rope grad system constructed accommodates the load a operational interference is factored and minim completed, and the system is connected to an | al advantage system, given a load, an anchor system, o devices, and rope rescue equipment, so that the and reduces the force required to lift the load, nized, the system is efficient, a system safety check is n anchor system and the load. |
| 5.2.17 | Χ |
| 5.2.17 (A) Requisite Knowledge. Determination rope systems, the elements of efficient design for reducing excessive force to system compo- interference concerns and setups, rope commo- procedures, and methods of evaluating system | n of incident needs as related to choosing compound n for compound rope systems, knot selection, methods onents, evaluation of incident operations as related to nands, rigging principles, system safety check m components for compromised integrity. |
| 5.2.17(A) X | |
| 5.2.17 (B) Requisite Skills. The ability to deter rope systems, select effective knots, calculate related to interference concerns and setups, p components for compromised integrity. | mine incident needs as related to choosing compound e expected loads, evaluate incident operations as perform a system safety check, and evaluate system |
| 5.2.17(B) | X |
| 5.2.18 * Direct the operation of a compound environment, given a rope rescue system incosystem and a load to be moved, and a specific system safety check is performed; a reset is a can be held in place when needed; operating failure; operational commands are clearly concommunicated, and managed. | rope mechanical advantage system in a high-angle orporating a compound rope mechanical advantage ed minimum travel distance for the load, so that a accomplished, and the movement is controlled; the load methods do not stress the system to the point of nmunicated; and potential problems are identified, |
| 5.2.18 | X |
| 5.2.18 (A) Requisite Knowledge. Methods to d concerns, rope commands, system safety che system components for compromised integrit common commands, methods for controlling operations, and management methods for con | etermine incident needs, types of interference eck protocol, procedures for continued evaluation of y, common personnel assignments and duties, a load's movement, system stress issues during mmon problems. |
| 5.2.18(A) X | |
| 5.2.18 (B) Requisite Skills. The ability to deter related to interference concerns, complete a statement of the statement of | mine incident needs, evaluate incident operations as system safety check, continually evaluate system |
| components for compromised integrity, direct analyze system efficiency, manage load move | personnel effectively, communicate commands, ement, and identify concerns. |

