Rope Rescue Awareness and Rope Rescue Operations
National Certification

Certification Preparation Guide

Referenced to:
NFPA 1006, Chapter 5, 2021 Edition
Referenced to:

NFPA 1006, Chapter 5, 2021 Edition

Kansas Fire & Rescue Training Institute (KFRTI)
Rope Rescue Operations Student Manual, 2023

CMC Rescue, Inc. (CMC)
Rope Rescue Technician Manual
6th edition, 2021

Copies of this document may be downloaded from https://jayhawkglobal.ku.edu/kufire-firefighter-certification#study_guides

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Dear Certification Candidate,

Welcome to the National Firefighter Certification Program!

The Kansas Fire & Rescue Training Institute is accredited by the International Fire Service Accreditation Congress (IFSAC) and by the National Board on Fire Service Professional Qualifications (NBFSNQ - also known as "Pro Board"). These accreditation agencies establish rules and standards to follow in the administration, recordkeeping, and providing of National Certification for the fire service. Through this accreditation, the Kansas Fire & Rescue Training Institute is authorized to issue accredited National Certifications to individuals meeting the requirements of selected national standards.

Kansas Fire & Rescue Training Institute's role in the process is to maintain testing materials and a fair system of administering certification exams.

This National Certification Preparation Guide is designed to help you prepare for the examination process. This guide gives reading references for the written exam and the skills exam. By using this guide, you will look at the same pages the test writer looked at when they wrote the test questions and developed the skills evaluation sheets.

Our Coordinators and Evaluators are here to observe your skills and knowledge – they will not help you pass the test.

Our staff and evaluators will treat you with respect and professionalism. Our goal is that you complete the testing process with satisfactory performance and earn your National Certification.

Good luck,

KFRTI Staff
National Certification

National Certification is a professional credential that verifies your proficiency in the level to which you were/are certified. Kansas certifications do not expire. If you are moving to another state, you should contact the certification entity in that state to find out if your National Certification from Kansas is recognized.

Certification Program Mission

The mission of the National Certification Program is to maintain an accredited system for Kansas Fire Service members to earn National Fire Service Certification professional credentials.

Certification Program Values and Principles

In the conduct of this program, the Kansas Fire & Rescue Training Institute uses the values listed below to guide our professional conduct; they form the foundations and parameters of this program.

- We hold in high regard honesty and integrity in ourselves and those we serve.
- Kindness and professionalism guide our instructors and our evaluators.
- We respect the fire and emergency services and those who serve in it.
- Transparency of our system, processes, and policies is paramount.
- The certification standards drive fair evaluation and testing.
- We value our role as the provider and protector of the national certification program's credibility.

Academic Integrity

We hold staff (including part-time) and certification candidates to identical ethical standards. We expect professional behavior at all times. Any incident of academic misconduct by a candidate will invalidate their test results, forfeit their certification fee, and may subject them to suspension from the certification process for one year.

Academic misconduct includes cheating, plagiarism, falsification of records, unauthorized possession of examinations, intimidation, and/or other actions that may improperly affect the evaluation of a candidate or assisting others in any such act.

Our policy on academic misconduct is that of "zero tolerance."

The University of Kansas prohibits discrimination. Specifically, the University of Kansas prohibits discrimination based on race, color, ethnicity, religion, sex, national origin, age, ancestry, disability, status as a veteran, sexual orientation, marital status, parental status, gender identity, gender expression, and genetic information in the University's programs and activities. Retaliation is also prohibited by University policy.
How to Use the Certification Preparation Guide

This National Certification Preparation Guide is designed to help you prepare for the examination process. This guide provides reading references for the written exam and the skills exam.

We have included information in this guide to help you achieve the professional Fire Service National Certification credential. There are a few critical elements in preparing for the National Certification Exam. They are: 1) Take some time between the end of your course and the certification exam to focus on studying for the exam. 2) Use this Preparation Guide to help focus on the requirements of the National Standard and your study time.

**STEP 1: Review the Administrative information in front of this Preparation Guide.**

- We have included some important information about the program and the steps of certification. Please take a few minutes and review these pages.

**STEP 2: Review the Reading Reference Pages**

The Reading Reference pages are arranged by Job Performance Requirements (JPRs), which are determined by the correlating NFPA standard.

- Read and study the pages listed in the written exam reading pages.
- By reading these pages, you are reading the same pages the test developer was when they were writing test questions.

**STEP 3: Review the Skill Evaluation Sheets in this Certification Guide.**

- Take note of the Instructions to the candidate (grey boxes) on each Skill Sheet. These are the instructions that the evaluator will give to you in each station before you test.
- Skills sheet references refer you to the reference manual to explain the skill. You will be graded only on those items listed on the skill evaluation sheets. Use these in your practice and exam preparations.

**STEP 4: Read & Review, Read & Review, Read & Review, and Practice, Practice, Practice!**

- Don’t practice until you do it right; practice until you can’t do it wrong!

**STEP 5: Get a good night’s rest before the exam.**

- You can be tired in three ways: Mentally, Physically, and Emotionally. If you are tired in any of these ways, it will make you tired in **ALL** of them.
- Save the party for after the exam... get a good night's rest... eat a good breakfast (if you test in the morning)... easy on the sugar and caffeine... and relax!

**GOOD LUCK!**

*Note:*

*If you are exploring National Certification and haven't taken a course specifically for the level of certification you are seeking, we STRONGLY suggest that you start the process by taking a course. Under certain circumstances, you may challenge some certification exams. Persons who take a course first do much better on the exam. Contact the Kansas Fire & Rescue Training Institute for more information.*
National Certification Application & Processes

Application: Applications are required before testing. Visit the KFRTI web page (https://kupce.ku.edu/kufire-firefighter-certification) to download the application.

Registration for Exams: Pre-registration is required. Go to the KFRTI online registration point to register and pay the certification fee. (https://www.enrole.com/kupce/jsp/index.jsp?categoryId=10019)

Certification Fees: Certification fees must be paid before the exam date. Individuals are required to pay fees online when registering for an exam. An organization may request to be billed; this billing process requires a Purchase Order from that organization stating each candidate's name. To arrange billing, call the KFRTI at 1-866-804-8841. Billing cannot be processed online.

Number of Attempts: Candidates are allowed two attempts per test per application, and all testing must be completed within one year of the first testing activity. Additional testing requires a new application and fee.

Picture I.D. Required: A government-issued photo I.D. is required at the test site.

Accommodations: The Kansas Fire and Rescue Training Institute, as part of the University of Kansas, adheres to the requirements of the Americans with Disabilities Act. Certification candidates requesting accommodations must submit the request in writing two (2) weeks before testing. The request must include a copy of the diagnosis by a qualified professional. Upon receipt of an accommodations request, the Kansas Fire and Rescue Training Institute will review the request and notify the requestor of the proposed accommodations.

What if I Fail the Exam?

Failure of any required component (less than 70% on the written exam, or less than 100% on the skills exam) constitutes a failed attempt.

a. Candidates may retest on any component of the exam (written or skills exams).

b. Candidates must register to take a retest at another test site. No walk-in testing is allowed. Call the Institute at (toll-free) 866-804-8841 to register for a retest.

c. Candidates are allowed two (2) attempts at any portion of the exam. A new application and fee is required if a candidate fails any portion of the exam twice. The new application starts the certification process over, and all portions of testing will have to be retested.

d. The Institute strongly recommends that candidates study or seek additional training before attempting the exam for a third attempt.

Time to Complete Certification

Candidates have one year from the date of their first testing action to complete their certification. Retaking the written test, retesting skills, submitting verification forms, and all other requirements must be completed within that year. Failure to complete the certification within that year will invalidate all previous testing. The candidate must submit a new application, repay the testing fee, and resubmit all verification forms to retest for the written and skills tests before certification.
Kansas Fire & Rescue Training Institute's Certification Requirements for Trench Rescue Operations

Prerequisites

None. This certification process will test each candidate on Rope Awareness, Trench Awareness, and Trench Operations. Certifications from other entities will be evaluated for reciprocity as per the KFRTI's Reciprocity policy.

