



Confined Space Rescue
Technician I
National Certification

Certification Preparation Guide

Referenced to:

NFPA 1006, Chapter 7, 2013 Edition

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NFPA 1006, Chapter 7, 2013 Edition

Kansas Fire & Rescue Training Institute (KFRTI-ITR)
Introduction to Technical Rescue: Supplemental Reading, July 2021

Kansas Fire & Rescue Training Institute (KFRTI)
Monitoring and pH Scale: Supplemental Reading, 2018

CMC Rescue Inc. (CMC-CS)
Confined Space: Entry and Rescue Manual, Revised 2nd Edition, 2013

CMC Rescue Inc. (CMC-Rope)
Rope Rescue Manual, 6th Edition, 2021

Copies of this document may be downloaded from: <https://kupce.ku.edu/kufire-firefighter-certification>

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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 (IFSAAC) and by the National Board on Fire Service Professional Qualifications (NBFSPQ - 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, 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 was specifically designed to help you prepare for the examination process ahead. This guide gives reading references for the written exam and the skills exam. By using this guide, you will be looking at the same pages the test writer was looking 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 in that state.

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 service 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 action.

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

The University of Kansas prohibits discrimination. Specifically, the University of Kansas prohibits discrimination on the basis of 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 specifically designed to help you prepare for the examination process ahead. 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 credential that is Fire Service National Certification. 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 National Standard requirements 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), 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 take you back 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 any of 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 certification level 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 in advance of 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 proposed accommodations requestor.

What if I Fail the Exam?

Failure of any required component (not submitting a currently valid certification or licensure KBEMS number, less than 70% on the written exam or less than 100% of the skills exam) constitutes a failed attempt.

- a. Candidates may retest on any exam component (written or skills exams) and resubmit current and valid KBEMS medical credentials.
- b. Candidates must register to take a retest at another test site. No walk-in testing is allowed. To register for a retest, call the Institute at (toll-free) 866-804-8841.
- c. Candidates are allowed two (2) attempts at any portion of the exam. If a candidate fails any portion of the exam twice, a new application and fee are required. The new application starts the certification process over, and all testing portions 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 will be required to submit a new application, new fee, and new verification forms to retest for the written and skills tests before certification.

Kansas Fire & Rescue Training Institute's Certification Requirements for Confined Space Rescue Technician I

Kansas Board of Emergency Medical Services Certification

All candidates are required to have a current certification for Emergency Medical Responder, Emergency Medical Technician, Advanced Emergency Medical Technician, or Paramedic issued by the Kansas Board of Emergency Medical Services (KBEMS).

Certifications from other entities will be evaluated for reciprocity as per the KFRTI's Reciprocity policy. Those candidates without such certification can complete written and skills testing for NFPA 1006, Chapter 5 (Introduction to Technical Rescue). Qualification in NFPA 1006, Chapter 5, will be issued only after proof of the required medical credentials is provided and verified. Once Qualification is issued, candidates may proceed on with testing in other NFPA 1006 disciplines and levels.

Prerequisites

All candidates are required to have successfully completed the written and skills testing for NFPA 1006, Chapter 5 (Introduction to Technical Rescue), and have a completed Confined Space Rescue Technician Level I & II Local Verification & Mask Fit form before testing for NFPA 1006, Chapter 7.1 (Confined Space Rescue Technician – Level I) national certification. Certifications from other entities will be evaluated for reciprocity as per the KFRTI's Reciprocity policy.

Confined Space Rescue Technician I- Certification Exam

Written Exam:

- a. The Confined Space Rescue Technician I Written Exam includes 50 multiple choice and true/false questions.
- b. Candidates are allowed one (1) hour to complete the exam.
- c. Answer sheets and pencils are provided. "Bubble Sheet" answer sheets that candidates fill in small circles to indicate answers (a, b, c, d) as the correct answer is used.
- d. No cell phones, radios, or other electronic devices are allowed in the room while an exam is being administered (an exception for radios that allow "on-duty" personnel to receive alarms may be granted under special circumstances).
- e. A 70% minimum score is required to pass the written exam.