| 5.2.19 N raising op life safety necessar the rope risks to th | legotiate an edge whi peration, given a rope / harnesses, an edge ry for the environment rescue system is secu ne rescuer or equipme | le attached to a rope res rescue system, a speci to negotiate during the l , so that risk to the rescu ure; and all projections a ent. | cue system during a high-angle lowering and fied minimum travel distance for the rescuer, ower and raise, and specialized equipment uer is minimized; the means of attachment to and edges are negotiated while minimizing |
|---|--|--|---|
| 5.2.19 | | | Χ |
| 5.2.19 (A) edges alo mechanio | Requisite Knowledge ong the travel path wh cal advantage system | e. Techniques and pract nile suspended from ope s and common hazards | ices for negotiating existing projections and rating rope-based lowering and raising imposed by those projections and edges |
| 5.2.19(A) | X | | |
| 5.2.19 (B) environm projectior | Requisite Skills. The nents, attach the life sa ns and an edge along | ability to select and use afety harness to the rope the travel path, and eva | e rescuer harness and PPE for common e rescue system, maneuver across existing luate surroundings for potential hazards. |
| 5.2.19(B) | | | X |
| 5.2.20 P simulated illnesses history of | repare for transfer of d EMS agency, so tha are managed, and vio f the rescue activity ar | victims, given diagnostic t rescuers and victims a ctims are delivered to the nd victim conditions. | c and packaging equipment and an actual or re protected from hazards, victim injuries or e EMS provider with information regarding the |
| 5.2.20 | | X | Χ |
| 5.2.20 (A) | Requisite Knowledge | e. Victim and scene ass | essment methods: victim treatment |
| methods. | zation, and packaging | methods; and medical i | nformation management and communication |
| methods. | zation, and packaging X | methods; and medical i | nformation management and communication |
| methods. 5.2.20(A) 5.2.20 (B) appropria | X Requisite Skills.The to the situation and | methods; and medical i ability to use victim imm d provide victim transfer | nformation management and communication obilization, packaging, and treatment methods reports, both verbally and in written format. |
| immobiliz methods. 5.2.20(A) 5.2.20 (B) appropria 5.2.20(B) | X Requisite Skills.The to the situation and | methods; and medical i ability to use victim imm d provide victim transfer X | nformation management and communication obilization, packaging, and treatment methods reports, both verbally and in written format. |
| immobiliz methods. 5.2.20(A) 5.2.20 (B) appropria 5.2.20(B) 5.2.21 D personne minimum is attache used to n operating direct the | X Requisite Skills.The ate to the situation and pirect a litter-lowering a el, litter tender(s), an e travel distance for the ed to the lowering/rais nanage the litter during methods do not stread operation; and poter | methods; and medical i ability to use victim imm d provide victim transfer X and litter-raising operation established lowering/medic e load and a victim pack sing and belay systems, ing the lower and raise, the ss the system to the point atial problems are identif | nformation management and communication obilization, packaging, and treatment methods reports, both verbally and in written format. X on in a low-angle environment, given rescue chanical advantage system, a specified taged in a litter to be moved, so that the litter movement is controlled; litter tender(s) are he litter can be held in place when needed; ht of failure; rope commands are used to ied, communicated, and managed. |
| immobiliz methods. 5.2.20(A) 5.2.20 (B) appropria 5.2.20(B) 5.2.21 D personne minimum is attache used to n operating direct the 5.2.21 | X Requisite Skills. The ate to the situation and birect a litter-lowering a el, litter tender(s), an el travel distance for the travel distance for the d to the lowering/rais nanage the litter durin g methods do not stress operation; and poter | methods; and medical i ability to use victim imm d provide victim transfer X and litter-raising operation established lowering/med e load and a victim pack sing and belay systems, og the lower and raise, th ss the system to the poin atial problems are identif | obilization, packaging, and treatment methods reports, both verbally and in written format. X on in a low-angle environment, given rescue chanical advantage system, a specified taged in a litter to be moved, so that the litter movement is controlled; litter tender(s) are he litter can be held in place when needed; ht of failure; rope commands are used to ied, communicated, and managed. X |
| immobilize methods. 5.2.20(A) 5.2.20 (B) appropria 5.2.20(B) 5.2.21 D personne minimum is attache used to n operating direct the 5.2.21 5.2.21 (A) in the low advantag angle env personne | X Requisite Skills. The ate to the situation and packaging irrect a litter-lowering ate to the situation and itravel distance for the travel distance for the lowering/rais nanage the litter during methods do not stress operation; and poter Requisite Knowledge vangle environment, ge systems in a low-are vironment, managements, and o | methods; and medical i ability to use victim imm d provide victim transfer X and litter-raising operation established lowering/medi- established lowering/medi- established lowering/medi- established lowering/medi- stablished lowering/medi- established lowering/medi- stablished lowering/medi- stablished lowering/medi- stablished lowering/medi- established lowering/medi- stablished lowering/medi- stablished lowering/medi- established lowering/medi- stablished lowering/medi- established lowering/medi- and belay systems, ing the lower and raise, the stablished lowering/medi- established lowering/medi- established lowering/medi- established lowering/medi- established lowering/medi- established lowering/medi- established lowering/medi- established lowering/medi- established lowering/medi- stablished lowering/medi- astablished lowering/medi- stablished lowering/medi- s | obilization, packaging, and treatment methods reports, both verbally and in written format. X on in a low-angle environment, given rescue chanical advantage system, a specified taged in a litter to be moved, so that the litter movement is controlled; litter tender(s) are he litter can be held in place when needed; ht of failure; rope commands are used to ied, communicated, and managed. X f lowering and mechanical advantage system ns of various lowering and mechanical ender functions and limitations in the low- gle environment during raises and lowers, |