Trench Rescue Operations - Certification Exam

Written Exam:

- The Rope Rescue Operations Written Exam includes 100 multiple-choice and true/false questions. The written test covers two (2) disciplines: Rope Rescue Awareness (20 questions), and Rope Rescue Operations (80 questions).
- Candidates are allowed two (2) hours to complete the exam.
- Answer sheets and pencils are provided. “Bubble Sheet” answer sheets that candidates fill in small circles to indicate answer (a, b, c, d) as the correct answer are used.
- No cell phones, radios, or other electronic devices are allowed in the room while an exam is being administered (an exception for radios that would enable "on-duty" personnel to receive alarms may be granted under special circumstances).
- A 70% minimum score is required to pass the written exam in each discipline.

Skills Exam:

- The Skills Exam includes individual and team skills. Depending on the skill being tested, candidates may be tested individually or as a member of a team.
- Teams of candidates are formed for the purpose of skills testing. Individual candidates may not pre-select or make up crews of their own choosing. The Exam Coordinator appoints teams (for testing purposes) at the test site.
- When testing as a team member, evaluation will include both individual performance and performance as a member of the team.
- Skills Exams typically include 3 to 4 stations. Each station may consist of multiple skills. All skill exams will include no fewer than eight (8) skills in total.
- You will be given up to two attempts at each station. The two attempts per station make up your first overall attempt at the skills exam.
- Skills exams require 100% to pass in all stations.
- No same-day skills retesting is allowed.
**Written Exam:** 100 multiple-choice and true/false questions.

- **Rope Rescue Awareness** 20 questions
- **Rope Rescue Operations** 80 questions

**Time allowed to take exam:** Two (2) hours.

**Passing Score:** 70% (or higher)

Answer sheets and pencils are provided. "Bubble Sheet" answer sheets that candidates fill in small circles to indicate answer (a, b, c, d) as the correct answer are used.

No cell phones, radios, or other electronic devices are allowed in the room while an exam is being administered (an exception for radios that would enable "on-duty" personnel to receive alarms may be granted under special circumstances).

**Reading Reference/Text**

The Trench Rescue Operations written exam is referenced to two (2) documents. The first document is the supplemental guide the Kansas Fire & Rescue Training Institute (KFRTI) produced.

(KFRTI) - Kansas Fire & Rescue Training Institute, *Rope Rescue Operations Student Manual 2023*


The National Standard test is based on


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**Written Exam Study Pages**

*Test questions are taken from these exact pages.*

<table>
<thead>
<tr>
<th>Section Subject</th>
<th>Reading/Study Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA 1006, JPR Number</td>
<td></td>
</tr>
</tbody>
</table>

5.1 **Rope Rescue Awareness – General Requirements**

Assist a team in the operation of the haul line of a rope mechanical advantage system raising operation.

5.1.1 (KFRTI) Pages: 8-9, 35-37, 43-47, 113-116, 137-141, 157-161

Size up a rope rescue incident.

5.1.2 (KFRTI) Pages: 10, 13-18, 157-161

Recognize incident hazards and initiate isolation procedures.

5.1.3 (KFRTI) Pages: 11-16, 19, 23-34, 43-47, 50-53, 66-69, 107-116
5.2 Rope Rescue Operations – General Requirements

Perform size up of a rescue incident.
5.2.1 (KFRTI) Pages: 10, 13-18, 20-21

Maintain hazard-specific PPE.
5.2.2 (KFRTI) Pages: 47-54, 60-68, 71-73

Maintain rescue equipment.
5.2.3 (KFRTI) Pages: 8-9, 49-50, 54-55, 59-68, 74-77, 79-81

Demonstrate knots, bends, and hitches.
5.2.4 (KFRTI) Pages: 60-65, 82-86, 88-101

Construct a single-point anchor system.

Construct a multiple-point anchor system.
5.2.6 (KFRTI) Pages: 38-40, 78-80, 86-104, 107-116, 117-124, 127-130, 133-136

Conduct a system safety check.
5.2.7 (KFRTI) Pages: 38-40, 60-65, 74-77, 117-120, 125-127

Place edge protection.
5.2.8 (KFRTI) Pages: 38-40, 60-65, 74-77, 117-120, 125-127
<table>
<thead>
<tr>
<th>Section Subject</th>
<th>Reading/Study Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construct a system intended to provide belay within a single- or two-tensioned rope system.</td>
<td>(KFRTI) Pages: 82-86, 113-116, 127-130, 133-136</td>
</tr>
<tr>
<td>Operate a system intended to provide belay within a single or two-tensioned rope system during a lowering or raising operation.</td>
<td>(KFRTI) Pages: 35-37</td>
</tr>
<tr>
<td>Belay a falling load in a high-angle environment.</td>
<td>(KFRTI) Pages: 125-130</td>
</tr>
<tr>
<td>Construct a fixed rope system.</td>
<td>(KFRTI) Pages: 35-37, 44-47, 81, 86-104</td>
</tr>
<tr>
<td>Construct a lowering system.</td>
<td>(KFRTI) Pages: 38-40, 125-127, 133-136, 142-144</td>
</tr>
<tr>
<td>Direct a lowering operation in a high-angle environment.</td>
<td>(KFRTI) Pages: 86-104, 133-136</td>
</tr>
<tr>
<td>Construct a simple rope mechanical advantage system.</td>
<td>(KFRTI) Pages: 74-79, 86-104, 137-141</td>
</tr>
<tr>
<td>Direct a team in the operation of a simple rope mechanical advantage system in a high-angle raising operation.</td>
<td>(KFRTI) Pages: 13-16, 35-37, 113-116, 123-124, 130-131, 133-136, 137-141</td>
</tr>
<tr>
<td>Construct a compound rope mechanical advantage system.</td>
<td>(KFRTI) Pages: 78-80, 113-116, 137-141, 171-190</td>
</tr>
<tr>
<td>Direct the operation of a compound rope mechanical advantage system in a high-angle environment.</td>
<td>(KFRTI) Pages: 35-40, 113-116, 137-141</td>
</tr>
<tr>
<td>Negotiate an edge while attached to a rope rescue system during a high-angle lowering and raising operation.</td>
<td>(KFRTI) Pages: 81, 105-106, 113-116</td>
</tr>
<tr>
<td>Section Subject</td>
<td>Reading/Study Pages</td>
</tr>
<tr>
<td>------------------------------------------------------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>Prepare for transfer of victims</td>
<td>(KFRTI) Pages: 13-16, 44-47, 142-144</td>
</tr>
<tr>
<td>Operate as a litter tender in a low-angle lowering or raising operation.</td>
<td>(KFRTI) Pages: 69-71, 97-101, 127-130, 133-136, 142-144</td>
</tr>
<tr>
<td>Direct a litter-lowering or litter-raising operation in a high angle environment.</td>
<td>(KFRTI) Pages: 13-16, 35-37, 69-71, 142-144</td>
</tr>
<tr>
<td>Terminate a technical rescue operation.</td>
<td>(KFRTI) Pages: 8-9, 11-13, 20-21, 23-26, 54-57</td>
</tr>
</tbody>
</table>
Rope Rescue Operation Skills Exam
Study/Preparation Information and Materials

Rope Rescue Operations Skills Exam:
The Skills Exam includes individual and team skills. Depending on the skill being tested candidates may be tested individually or as a member of a team.

Teams of 4 to 6 candidates are formed for the purpose of skills testing. Individual candidates may not pre-select or make up crews of their own choosing. The Exam Coordinator appoints teams (for testing purposes) at the test site.

When testing a team member, evaluation includes both individual performance and performance as a member of the team.

Skills Exams typically include 4 to 5 stations. Each station may consist of 1 to 7 skills. All Rope Rescue Operations Skills Exams will include no fewer than fourteen (14) skills in total.

Time allowed to take exam: The overall skill exam is not timed; however, individual skills and/or stations may include a maximum/minimum time.

Passing Score: Skills exams require 100% on all stations and skills. Up to two attempts will be given for each skill and/or station being tested. These two attempts make up your first attempt at the skills exam.

No cell phones, radios, or other electronic devices are allowed in the room while an exam is being administered (an exception for radios that would enable "on-duty" personnel to receive alarms may be granted under special circumstances).

Reading Reference/Text
The Rope Rescue Operation skills exam is referenced to:

(KFRTI) - Kansas Fire & Rescue Training Institute, Rope Rescue Operations Student Manual 2023

The National Standard test is based on:

Rope Rescue Operations
Skill Evaluation Sheets

These Skills Evaluation Sheets are the exact grading sheets that evaluators use during the Skills Test. These sheets have been edited to use grading skills explicitly and should not be used to learn the skills.

These Skill Evaluation Sheets have been included in this Preparation Guide for the purpose of guiding you as final preparations are made (and practice performed) for the Certification Exam.

Grading for the Skills Evaluation requires performing 100% of the steps listed on these sheets. You will not be evaluated on steps of the skills that are not listed on these evaluation sheets.
Rope Rescue Awareness: Provide support and assist a team in the operation of a haul line rope mechanical advantage raising system

**Item RA1**

**Reference:** NFPA 1006, 2021 Edition, Chapter 5, Job Performance Requirement 5.1.1. and 5.1.5.

**Evaluator Equipment Required:** Scenario 5.1, KFRTI Anchor Bag and Rigging Bag, Rescue Ropes, Pre-Rigged "Resettable 3:1 system"

**Candidate Equipment Required:** Personal Protective Equipment (helmet, gloves, boots, and protective clothing)

**Evaluator's Instructions to Candidates**

At this station, under the supervision of the haul team leader, you will work as a member of the haul team to support an operations level rope mechanical advantage system raising operation. You shall perform your assignment per the incident action plan following operation protocols. You shall select and wear the appropriate PPE, position yourself on the haul line, then execute operational commands as directed. The load movement will remain controlled at all times. When directed, you will have 2 minutes to reset the haul cam, report task progress, and return to the haul line prepared to continue the raising operation. Additionally, you will identify, communicate, and manage safety concerns during the operation.

This skill will end once the load has moved at least 15 feet and you performed one system reset.

**Evaluation Matrix**

<table>
<thead>
<tr>
<th></th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Performs assignment per the incident action plan</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>2. Follows operation protocols</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>3. Selects and wears appropriate PPE</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>4. Recognizes parts of the mechanical advantage system</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>a. Haul Line</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>b. Haul cam</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>5. Recognize and executes operational commands</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>6. Resets the mechanical advantage system when directed</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>7. Reports task progress status to supervisor</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>8. Load movement remain controlled during operation</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>9. Identify and Express safety concerns during raising operations</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>10. Meet allowed time (2 min reset)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

---

**Date:** __________________________

**Station:** ____________  Pass [ ]  Fail [ ]

**Candidate name:** ____________________________  **Candidate Signature:** ____________________________

**Evaluator Name:** ____________________________  **Evaluator Signature:** ____________________________

**Notes (Please include comments/explanation for failure):**

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Revised: Jan 2023
**Rope Rescue Awareness: Perform a Size up and Initial Assessment of a Rope Rescue Incident**

**Reference:** NFPA 1006, 2021 Edition, Chapter 5, Job Performance Requirement 5.1.2., 5.1.3,

**Evaluator Equipment Required:** 5.1.4, 5.1.5
- Scenario, Simulated victim(s), Tactical Worksheets and checklist, Witness or Reporting party, Technical Reference Materials (i.e., Field guides, ERGs, NIOSH Chem Guide), Personal Protective Equipment (Helmet), Pen and Paper

**Candidate Equipment Required:**
- NFPA 1006, 2021 Edition, Chapter 5, Job Performance Requirement 5.1.2., 5.1.3, 5.1.4, 5.1.5
- Scenario, Simulated victim(s), Tactical Worksheets and checklist, Witness or Reporting party, Technical Reference Materials (i.e., Field guides, ERGs, NIOSH Chem Guide), Personal Protective Equipment (Helmet), Pen and Paper

### Evaluator's Instructions to Candidates

At this station, you will perform a size-up and initial assessment of a rope rescue incident. You will determine the scope of the rescue and initiate an incident management system. You shall select and use technical reference materials and planning forms. You will identify the number of victims and their last reported location through observations, interviewing witnesses, and reporting parties. The primary search area shall be determined and secured. Hazards will be assessed, and isolation methods considered and implemented to minimize risks to rescuers, bystanders, and victims. Finally, you shall determine resource needs to fit the operational requirements and consider time constraints. You have a 20 minutes maximum time limit to complete your size-up and scene assessment, then relay the information via a command transfer.

To pass this station, you must successfully complete all 100% of the steps.

### Evaluation Matrix

<table>
<thead>
<tr>
<th>Step</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Operates within SOG/ SOP requirements for a rope rescue incident</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>2. Establish Incident Command, Incident Management System, and Rehab</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>3. Identify type and nature of incident (technical reference incident type booklet)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>4. Select and use technical rescue reference materials and planning forms</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>5. Identify and interview on-scene sources (Witnesses, RP, LEO, Victims)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>6. State scene boundaries, search criteria, and secure scene</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>7. Assess potential hazards to rescuers and bystanders</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>8. Determine safety measures and methods to isolate hazards and environmental concerns</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>9. Assess resource availability, capabilities, and limitations</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>10. Perform a risk/benefit analysis, and minimize risk</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>11. Determine the need and Initiate request for additional resources and equipment</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>12. Implement isolation methods and control equipment</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>13. Relay size-up information</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>14. Meet allowed time (20 minutes)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

Date: __________________________  Station: Pass ☐ Fail ☐

Candidate name: __________________________  Candidate Signature: __________________________

Evaluator Name: __________________________  Evaluator Signature: __________________________

Notes (Please include comments/explanation for failure):

Revised: Jan 2023
**Rope Rescue Operations: Size up a Rope Rescue Incident**

**Item RO1**


**Evaluator Equipment Required:** 5.2 Rope Product Packet, Tactical Worksheet, Technical Reference materials

**Candidate Equipment Required:** Computer, Pen and Paper

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**Instructions to Candidates**

Provide a copy of your department’s rope rescue SOPs/SOGs. If your department does not have an SOP/SOG covering operations level rope rescue response use the provided KFRTI SOG 500.21.

Describe an incident or situation where your department would require the response of rope rescue personnel, trained to above the awareness level, and require the use of rope rescue equipment. Provide the gathered scene size up information as if you were transferring command. You may use tactical reference material and command worksheets. Information must include:

- Tactical reference materials used
- Planning forms / tactical command sheets used
- Scene description and assessment
  - Locations (e.g., address, GPS coordinates)
  - Photographs and Aerial views (e.g., google maps) are encouraged
- Potential information sources
- Identify any additional technical rescue resources required
  - (e.g., mutual aid, local rescue teams, regional teams)
- Identify hazards or potential hazards at the scene
- Signed off by Chief Officer or Training Officer

(Packet must be completed and returned with in 6 months)

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**Evaluation Matrix**

<table>
<thead>
<tr>
<th></th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

1. Tactical reference materials used
2. Planning forms / tactical command sheets used
3. Scene description and assessment
4. Potential information sources
5. Identify any additional technical rescue resources required
6. Identify hazards or potential hazards at the scene
7. Signed off by Chief Officer or Training Officer
8. Complete packet returned on:

---

| Date: | Date Due: | Station: | Pass | Fail |

Candidate name: ___________________________  Candidate Signature: ___________________________

Evaluator Name: ___________________________  Evaluator Signature: ___________________________

Notes (Please include comments/explanation for failure):

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Revised: Jan 2023
**Rope Rescue Operations: Maintain hazard-specific PPE**

**Reference:** NFPA 1006, 2021 Edition, Chapter 5, Job Performance Requirement 5.2.2

**Evaluator Equipment Required:** PPE item (e.g. helmet, harness), Equipment inspection and maintenance documentation, specialized tools.