| system efficiency, manage movement of the litter in a concerns in a low-angle litter operation, and perform a | nel, use operational commands, analyze high-angle environment, identify safety a system safety check. |
|---|--|
| 5.2.21(B) | X |
| 5.2.22 * Operate as a litter tender in a low-angle lower system, a specified minimum travel distance for the line and specialized equipment necessary for the environment minimized; the means of attachment to the rope rescursed while minimizing risks to equipment or per | ering or raising operation, given a rope rescue ter tender, life safety harnesses, litters, bridles, nent, so that risks to victims and rescuers are le system is secure; and the terrain is sons. |
| 5.2.22 | X |
| 5.2.22 (A) Requisite Knowledge. Task-specific selection selection criteria, variations in litter design and intend principles, techniques and practices for low-angle environment. | on criteria for life safety harnesses, PPE ed purpose, low-angle litter attachment ironments, and common hazards imposed by |
| 5.2.22(A) X | |
| 5.2.22 (B) Requisite Skills. The ability to select and us environments, attach the life safety harness to the rop manage the litter while suspended from the rope resc potential hazards. | e rescuer harness and PPE for common be rescue system, maneuver across the terrain, ue system, and evaluate surroundings for |
| 5.2.22(B) | X |
| 5.2.23 * Direct a litter-lowering or litter-raising operation | on in a high-angle environment given rescue |
| personnel, an established lowering/mechanical advar distance for the load, a victim packaged in a litter to b and projections along the travel path, so that the litter systems, an edge is negotiated during a lower and ra during the lower and raise; the litter can be held in pla stress the system to the point of failure; rope commar potential problems are identified, communicated, and | tage system, a specified minimum travel e moved, and a means for negotiating edges is attached to the lowering/raising and belay se; tag lines are used to manage the litter ice when needed; operating methods do not ids are used to direct the operation; and managed. |
| personnel, an established lowering/mechanical advar distance for the load, a victim packaged in a litter to b and projections along the travel path, so that the litter systems, an edge is negotiated during a lower and ra during the lower and raise; the litter can be held in pla stress the system to the point of failure; rope commar potential problems are identified, communicated, and 5.2.23 | tage system, a specified minimum travel e moved, and a means for negotiating edges is attached to the lowering/raising and belay se; tag lines are used to manage the litter ice when needed; operating methods do not ids are used to direct the operation; and managed. |
| personnel, an established lowering/mechanical advar distance for the load, a victim packaged in a litter to b and projections along the travel path, so that the litter systems, an edge is negotiated during a lower and ra during the lower and raise; the litter can be held in pla stress the system to the point of failure; rope commar potential problems are identified, communicated, and 5.2.23 (A) Requisite Knowledge. Application and use o in the high-angle environment, capabilities and limitat advantage systems in a high-angle environment, use during high-angle lowers and raises, personnel assign | tage system, a specified minimum travel e moved, and a means for negotiating edges is attached to the lowering/raising and belay se; tag lines are used to manage the litter ice when needed; operating methods do not ids are used to direct the operation; and managed. X of lowering and mechanical advantage system ions of various lowering and mechanical of tag lines for management of litter position iments, and operational commands. |
| personnel, an established lowering/mechanical advar distance for the load, a victim packaged in a litter to b and projections along the travel path, so that the litter systems, an edge is negotiated during a lower and ra during the lower and raise; the litter can be held in pla stress the system to the point of failure; rope commar potential problems are identified, communicated, and 5.2.23 5.2.23 (A) Requisite Knowledge. Application and use of in the high-angle environment, capabilities and limitat advantage systems in a high-angle environment, use during high-angle lowers and raises, personnel assign 5.2.23 (A) X | tage system, a specified minimum travel e moved, and a means for negotiating edges is attached to the lowering/raising and belay se; tag lines are used to manage the litter ice when needed; operating methods do not ids are used to direct the operation; and managed. X of lowering and mechanical advantage system ions of various lowering and mechanical of tag lines for management of litter position iments, and operational commands. |
| personnel, an established lowering/mechanical advar distance for the load, a victim packaged in a litter to b and projections along the travel path, so that the litter systems, an edge is negotiated during a lower and ra during the lower and raise; the litter can be held in pla stress the system to the point of failure; rope comman potential problems are identified, communicated, and 5.2.23 (A) Requisite Knowledge. Application and use of in the high-angle environment, capabilities and limitat advantage systems in a high-angle environment, use during high-angle lowers and raises, personnel assign 5.2.23 (B) Requisite Skills. The ability to direct person system efficiency, manage movement of the litter in a concerns in a high-angle environment, and perform a | tage system, a specified minimum travel e moved, and a means for negotiating edges is attached to the lowering/raising and belay se; tag lines are used to manage the litter ice when needed; operating methods do not ids are used to direct the operation; and managed. X of lowering and mechanical advantage system ions of various lowering and mechanical of tag lines for management of litter position iments, and operational commands. nel, use operational commands, analyze high-angle environment, identify safety system safety check. |
| personnel, an established lowering/mechanical advar distance for the load, a victim packaged in a litter to b and projections along the travel path, so that the litter systems, an edge is negotiated during a lower and ra during the lower and raise; the litter can be held in pla stress the system to the point of failure; rope commar potential problems are identified, communicated, and 5.2.23 5.2.23 (A) Requisite Knowledge. Application and use of in the high-angle environment, capabilities and limitat advantage systems in a high-angle environment, use during high-angle lowers and raises, personnel assign 5.2.23 (B) Requisite Skills. The ability to direct person system efficiency, manage movement of the litter in a concerns in a high-angle environment, and perform a 5.2.23 (B) | tage system, a specified minimum travel e moved, and a means for negotiating edges is attached to the lowering/raising and belay se; tag lines are used to manage the litter ice when needed; operating methods do not ids are used to direct the operation; and managed. X of lowering and mechanical advantage system ions of various lowering and mechanical of tag lines for management of litter position ments, and operational commands. nel, use operational commands, analyze high-angle environment, identify safety system safety check. X |

| 5.2.24 | X | X | | |
|---|---|---|--|--|
| 5.2.24 (A) Requisite Knowledge. Incident Command functions and resources, hazard identification and risk management strategies, logistics and resource management, personnel accountability systems, and AHJ-specific procedures or protocols related to personnel rehab. | | | | |
| 5.2.24(A) X | | | | |
| 5.2.24 (B) Requisite Skills. Hazard recognition, risk analysis, use of site control equipment and nethods, use of data collection and management systems, and use of asset and personnel tracking systems. | | | | |
| 5.2.24(B) | X | X | | |

NFPA 1006: 2021 Edition, Rope Rescue 5.3 Technician Level

| | Knowledge-Ba | sed Assessments | Performance- | Based Assessments | |
|----------|--|---|--|--|--|
| | (graded afte | r submission) | (graded in real-time | e as they are performed) | |
| | Cognitive | Product | Psychomotor | Process | |
| Section | (e.g. Multiple Choice, Short Answer, Discretionary Time with Resources) | (e.g., document or develop a budget, proposal, lesson plan) | (Primarily an observable physical task. e.g., don, doff) | (Primarily a mental or verbalized task. e.g., inspect) | |
| 5.3.1 Di | 5.3.1 Direct a team in the operation of a rope rescue system to remove a victim stranded on or | | | | |

5.3.1 Direct a team in the operation of a rope rescue system to remove a victim stranded on or clinging to a natural or manmade feature in a high-angle environment, given a victim stranded on or clinging to a feature and a means of removal of the victim to the ground or other safe area, so that risks to victims and rescuers are minimized, injury to the victim is minimized, the means of attachment to the rope rescue system is maintained, the victim is removed and brought to a safe area for transfer to EMS.

5.3.1

5.3.1 (A) Requisite Knowledge. Techniques and systems for safe transfer of stranded victims from a natural or man feature, various techniques for handling stranded victims without inducing a fall.

X

X

5.3.1(A)

X

X

5.3.1 (B) Requisite Skills. Select and construct systems for rapid removal of stranded victims from natural or manmade features, manage operation of the selected system, determine condition of the stranded victim, reduce hazards for rescuers and victims, and determine specialized equipment needs for victim movement.

| <u>5.3.1(B)</u> | | | X |
|-----------------|--|--|---|
|-----------------|--|--|---|

5.3.2 Direct a team in the operation of a rope rescue system to remove a victim suspended from rope or webbing in a high-angle environment, given a victim suspended by a harness attached to anchored rope or webbing, systems for removal of the victim from the rope or webbing, and a means of removal of the victim to the ground or other safe area, so that risks to victims and rescuers are minimized, injury to the victim is minimized, the means of attachment to the rope rescue system is maintained, the victim is removed from the rope or webbing, and the victim is brought to a safe area for transfer to EMS.