**Candidate Equipment Required:** Pen

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**Evaluator's Instructions to Candidates**

At this station you will complete an inspection and required maintenance of hazard-specific PPE (personal protective equipment) used during an incident, and return the item to an operational readiness state. You must identify any signs of wear or damage, and if the item requires cleaning, sanitizing, or removal from service. All logs and maintenance records must be completed. I (evaluator) will indicate which item will be inspected. You will gather all of the reference materials, inspection documentation, cleaning supplies, and specialized tools to required to complete the inspection and maintenance process. Once you have completed the inspection, you will verbalize the results when directed.

You will have **15 minutes** to complete the inspection and documentation for each item.

To pass this station you must successfully complete 100% of the steps.

---

**Evaluation Matrix**

<table>
<thead>
<tr>
<th>Evaluator will indicate the PPE items to be inspected - Time Starts</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Gathers reference materials and documentation</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>2. Gathers or verbalizes specialized tools and cleaning supplies</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>3. Completes inspection process and states required maintenance</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>4. Completes documentation</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>5. Meets allowed time (15 minutes)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

**Questions on Inspection and Maintenance Process**

6. **Ask:** Does the "item" require cleaning before being inspected?  
   - Pass [ ] Fail [ ]  
   - Pass [ ] Fail [ ]

7. **Ask:** What is the procedure to (clean, sanitize, or disinfect) this item?  
   - Pass [ ] Fail [ ]  
   - Pass [ ] Fail [ ]

8. **Ask:** What is the procedure if the "item" cannot be cleaned, sanitized, or disinfected?  
   - Pass [ ] Fail [ ]  
   - Pass [ ] Fail [ ]

9. **Ask:** Does the "item" show signs of wear or damage?  
    a. **If Yes,** indicate the wear or damaged areas  
       - Pass [ ] Fail [ ]  
       - Pass [ ] Fail [ ]

10. **Ask:** Do all components of the "item" function and operate as designed?  
    a. **If No,** can the item be fixed or repaired?  
       - Pass [ ] Fail [ ]  
       - Pass [ ] Fail [ ]

11. **Ask:** What are the results of the inspection?  
    - Pass [ ] Fail [ ]  
    - Pass [ ] Fail [ ]

---

**Candidate Information**

<table>
<thead>
<tr>
<th>Date:</th>
<th>Station: Pass [ ] Fail [ ]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate name: _____________________________</td>
<td>Candidate Signature: _____________________________</td>
</tr>
<tr>
<td>Evaluator Name: _____________________________</td>
<td>Evaluator Signature: _____________________________</td>
</tr>
</tbody>
</table>

**Notes (Please include comments/explanation for failure):**

Revised: Jan 2023
## Rope Rescue Operations: Maintain Rescue Equipment

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Evaluator Equipment Required:</strong></td>
<td>Rescue equipment item (e.g. Rope, Anchor straps, Connector, Pulley (Optional: MPD, ASAP, ASAP'Sorber)), Equipment inspection and maintenance documentation, specialized tools.</td>
</tr>
<tr>
<td><strong>Candidate Equipment Required:</strong></td>
<td>Pen</td>
</tr>
</tbody>
</table>

### Evaluator’s Instructions to Candidates

At this station you will complete an inspection and required maintenance of rescue equipment used during an incident, and return the item to an operational readiness state. You must identify any signs of wear or damage, and if the item requires cleaning, sanitizing, or removal from service. All logs and maintenance records must be completed. I (evaluator) will indicate which item will be inspected. You will gather all of the reference materials, inspection documentation, cleaning supplies, and specialized tools to required to complete the inspection and maintenance process. Once you have completed the inspection, you will verbalize the results when directed.

You will have **15 minutes** to complete the inspection and documentation for each item.

To pass this station you must successfully complete 100% of the steps.

### Evaluation Matrix

<table>
<thead>
<tr>
<th>Evaluator will indicate the items to be inspected - Time Starts</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Gathers reference materials and documentation</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>2. Gathers or verbalizes specialized tools and cleaning supplies</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>3. Completes inspection process and states required maintenance</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>4. Completes documentation</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>5. Meets allowed time (15 minutes)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

### Questions on Inspection and Maintenance Process

6. **Ask:** Does the "item" require cleaning before being inspected?  
5. If Yes, indicate the wear or damaged areas  

7. **Ask:** What is the procedure to (clean, sanitize, or disinfect) this item?  

8. **Ask:** What is the procedure if the "item" cannot be cleaned, sanitized, or disinfected?  

9. **Ask:** Does the "item" show signs of wear or damage?  
   a. If Yes, indicate the wear or damaged areas  

10. **Ask:** Do all components of the "item" function and operate as designed?  
   a. If No, can the item be fixed or repaired?  

11. **Ask:** What are the results of the inspection?  

### Details

- **Date:** ________________  
- **Station:**  
- **Pass** [ ]  
- **Fail** [ ]  
- **Candidate name:** ___________________________  
- **Candidate Signature:** ___________________________  
- **Evaluator Name:** ___________________________  
- **Evaluator Signature:** ___________________________  
- **Notes (Please include comments/explanation for failure):** ___________________________

Revised: Jan 2023
**Rope Rescue Operations: Demonstrate knots, bends, and hitches**

**Reference:** NFPA 1006, 2021 Edition, Chapter 5, Job Performance Requirement 5.2.4.

**Evaluator Equipment Required:** Rope, webbing, accessory cord, anchor point, harness, and CMC Rope Field Guide

**Candidate Equipment Required:** None (Gloves are optional)

---

**Evaluator’s Instructions to Candidates**

At this station, you will tie a selection of knots, bends, and hitches, from the approved list of KFRTI knots, to complete the requested task, and demonstrate an understanding of basic rope construction. When complete the knots must be tied correctly, dressed, recognizable, and backed up as required.

Each task must be completed under the 3 minute time limit.

To pass this station you must successfully complete 100% of the steps.

---

**Evaluation Matrix**

(Referenced CMC Chapter 8 and KFRTI approved knot list)

<table>
<thead>
<tr>
<th>Ask</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Ask: Identify the construction type of this of 1/2&quot; life safety rope.</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>2. Ask: The majority of the strength is located in which part of this rope?</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>3. Ask: Tie a life safety knot with an efficiency of at least 58% in the end of the rope.</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>4. Ask: Tie the end of the rope directly to a harness utilizing a life safety knot.</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>5. Ask: Tie a mid-line connection loop that has a knot efficiency of at least 58%, that can be tensioned from either end.</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>6. Ask: Tie both ends of the 8mm cordage together to construct a prusik loop.</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>7. Ask: Tie a friction hitch used as a progress capture device.</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>8. Ask: Tie both ends of the webbing together to construct a loop.</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>9. Ask: What knot retains all of the rope’s strength, or is 100% efficient?</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>10. Met 3 minute time limit per task.</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

---

**Date:**

**Station:** Pass [ ] Fail [ ]

**Candidate name:**

**Candidate Signature:**

**Evaluator Name:**

**Evaluator Signature:**

**Notes (Please include comments/explanation for failure):**
**Rope Rescue Operations: Construct a Single Point Anchor System**

**Reference:**  

**Evaluator Equipment Required:** Simulated Anchors, Rope, KFRTI Anchor Bag  
**Candidate Equipment Required:** None (Helmet and Gloves are optional)

---

**Evaluator’s Instructions to Candidates**

At this station, you will select an anchor point and construct a single point anchor system that fits the needs of the incident. It must be capable of supporting a rescue load (600 lbs.), and it must maintain a minimum 10:1 Static System Safety Factor (SSSF). You may choose any of the commonly accepted single point anchor systems methods. You must construct the anchor system up to, and including, the attachment point for a rope system and then conduct a safety check.

This process will end once you indicate you are finished, or the maximum 10 minute time limit expires. To pass this station you must successfully complete 100% of the steps.