| 5.3.2 | | | X | |
|---------------------------------|------------------------|----------------|--------------------------------|--------|
| 5.3.2 (A) * Requisite Knowledge | ge. Techniques and sy | stems for safe | e transfer of suspended victim | าร |
| from an existing anchored rop | e or webbing to a rope | rescue syste | m, various techniques for har | ndling |
| suspended victims, and princi | oles of suspension-ind | uced injuries. | | |

| 5.3.2 (B) | Requisite Skills. Seled | ct and construct system | ns for rapid removal of victims from lanyards or |
|------------|-------------------------|--------------------------|--|
| rope or v | vebbing, manage oper | ration of the selected s | system, determine condition of the suspended |
| victim, re | duce hazards for reso | cuers and victims, and | determine specialized equipment needs for |
| victim mo | ovement. | | |

5.3.2(B)

5.3.2(A)

5.3.3 <u>*</u> While suspended from a rope rescue system, perform the transfer of a victim suspended from rope or webbing in a high-angle environment to a separate rope rescue lowering or mechanical advantage system, given a rope rescue system, a specified minimum travel distance for the victim, victim transfer systems, and specialized equipment necessary for the environment, so that risks to victims and rescuers are minimized, undesirable victim movement during the transfer is minimized, the means of attachment to the rope rescue system is maintained, the victim is removed from the static line and lowered or raised to a stable surface, victim positioning is managed to reduce adverse effects associated with suspension-induced injuries, selected specialized equipment facilitates efficient victim movement, and the victim can be transported to the local EMS provider.

5.3.3

Х

5.3.3 (A) Requisite Knowledge. Task-specific selection criteria for victim transfer systems, various physical and psychological victim management techniques, PPE selection criteria, design characteristics and intended purpose of various transfer systems, rigging principles, cause and effects of suspension-induced injuries, methods to minimize common environmental hazards, and hazards created in high-angle environments.

<u>5.3.3(A)</u>

5.3.3 (B) Requisite Skills. The ability to choose victim transfer systems, select and use PPE appropriate to the conditions, perform a transfer of the victim from a static line to the lowering or mechanical advantage system, reduce hazards for rescuers and victims, and determine specialized equipment needs for victim movement.

5.3.3(B)

5.3.4 <u>*</u> Perform the activities of a litter tender in a high-angle lowering or raising operation, given a rope rescue system, a specified minimum travel distance for the litter tender, life safety harnesses, litters, bridles, and specialized equipment necessary for the environment, so that risks to victims and rescuers are minimized; the means of attachment to the rope rescue system is secure; and the travel path is negotiated while minimizing risks to equipment or persons.

<u>5.3.4</u>

X

X

Х

5.3.4 (A) Requisite Knowledge. Task-specific selection criteria for life safety harnesses, PPE selection criteria, variations in litter design and intended purpose, high-angle litter attachment principles, techniques and practices for high-angle environments, and common hazards imposed by the various structures and terrain.

5.3.4(A)

Χ

Х

5.3.4 (B) Requisite Skills. The ability to select and use rescuer harness and PPE for common environments, attach the life safety harness to the rope rescue system, maneuver the litter past obstacles or natural structural features, manage the litter while attached to the rope rescue system, and evaluate surroundings for potential hazards.

<u>5.3.4(B)</u>

5.3.5 * Participate as a member of a team in the construction of a rope rescue system intended to move a suspended rescue load along a horizontal path to avoid an obstacle, given rescue personnel, life safety rope, rope rescue equipment, and a suitable anchor capable of supporting the load, so that personnel assignments are made and clearly communicated; the system constructed can accommodate the load; tension applied within the system will not exceed the rated capacity of

any of its components' parts; a system safety check is performed; movement on the load is efficient; and loads can be held in place or moved with minimal effort over the required distance.

5.3.5

X

5.3.5 (A) Requisite Knowledge. Determination of incident needs as related to operation of a system, capabilities and limitations of various systems (including capacity ratings), methods for limiting excessive force to system components, incident site evaluation as related to interference concerns and obstacle negotiation, rigging principles, system safety check protocol, common personnel assignments and duties, common and critical operational commands, and common problems and ways to minimize these problems during construction.
5.3.5(A) X
5.3.5(B) Requisite Skills. The ability to determine incident needs as related to construction of a system, evaluate an incident site as related to interference concerns and setup, identify the

system, evaluate an incident site as related to interference concerns and setup, identify the obstacles or voids to be negotiated, select a system for defined task, perform system safety checks, use rigging principles that will limit excessive force to system components, and communicate with personnel effectively.

5.3.5(B)

5.3.6 <u>*</u> Direct a team in the operation of a rope system to move a suspended rescue load along a horizontal path, given rescue personnel, an established system, a target for the load, a load to be moved, and PPE, so that the movement is controlled; the load is held in place when needed; operating methods do not stress the system to the point of failure; personnel assignments are made; tasks are communicated; and potential problems are identified, communicated, and managed.

5.3.6

Х

X

5.3.6 (A) Requisite Knowledge. Determination of incident needs as related to the operation of a system, capabilities and limitations of various systems, incident site evaluation as related to interference concerns and obstacle negotiation, system safety check protocol, procedures to evaluate system components for compromised integrity, common personnel assignments and duties, common and critical operational commands, common problems and ways to minimize or manage those problems, and ways to increase the efficiency of load movement.

5.3.6(A)

X

5.3.6 (B) Requisite Skills. The ability to determine incident needs, complete a system safety check, evaluate system components for compromised integrity, select personnel, communicate with personnel effectively, manage movement of the load, and evaluate for any potential problems.

<u>5.3.6(B)</u>

Х

5.3.7 Climb and traverse natural features or man-made structures that require the use of climbing aids, positioning equipment, or fall protection systems to prevent the fall or unwanted movement of the rescuer, given the equipment used by the agency, and a task that reflects the anticipated rescue environment so that the objective is achieved, the rescuer can perform the required task, and fall protection is maintained.

| <u>5.3.7</u> | | | X |
|--------------|----------------------|---------------------|--|
| 537(A) | * Requisite Knowledg | The application and | d limitations of climbing positioning and fall |

5.3.7 (A) <u>*</u> Requisite Knowledge. The application and limitations of climbing, positioning, and fall protection systems and equipment commensurate with the organization's needs.

| <u>5.3.7(A)</u> | X | | |
|--|--|---|--|
| 5.3.7 (B) provided equipment the rescu | Requisite Skills. The a by the environment o nt to support the weig lier to perform a task. | ability to climb vertical r climbing aids used b ht of the rescuer in a v | or near-vertical paths using the surfaces y the agency and the use of positioning ⁄ertical or near-vertical environment permitting |
| <u>5.3.7(B)</u> | | | X |
| 5.3.8 <u>*</u> Ir environm organizat communi not escal | nteract with a person lent consistent with th tion, and a person in a cated to the team, the ate the incident. | at height who is in an e e mission of the agene a crisis scenario so tha e rescuer is prevented | emotional or psychological crisis given an cy, the policies and procedures of the at the condition is recognized and from harm, and the actions of the rescuer do |
| <u>5.3.8</u> | | | X |
| 5.3.8 (A) cause inc rescuer a | Requisite Knowledge dividuals to become a and the subject, and b | Indicators of a persor gitated or anxious, me est practices to de-es | n in emotional crisis, typical triggers that can thods of interacting to prevent harm to the calate incidents involving persons in crisis. |
| <u>5.3.8(A)</u> | X | | |
| 5.3.8 (B) whose ps motives a manner t | Requisite Skills. Meth sychological or emotio and state of mind of th hat does not escalate | ods of approach that r onal state is unknown, ne subject, and commu the incident. | ninimize the risk to the rescuer from subjects interview techniques that provide insight to the unicating and interacting with the subject in a |
| <u>5.3.8(B)</u> | | | Χ |
| 5.3.9 * A specified belay sys ascendin ascendin contact, i the fixed of failure | scend a fixed rope in minimum distance fo stem, a life safety harn g is secured to the fix g is attached to the ro njury to the person as rope and rest suspen | a high-angle environn r the rescuer, a system ness worn by the perso aed rope in a manner th ope by means of an as scending is minimized, | nent, given an anchored fixed-rope system, a n to allow ascent of a fixed rope, a structure, a on ascending, and PPE, so that the person nat will not allow him or her to fall, the person cent control device(s) with at least two points of the person ascending can stop at any point on |
| obstacles | the person ascendin are negotiated, the s | ded by his or her harn g can convert his or he system is suitable for t | ess, the system will not be stressed to the point er ascending system to a descending system, he site, and the objective is reached. |
| <u>5.3.9</u> | the person ascendins are negotiated, the s | ded by his or her harn g can convert his or he system is suitable for t | ess, the system will not be stressed to the point er ascending system to a descending system, he site, and the objective is reached. X |
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| 5.3.9 5.3.9(A) F for ascen devices u systems 5.3.9(A) | the person ascending are negotiated, the s Requisite Knowledge. Iding a fixed rope, PP Itilized, rigging princip to descending system | ded by his or her harn g can convert his or he system is suitable for the Task-specific selectio E selection criteria, de oles, techniques for hig ns, and common hazar | ess, the system will not be stressed to the point er ascending system to a descending system, he site, and the objective is reached. X n criteria for life safety harnesses and systems sign and intended purpose of ascent control h-angle environments, converting ascending ds posed by maneuvering and harnessing. |