---

**Evaluation Matrix**

<table>
<thead>
<tr>
<th></th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <strong>ASK:</strong> What are two primary criteria when selecting an anchor?</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>2. <strong>ASK:</strong> Explain what safety concerns you may have of these anchor points and the methods you would use to reduce or minimize these concerns. <em>(Show photographs)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Picture of jagged rocks, steel beam</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>b. Picture of anchor point located 5’ to 6’ up in a tree</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>3. Select an anchor point that fits the incident needs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Strength, Location, Surface Contour</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>4. Select rope, equipment, and knots</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>5. Construct an single point anchor system</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Meets expected load requirements</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>b. Does not interfere with rescue operation or set-up</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>c. Critical angle</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>d. Tri-loading concerns mitigated</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>6. Conduct a system safety check (RO7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Meets allowed time <em>(10 minutes)</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Candidate name:** ____________________________  
**Candidate Signature:** ____________________________

**Evaluator Name:** ____________________________  
**Evaluator Signature:** ____________________________

**Notes (Please include comments/explanation for failure):**

---

Revised: Jan 2023
**Rope Rescue Operations: Construct a Multiple Point Anchor System**


**Evaluator Equipment Required:** Simulated Anchors, Rope, KFRTI Anchor Bag  
**Candidate Equipment Required:** None (Helmet and Gloves are optional)

**Evaluator’s Instructions to Candidates**

At this station, you will select anchor points and construct a multiple-point anchor system that fits the needs of the incident. It must be capable of supporting a rescue load (600 lbs.), and it must maintain a minimum 10:1 Static System Safety Factor (SSSF). You may choose any construction method, but the forces should be distributed relatively evenly between more than one anchor point and the system designed to minimize dynamic loading should an anchor point fail. You must construct the anchor system up to, and including, the attachment point for a rope system and then conduct a safety check.

This process will end once you indicate you are finished, or the maximum **10 minute** time limit expires. To pass this station you must successfully complete 100% of the steps.

**Evaluation Matrix**

<table>
<thead>
<tr>
<th>Step</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Select anchor points that fit the incident's needs</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>2. Select rope, equipment, and knots</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Construct an multipoint anchor system</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. meets expected load requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. does not interfere with rescue operation or set-up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Critical angle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Tri-loading concerns mitigated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Multipoint Anchor system is &quot;Fixed and Focused&quot; towards the load.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Conduct a system safety check (RO7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Meets allowed time (10 minutes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. <strong>Ask:</strong> If the anchor points are moved farther apart, increasing the critical angle, what happens to the forces created on each leg of the anchor system?</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>8. <strong>ASK:</strong> Explain how to you would calculate the system safety factor for a system.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Candidate Information**

Date: ___________________________  
Station: Pass ☐ Fail ☐

Candidate name: ___________________________  
Candidate Signature: ___________________________

Evaluator Name: ___________________________  
Evaluator Signature: ___________________________

Notes (Please include comments/explanation for failure):  

Revised: Jan 2023
**Evaluator's Instructions to Candidates**

At this station, you will conduct a system safety check as a secondary rescuer. Each component of the system will be inspected and secured as required. You will evaluate the system for proper rigging, perform a load test prior to placing the system in service, and verbally confirm if the system is ready for use.

This process will end once you indicate you are finished, or the maximum **10 minute** time limit expires.

To pass this station you must successfully complete 100% of the steps.

**Evaluation Matrix**

<table>
<thead>
<tr>
<th>Step</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Demonstrate the ability to apply and use PPE</td>
<td>[ ] Pass</td>
<td>[ ] Fail</td>
</tr>
<tr>
<td>2. Recognizes system components</td>
<td>[ ] Pass</td>
<td>[ ] Fail</td>
</tr>
<tr>
<td>3. Inspect the rope rescue system components for damage and confirms operation</td>
<td>[ ] Pass</td>
<td>[ ] Fail</td>
</tr>
<tr>
<td>4. Identify equipment requiring replacement</td>
<td>[ ] Pass</td>
<td>[ ] Fail</td>
</tr>
<tr>
<td>5. Inspect rigging to determine correct configuration</td>
<td>[ ] Pass</td>
<td>[ ] Fail</td>
</tr>
<tr>
<td>6. Secure equipment components</td>
<td>[ ] Pass</td>
<td>[ ] Fail</td>
</tr>
<tr>
<td>7. Relays safety check results</td>
<td>[ ] Pass</td>
<td>[ ] Fail</td>
</tr>
<tr>
<td>8. Meet allowed time (<strong>10 minutes</strong>)</td>
<td>[ ] Pass</td>
<td>[ ] Fail</td>
</tr>
</tbody>
</table>

---

Date: __________________________

Candidate name: __________________________

Candidate Signature: __________________________

Evaluator Name: __________________________

Evaluator Signature: __________________________

Notes (Please include comments/explanation for failure):

---

Revised: Jan 2023
Rope Rescue Operations: Place Edge Protection

Evaluator Equipment Required: A pre-rigged rope rescue system (e.g. mechanical advantage, lowering, or belay), a pre-rigged single point anchor system, KFRTI Anchor Bag, and KFRTI Rigging Bag.
Candidate Equipment Required: Personal Protective Equipment (Helmet and Gloves)

Evaluator's Instructions to Candidates
At this station you will install edge protection for a rope rescue system. You will identify areas of concern, select materials or devices to use to mitigate these hazards, secure edge protection items in place, and secure rope and webbing in location to utilize this edge protection. You must maintain personal safety and security at all times and use personnel fall protection measures when required.

This process will end once you indicate you are finished, or the maximum 10 minute time limit expires.
To pass this station you must successfully complete 100% of the steps.

Evaluation Matrix

<table>
<thead>
<tr>
<th>Step</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Recognize areas requiring protection for rope or webbing</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>2. Select materials and devices to be used as edge protection</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>3. Perform methods to mitigate dangers from sharp or abrasive edges</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>a. Secure edge protection material or devices</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Secure rope or webbing to utilize edge protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Recognize situations requiring personnel fall protection</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>5. Use personnel fall protection measures</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>6. Meet allowed time (10 minutes)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

Date: __________________________ Station: Pass [ ] Fail [ ]
Candidate name: __________________________ Candidate Signature: __________________________
Evaluator Name: __________________________ Evaluator Signature: __________________________

Notes (Please include comments/explanation for failure):
Rope Rescue Operations: Construct a Belay System


Evaluator Equipment Required: Pre-Rigged Anchors, Rope, KFRTI Anchor Bag, KFRTI Rigging Bag, ASAP Kit, Clutch or Maestro

Candidate Equipment Required: None (Helmet and Gloves are optional)

Evaluator's Instructions to Candidates

At this station, wearing appropriate PPE, you will construct a belay system for a single or two-tensioned rope system. The belay system must be capable of arresting a fall of a rescue sized load (600lbs), a fall will not result in system failure, the system will not load unless actuated, and actuation of the system will not injure or incapacitate the belay operator. The belay operator shall not be rigged into the components of the system, and the system design is suitable to the site. The belay system must be connected to an anchor system and the load, and safety checked.

This process will end once you indicate you are finished, or the maximum 10 minute time limit expires. To pass this station you must successfully complete all 100% of the steps.

Evaluation Matrix

1. **ASK:** Explain the purpose of using a belay system as part of rope rescue operations.
2. Select and use PPE
3. Select a belay system that meets incident requirements
   a. state non-tensioned belay or two tension rope system
4. Build stated belay system
   a. Selects equipment and components
   b. Tie knots (RO4)
   c. Perform rigging
   d. attach to an anchor system
   e. attach to a load
5. Perform a system safety check (RO7)
6. Meet allowed time (10 minutes)

Date: ___________________________  Station: Pass ☐  Fail ☐

Candidate name: ___________________________  Candidate Signature: ___________________________

Evaluator Name: ___________________________  Evaluator Signature: ___________________________

Notes (Please include comments/explanation for failure):

Revised: Jan 2023
Rope Rescue Operations: Operates a Belay System

Item RO10


Evaluator Equipment Required: Pre-Rigged Anchors, Pre-Rigged Main line (Raising or Lowering), Rope, KFRTI Anchor Bag, KFRTI Rigging Bag, ASAP Kit, Clutch or Maestro

Candidate Equipment Required: Helmet and Gloves

Evaluator’s Instructions to Candidates

At this station, you will operate a belay system for a single or two-tensioned rope system a minimum travel distance of 15 feet, so that the potential fall factor is minimized, the belay is not actuated during normal lowering and raising operations, the belay system is prepared for actuation at all times during the operation, the belay operator is attentive at all times during the operation, the load’s position is continually monitored, and the belay operator moves rope through the belay device as designed.

This process will end once you indicate you are finished, or the maximum 10 minute time limit expires.

To pass this station you must successfully complete all 100% of the steps.

Evaluation Matrix

<table>
<thead>
<tr>
<th>Step</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass</td>
<td>Fail</td>
<td>Pass</td>
</tr>
</tbody>
</table>

1. Dons and uses hazard-specific PPE
2. Demonstrates the ability to select a belay system
3. Ties appropriate knots and properly attaches rope to belay device
4. Demonstrates the ability to operate a belay device as designed
5. Assess system effectiveness
6. Manages and communicates belay system status effectively
7. Performs a system safety check (RO7)
8. Meet allowed time (10 minutes)

Date: ____________________  Station: Pass [ ] Fail [ ]

Candidate name: ____________________  Candidate Signature: ____________________

Evaluator Name: ____________________  Evaluator Signature: ____________________

Notes (Please include comments/explanation for failure):
**Rope Rescue Operations: Belay a Falling Load**

**Item RO11**

**Reference:** NFPA 1006, 2021 Edition, Chapter 5, Job Performance Requirement 5.2.11.

**Evaluator Equipment Required:** Pre-Rigged Anchors, Pre-Rigged Main line (Raising or Lowering), KFRTI Drop Test Kit

**Candidate Equipment Required:** Helmet and Gloves

---

**Evaluator’s Instructions to Candidates**

At this station, you will belay a falling load, so that the belay line is not taut until the load is falling, the belay device actuates when the load falls, forces transmitted to the load are minimized, the belay device is utilized as designed, and the belay operator is not injured or incapacitated during actuation of the belay system.

This process will end once you indicate you are finished, or the maximum 10 minute time limit expires.

To pass this station you must successfully complete all 100% of the steps.

---

**Evaluation Matrix**

<table>
<thead>
<tr>
<th></th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Dons and uses hazard-specific PPE</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>2. Demonstrates the ability to operate a belay system as designed</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>3. Recognize and arrest a falling load</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. belay device actuates</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>b. fall arrest forces are minimized</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. belay device utilized as designed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. adhere to operating procedures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Communicates belay system status and actuation</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>5. Meet allowed time (10 minutes)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

---

**Date:** __________________________

**Station:** Pass [ ] Fail [ ]

**Candidate name:** __________________________

**Candidate Signature:** ________________

**Evaluator Name:** __________________________

**Evaluator Signature:** __________________________

**Notes (Please include comments/explanation for failure):** __________________________
**Rope Rescue Operations: Construct a Fixed Rope System**

**Item RO12**


**Evaluator Equipment Required:** Pre-Rigged Anchors, Rope, KFRTI Anchor bag, and KFRTI Rigging Bag

**Candidate Equipment Required:** None (Helmet and Gloves are optional)

---

**Evaluator’s Instructions to Candidates**

At this station, you will construct a fixed rope system capable of supporting a two-person rescue-sized load (600lbs) using the provided anchor. You may build the system using any method to meet the efficiency and load requirements. You will select the appropriate ropes and equipment from the cache provided and tie proper knots to rig the system. You will evaluate the system for compromised integrity and perform a system safety check.

This process will end once you indicate you are finished, or the maximum **10 minute** time limit expires. To pass this station, you must successfully complete all 100% of the steps.

---

**Evaluation Matrix**

<table>
<thead>
<tr>
<th><strong>Evaluation Matrix</strong></th>
<th><strong>1st Attempt</strong></th>
<th><strong>2nd Attempt</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pass</strong></td>
<td><strong>Fail</strong></td>
<td><strong>Pass</strong></td>
</tr>
</tbody>
</table>

1. Recognize system requirements based on setup and interference concerns
2. Recognize capabilities and limitations of various equipment
3. Select and use PPE
4. Select and build a fixed rope system that meets incident requirements
   a. Tie knots (RO4)
   b. Perform rigging
   c. Attach rope to the anchor system
   d. Rigging meets calculated expected load and incident requirements
5. Perform a system safety check (RO7)
6. Meet allowed time (**10 minutes**)
Rope Rescue Operations: Construct a Lowering System

Item RO13


Evaluator Equipment Required: Pre-Rigged Anchors, Rope, KFRTI Anchor Bag and KFRTI Rigging Bag
Candidate Equipment Required: None (Helmet and Gloves are optional)

Evaluator's Instructions to Candidates

At this station, you will construct a lowering system capable of supporting a two-person rescue-sized load (600lbs) using the provided anchor. You may build the lowering system using any method you select to meet load's requirements. The system must operate efficiently and hold the load in place as required. You shall select the appropriate equipment, tie proper knots, attach the lowering system to the load and the provided anchor, and conduct a safety check.

This process will end once you indicate you are finished, or the maximum **10 minute** time limit expires.

To pass this station, you must successfully complete all 100% of the steps.

Evaluation Matrix

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Select and Build a lowering system capable of lowering a rescue load</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td></td>
<td>a. Selects equipment and components</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. Tie knots (RO4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c. Perform rigging</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>d. Attach to anchor system</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>e. Attach to load</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>f. Attach to decent control device</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Perform a system safety check (RO7)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>3.</td>
<td>Meet allowed time <strong>(10 minutes)</strong></td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

**Note: Lowering Devices for Step 4 and Step 5:** Brake bar rack, CMC 3D, Conterra SCARAB, Figure 8 Descender, ID, Clutch, Maestro, MPD

<table>
<thead>
<tr>
<th>Question</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. <strong>ASK:</strong> Which device should not be used when there is a potential for a sudden increase in the load weight?</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>5. <strong>Ask:</strong> Which of these devices has an anti-panic feature?</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

Date: ____________________________  Station: Pass ☐ Fail ☐

Candidate name: ____________________________  Candidate Signature: ____________________________

Evaluator Name: ____________________________  Evaluator Signature: ____________________________

Notes (Please include comments/explanation for failure):

Revised: Jan 2023
**Rope Rescue Operations: Direct the Operation of a Lowering System in a High Angle Environment**


**Evaluator Equipment Required:** Pre-Rigged Anchors, Lowering system and Belay System, Rescue personnel, and Load

**Candidate Equipment Required:** Helmet and Gloves

---

### Evaluator’s Instructions to Candidates

At this station, you will direct a team in the operation of a lowering system in a high-angle environment. You will analyze the system for efficiency, ensure movement is controlled and the load can be held in place as required, and complete a system safety check prior to loading the system. During operations you will identify, communicate, and direct management of any safety concerns. The load will travel a minimum of 15 feet during operations.

This process will end once the evaluator indicates or the maximum **10 minute** time limit expires. To pass this station you must successfully complete all 100% of the steps.

### Evaluation Matrix

<table>
<thead>
<tr>
<th>Step</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Recognize the capabilities and limitations of various lowering systems</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td><strong>Ask:</strong> Does the lowering system meet the requirements for the incident?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Identify personnel assignments</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>3. Use operational commands</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>4. Manage movement of the load</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>5. Analyze system efficiency</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>6. Identify and manage safety concerns</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>7. Perform a system safety check (RO7)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>8. Meet allowed time (<strong>10 minutes</strong>)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

---

**Date:** ____________________  
**Station:** Pass ☐ Fail ☐  
**Candidate name:** ____________________  
**Candidate Signature:** ____________________  
**Evaluator Name:** ____________________  
**Evaluator Signature:** ____________________

**Notes (Please include comments/explanation for failure):**

---

Revised: Jan 2023
**Evaluator’s Instructions to Candidates**

**Part 1 of 2** At this station, you will construct a simple mechanical advantage system capable of meeting the rescue incident operational requirements. You will select the appropriate ropes and equipment from the cache provided, build the system, attach the system to the provided anchor and the load, and perform a system safety check. You will state the total MA of the completed system.