| <u>5.3.9(B)</u> | | | X |
|---|---|--|---|
| 5.3.10 * Descend a fixed rope in a high-angle environment, given an anchored fixed-rope system, a specified minimum travel distance for the rescuer, a system to allow descent of a fixed rope, a belay system, a life safety harness worn by the person descending, and PPE, so that the person descending is attached to the fixed rope in a manner that will not allow him or her to fall, the person descending is attached to the rope by means of a descent control device, the speed of descent is controlled, injury to the person descending is minimized, the person descending can stop at any point on the fixed rope and rest suspended by his or her harness, the system will not be stressed to the point of failure, the system is suitable for the site, and the objective is reached. | | | |
| <u>5.3.10</u> | | | X |
| 5.3.10 (A) Requisite Knowledge. Task-specific selection criteria for life safety harnesses and systems for descending a fixed rope; PPE selection criteria; design, intended purpose, and operation of descent control devices utilized; safe rigging principles; techniques for high-angle environments; and common hazards posed by maneuvering and harnessing. | | | |
| <u>5.3.10(A)</u> | X | | |
| 5.3.10 (B) Requisite Skills . The ability to select and use rescuer harnesses, a system for descending a fixed rope, and PPE for common environments; attach the life safety harness to the rope rescue system; make attachment of the descent control device to the rope and life safety harness; operate the descent control device; maneuver around existing environment and system-specific obstacles; and evaluate surroundings for potential hazards. | | | |
| <u>5.3.10(B)</u> | | | X |
| 5.3.11 Demonstrate the ability to escape from a jammed or malfunctioning device during a fixed- rope descent in a high-angle environment, given an anchored fixed-rope system with a simulated malfunctioning descent control device, a system to allow escape from the malfunctioning device, a belay system, a life safety harness worn by the person descending, and PPE, so that the person descending is attached to the fixed rope in a manner that will not allow him or her to fall, the person descending is attached to the rope by means of a descent control device, the means for escape will allow the rescuer to escape either upward or downward from the malfunctioning descent control device, injury potential to the rescuer is minimized, the system will not be stressed to the point of failure, the system is suitable for the site, and the objective is reached. | | | |
| <u>5.3.11</u> | | | X |
| 5.3.11(A) Requisite Knowledge. Task-specific selection criteria for escape equipment and methods used for escape from a malfunctioning descent control device; PPE selection criteria; design, intended purpose, and operation of escape systems utilized; safe rigging principles; techniques for high-angle environments; and common hazards posed by malfunctioning descent control devices. | | | |
| <u>5.3.11(A)</u> | X | | |
| | | | |

5.3.11 (B) Requisite Skills. The ability to select and use rescuer harnesses, a system for escaping a malfunctioning descent control device, and PPE for common environments; attach the life safety harness to the rope rescue system; make attachment of the descent control device to the rope and life safety harness; attach and operate the escape system to remove the rescuer from the malfunctioning descent control device while maintaining patent attachment to the fixed rope and belay; use the escape system to maneuver upward or downward from the malfunctioning descent control device for potential hazards.