This process will end once you indicate you are finished, or the maximum 10 minute time limit expires.

To pass this station you must successfully complete all 100% of the steps.

**Evaluation Matrix**

**Scenario Conditions Part 1:** Open parking lot for operations and staging, Vehicle is over the edge of a 40° slope and located 120’ below. 4 Rescuers were lowered and 1 victim in a litter, 4 Haul team members.

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

1. System selected meets incident requirements
   a. Expected load vs Haul team capabilities
   b. Travel Distance vs Rope Length

2. Construct a rope simple mechanical advantage system
   a. Perform rigging
   b. Select and tie knots (RO4)
   c. Contains a progress capture device

3. Ask: What mechanical advantage system did you construct?
4. MA system attached to the anchor system and the load
5. Evaluate system for efficiency, compromised integrity, and interference concerns
6. Perform a system safety check
7. Meet allowed time (10 minutes)

8. Ask: Explain the relationship between the forces produced to the amount of rope that must pass through the mechanical advantage systems.
**Evaluator's Instructions to Candidates**

*(Part 2 of 2)* At this station, you will construct a compound mechanical advantage system capable of meeting the rescue incident operational requirements. Two more rescuers are requested to assist with the litter operation, now leaving you with only 3 haul team members. You have 15 minutes to evaluate the new operational conditions and MA system in place and implement any required system changes. You will state the total MA of the completed system.

This process will end once you indicate you are finished, or the maximum **10 minute** time limit expires.

To pass this station you must successfully complete all 100% of the steps.

### Evaluation Matrix

**Scenario Conditions Part 2**: Open parking lot for operations and staging, Vehicle is over the edge of a 40° slope and located 120’ below, 6 Rescuers lowered and 1 victim in a litter, 3 Haul team members. (Changes from Part 1: 2 more rescuers are request as litter tenders, Haul team loses 1 member) *(Part 1 - RO15)*

<table>
<thead>
<tr>
<th></th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

1. System selected meets incident requirements
   a. Expected load vs Haul team capabilities
   b. Travel Distance vs Rope Length
2. Construct a rope simple mechanical advantage system
   a. Select equipment and tie knots
   b. Perform rigging
   c. System contains a progress capture device
3. **Ask**: What mechanical advantage system did you construct?
4. MA system attached to the anchor system and the load
5. Evaluate system for efficiency, compromised integrity, and interference concerns
6. Perform a system safety check (RO7)
7. Meet allowed time (**10 minutes**)
8. **Ask**: Describe a method to increase the lifting capacity of a limited member haul team.

---

**Date:** __________________________  **Station:**  **Pass** [ ]  **Fail** [ ]

**Candidate name:** __________________________  **Candidate Signature:** __________________________

**Evaluator Name:** __________________________  **Evaluator Signature:** __________________________

**Notes (Please include comments/explanation for failure):**

---

Revised: Jan 2023
Evaluator Equipment Required: Pre-Rigged Anchors, Simple Mechanical Advantage system and Belay System, Rescue personnel, Load to be moved.
Candidate Equipment Required: Helmet and Gloves

Evaluator's Instructions to Candidates

At this station, you will direct a team in the operation of a simple mechanical advantage system during a high angle raising operation. You will analyze the system for efficiency, ensure movement is controlled and the load can be held in place as required, and complete a system safety check prior to loading the system. During operations you will identify, communicate, and direct management of any safety concerns. The load will move a minimum of 15 feet, and at least one system reset will be performed.

This process will end once you indicate you are finished, or the maximum 15 minute time limit expires.
To pass this station you must successfully complete all 100% of the steps.

Evaluation Matrix

1. Recognize the capabilities and limitations of various rope mechanical advantage systems
   - Ask: Does the mechanical advantage system meet the requirements for the incident?

2. Identify personnel assignments
3. Use operational commands
4. Direct personnel effectively
5. Manage movement of the load and system reset
6. Analyze system efficiency
7. Identify and manage safety concerns
8. Perform a system safety check (RO7)
9. Meet allowed time (15 minutes)

Date: _______________________
Station: Pass [ ] Fail [ ]
Candidate name: _______________________
Candidate Signature: _______________________
Evaluator Name: _______________________
Evaluator Signature: _______________________

Notes (Please include comments/explanation for failure):

Revised: Jan 2023
Rope Rescue Operations: Direct the Operation of a Compound Mechanical Advantage System in a High Angle Environment


**Evaluator Equipment Required:** Pre-Rigged Anchors, Compound Mechanical Advantage system and Belay System, Rescue personnel, Load to be moved.

**Candidate Equipment Required:** Helmet and Gloves

**Evaluator's Instructions to Candidates**

At this station, you will direct a team in the operation of a compound mechanical advantage system during a high angle raising operation. You will analyze the system for efficiency, ensure movement is controlled and the load can be held in place as required, and complete a system safety check prior to loading the system. During operations you will identify, communicate, and direct management of any safety concerns. The load will move a minimum of 15 feet, and at least one system reset will be performed.

This process will end once you indicate you are finished, or the maximum 15 minute time limit expires. To pass this station you must successfully complete all 100% of the steps.

### Evaluation Matrix

<table>
<thead>
<tr>
<th></th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Recognize the capabilities and limitations of various rope mechanical advantage systems</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td><strong>Ask:</strong> Does the mechanical advantage system meet the requirements for the incident?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Identify personnel assignments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Use operational commands</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Direct personnel effectively</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Manage movement of the load and system reset</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Analyze system efficiency</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>a. Ask:</strong> What could be changed to increase the system's efficiency?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Identify and manage safety concerns</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>a. Interference concerns</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>b. Compromised integrity of system components</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>c. Potential system overloading</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Perform a system safety check (RO7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Meet allowed time (15 minutes)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Date:** ____________________________  **Station:** Pass | Fail

**Candidate name:** ____________________________________________  **Candidate Signature:** _________________________________

**Evaluator Name:** ____________________________________________  **Evaluator Signature:** _________________________________

**Notes (Please include comments/explanation for failure):**

---

Revised: Jan 2023
Rope Rescue Operations: Negotiate an edge


Evaluator Equipment Required: A pre-rigged anchor system, a pre-rigged anchor and rope rescue system (e.g., haul/lowering, and belay), KFRTI Anchor Bag, and KFRTI Rigging Bag.

Candidate Equipment Required: Personal Protective Equipment (Helmet and Gloves)

Evaluator’s Instructions to Candidates

At this station, you will negotiate an edge while attached to a rope rescue system during a high-angle lowering and raising operation. You will select the proper PPE, to minimize risk, and securely attach to the rope rescue systems. While negotiating the edge, you will evaluate the surroundings for potential hazards, and verbally state identified hazards.

This process will end once you indicate you are finished, or the maximum 10 minute time limit expires.

To pass this station you must successfully complete all 100% of the steps.

Evaluation Matrix

<table>
<thead>
<tr>
<th>Step</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Select and use rescuer harness and PPE for common environments</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>2. Attach the life safety harness to the rope rescue system</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

Note: Time limit starts once connected into the rope system and safety inspected

3. Maneuver across an edge transition while minimizing risk
   a. Ground-level edge (e.g., roof edge, cliff edge)
   b. Elevated edge (e.g., window ledge)

4. Evaluate and identify surroundings for potential hazards | Pass | Fail | Pass | Fail |

5. Meet allowed time (10 minutes) | Pass | Fail | Pass | Fail |

Date: __________________________  Candidate name: __________________________  Candidate Signature: __________________________

Evaluator Name: __________________________  Evaluator Signature: __________________________

Notes (Please include comments/explanation for failure):

Revised: Jan 2023
Rope Rescue Operations: Prepare for Transfer of Victims


Evaluator Equipment Required: Victim diagnostic equipment, Victim packaging equipment, Scenario
Candidate Equipment Required: Personal Protective Equipment (Helmet and Gloves)

Evaluator’s Instructions to Candidates

At this station, as a rescue team member, you will prepare for transfer of victims to an EMS provider. You will select and use an appropriate victim packaging device to prepare and transport the victim from an area of harm to a safe area and EMS provider care. Rescuers and victims will be protected from hazards and further harm, while managing victim injuries or illnesses. Victim care will be transferred to the EMS providers with relay information regarding the history of rescue activity and victim conditions.

This process will end once you indicate you are finished, or the maximum 20-minute time limit expires.

To pass this station you must successfully complete all 100% of the steps.

Evaluation Matrix

<table>
<thead>
<tr>
<th>Step</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Select specialized victim packaging equipment</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>2. Use specialized victim packaging equipment</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>3. Transport victims from harmful situation to EMS care</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>4. Protect victims from further harm or injuries</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>5. Relay information regarding history of rescue activity, victim condition, and transfer care to EMS providers.</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>6. Meet allowed time (20-minutes)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

Date: __________________________

Candidate name: __________________________

Candidate Signature: __________________________

Evaluator Name: __________________________

Evaluator Signature: __________________________

Notes (Please include comments/explanation for failure):

Revised: Jan 2023
Rope Rescue Operations: Direct a Litter Lowering and Litter Raising Operation in a Low Angle Environment

Evaluator Equipment Required: Anchors, Ropes, KFRTI Anchor Bag, KFRTI Rigging Bag, 3-6 Litter tenders, Litter, Victim
Candidate Equipment Required: Helmet and Gloves

Evaluator’s Instructions to Candidates
At this station, you will direct a team in a litter lowering and litter raising operation in a low-angle environment. You will select the rope rescue systems to be used and analyze the systems for efficiency. Litter and tender movement must be always controlled and held in place when required. A system safety check must be completed prior to loading the rope systems. During operations you will identify, communicate, and direct management of any safety concerns. The load will travel a minimum of 15 feet, on each system during operations.

This process will end once you indicate you are finished, or the maximum 30 minute time limit expires.
To pass this station you must successfully complete all 100% of the steps.

Evaluation Matrix

1. Recognize the capabilities and limitations of various lowering systems
   Ask: Does the lowering system meet the requirements for the incident?

2. Recognize the capabilities and limitations of various rope mechanical advantage systems
   Ask: Does the mechanical advantage system meet the requirements for the incident?

3. Recognize the capabilities and limitations of litter tender functions
   Ask: Does the number of litter tenders and their capabilities meet the requirements for the incident?

4. Direct operation of a litter lowering and litter raising operation
   a. Identify personnel assignments
   b. Use operational commands
   c. Identify any safety concerns
   d. Manage movement of the litter and litter tenders

5. Analyze system efficiency

6. Perform a system safety check (RO7)

7. Meet allowed time (30-minutes)

Date: ___________________________  Station:  Pass ☐  Fail ☐

Candidate name: ___________________________  Candidate Signature: ___________________________

Evaluator Name: ___________________________  Evaluator Signature: ___________________________

Notes (Please include comments/explanation for failure):

Revised: Jan 2023
**Rope Rescue Operations: Operate as a Litter Tender in a Low Angle Lowering and Litter Raising Operation**

**Item RO22**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluator Equipment Required:</td>
<td>Anchors, Ropes, KFRTI Anchor Bag, KFRTI Rigging Bag, 2-5 Litter tenders, Litter, Victim</td>
</tr>
<tr>
<td>Candidate Equipment Required:</td>
<td>Helmet and Gloves</td>
</tr>
</tbody>
</table>

**Evaluator’s Instructions to Candidates**

At this station, as a litter tender team member, you will manage litter movement while negotiating a low-angle environment during a lowering or raising system operation. You will select an appropriate harness, PPE, and litter, and secure yourself to the rope rescue system and litter per the operational requirements. While maneuvering across the terrain, you will manage litter movement and follow operational commands, while minimizing risks to victims and rescuers. You will evaluate the surroundings for potential hazards, and verbally state identified hazards.

This process will end once you indicate you are finished, or the maximum 15-minute time limit expires. To pass this station you must successfully complete all 100% of the steps.

<table>
<thead>
<tr>
<th>Evaluation Matrix</th>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass</td>
<td>Fail</td>
<td>Pass</td>
</tr>
</tbody>
</table>

1. Select and use rescue harness & PPE for common environments
2. Select and use rescue litter
3. Attach the life safety harness and litter to the rope rescue system
4. Maneuver across terrain while suspended from the rope rescue system
   a. Manage movement of the litter
   b. Follows operational commands
   c. Minimize risk to rescuers and victim
5. Evaluate and identify surroundings for potential hazards
6. Meet allowed time (15-minutes)

---

**Date:** ______________________  
**Station:** Pass ☐  Fail ☐

**Candidate name:** ______________________  
**Candidate Signature:** ______________________

**Evaluator Name:** ______________________  
**Evaluator Signature:** ______________________

**Notes (Please include comments/explanation for failure):**

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Revised: Jan 2023
Rope Rescue Operations: Direct a litter lowering or raising operation in a high angle environment

Item RO23

Evaluator Equipment Required: Anchors, Ropes, KFRTI Anchor Bag, KFRTI Rigging Bag, Litter with victim
Candidate Equipment Required: Helmet and Gloves

Evaluator’s Instructions to Candidates
At this station, you will direct a team in a litter lowering or litter raising operation in a high-angle environment. You will select the rope rescue system to be used and analyze the system for efficiency. Litter movement must be controlled, with taglines, and held in place when required. A system safety check must be completed prior to loading the rope systems. During operations you will identify, communicate, and direct management of any safety concerns. The load will travel a minimum of 15 feet during operations.

This process will end once you indicate you are finished, or the maximum 30 minute time limit expires.
To pass this station you must successfully complete all 100% of the steps.

Evaluation Matrix

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

1. Recognize the capabilities and limitations of various lowering systems or various rope mechanical advantage systems.
   **Ask:** Does the lowering system meet the requirements for the incident?
   **Ask:** Does the mechanical advantage system meet the requirements for the incident?

2. **Ask:** Explain the method you would utilize to control a litter when a litter tender is unavailable.

3. Direct the operation of a litter lowering or litter raising operation
   a. Identify personnel assignments
   b. Use operational commands
   c. Identify any safety concerns
   d. Manage movement of the litter with taglines
   e. Edge is negotiated

4. Analyze system efficiency

5. Perform a system safety check (RO7)

6. Meet allowed time (30-minutes)

Date: ___________________________  Station:  Pass [ ]  Fail [ ]

Candidate name: ___________________________  Candidate Signature: ___________________________

Evaluator Name: ___________________________  Evaluator Signature: ___________________________

Notes (Please include comments/explanation for failure):

Revised: Jan 2023
Rope Rescue Operations: Terminate a Technical Rescue Operation


Evaluator Equipment Required: Incident Scenario, Rescue personnel, accountability system, site control barriers, ICS Forms, clipboard, pen, and paper.

Candidate Equipment Required: Helmet and Gloves

Evaluator’s Instructions to Candidates

At this station, acting as the rescue officer, you will terminate a technical rescue incident and transfer control of the scene to the responsible party (evaluator). Utilizing a final hazard analysis and risk assessment, you will inform the responsible party of the remaining hazards, and scene security measures managed. You will ensure that personnel and equipment are assessed and accounted for and returned to a state of readiness. You will conduct a post event analysis and complete appropriate documentation to conclude the incident.

This process will end once you indicate you are finished, or the maximum 20-minute time limit expires.

To pass this station you must successfully complete all 100% of the steps.

Evaluation Matrix

1. Utilizes incident command functions and resources
2. Utilizes a hazards analysis and risk assessment
3. Recognize and implement site control equipment and methods
4. Inform responsible party
   a. remaining hazards
   b. implemented scene security measures
5. Incident resource management
   a. accountability of personnel
   b. accountability of equipment
6. Conducts a post event analysis
7. Complete documentation
8. Meet allowed time (20-minutes)

Date: ___________________________  Station: Pass [ ] Fail [ ]

Candidate name: ___________________________  Candidate Signature: ___________________________

Evaluator Name: ___________________________  Evaluator Signature: ___________________________

Notes (Please include comments/explanation for failure):