Skills Exam:

- a. 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.
- b. Teams of 4 to 6 candidates are formed for skills testing. Individual candidates may not pre-select crews or makeup crews of their own choosing. The Exam Coordinator appoints teams (for testing purposes) at the test site.
- c. When testing as a member of a team, evaluation includes both individual performance and performance as a member of the team.
- d. Skills Exams typically include 2 to 3 stations. Each station may include multiple skills. All Confined Space Rescue Technician-I Skills Exams will include all seven (7) skills.
- e. Skills marked "Test Item Conducted by the Kansas Board of EMS" are waived with a current valid KBEMS licensure number.
- f. 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.
- g. Skills exams require 100% to pass in all stations.
- h. No same-day skills retest allowed.

**Confined Space Rescue Technician I - Written Exam
Study/Preparation Information and Materials**

- Confined Space I Written Exam:** 50 multiple choice and true/false questions.
Time allowed to take exam: One (1) hour.
Passing Score: 70% (or higher)

Answer sheets and pencils are provided. "Bubble Sheet" answer sheets that candidates fill in small circles to indicate answers (a, b, c, d) as the correct answer 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 allow "on-duty" personnel to receive alarms may be granted under special circumstances).

Reading Reference/Text

The Confined Space Rescue Technician I written exam is referenced to four (4) documents. The first document is the supplemental guide produced by Kansas Fire & Rescue Training Institute (KFRTI).

(KFRTI-ITR) - *KFRTI, Introduction to Technical Rescue: Supplemental Reading, July 2021*

(KFRTI-pH) - *KFRTI, Monitoring and pH Scale: Supplemental Reading, 2018*

(CMC-CS) - *CMC Rescue Inc., Confined Space: Entry and Rescue Manual, Revised 2nd Edition, 2013*

(CMC-Rope) - *CMC Rescue Inc., Rope Rescue Manual, 6th Edition, 2021*

National Standard test is based on: *NFPA 1006 Standard for Technical Rescuer Professional Qualifications, 2013 Edition*

**Written Exam Study Pages
(Test questions are taken from these same pages)**

Section Subject &

NFPA 1006, Confined Space Rescue
(Chapter 7) JPR Number

Reading/Study Pages

7.1 Level I – General Requirements

Direct a team in the operation of a simple rope mechanical advantage system in a high-angle raising operation. (TIA – ROPE 1)

6.1.1

(CMC-CS) Pages: 9-5 to 9-15, 9-31 to 9-38, 11-2 to 11-8
(CMC-Rope) Pages: 42-49, 53-58, 83-97, 100-112, 114-118,
150-155, 168-173, 175-181, 269-274,
305-307, 322-324, 396-419

Written Exam Study Pages
(Test questions are taken from these same pages)

Section Subject &
NFPA 1006, Rope Rescue
(Chapter 7) JPR Number

Reading/Study Pages

Direct a lowering operation in a high-angle environment. (TIA – ROPE 1)

6.1.2

(CMC-CS) Pages: 42-53, 83-97, 100-112, 150-155, 162-165,
269-274, 305-307, 322-324, 396-419

(CMC-Rope) Pages: 51-61, 138-144, 146-152, 290-291, 362-380

Conduct monitoring of the environment.

7.1.1

(CMC-CS) Pages: 3-2 to 3-18, 4-2 to 4-17, 5-2 to 5-19,
6-2 to 6-16, 13-1 to 13-26

Prepare for entry into a confined space.

7.1.2

(CMC-CS) Pages: 3-2 to 3-18, 4-2 to 4-17, 5-2 to 5-19,
6-24 to 6-26, 8-11 to 8-19, 9-29 to 9-33,
13-1 to 13-26

(KFRTI-pH) Pages: 1-3

Enter a confined space.

7.1.3

(CMC-CS) Pages: 3-2 to 3-18, 4-2 to 4-17, 5-2 to 5-19,
6-2 to 6-24, 7-5 to 7-12, 8-11 to 8-19,
9-5 to 9-13, 11-2 to 11-8, 12-2 to 12-7,
13-1 to 13-26

(KFRTI-pH) Pages: 1-3

Package a victim for removal from a confined space.

7.1.4

(CMC-CS) Pages: 4-2 to 4-12, 9-7, 9-12 to 9-14

(KFRTI-pH) Pages: 1-3

Remove all entrants from a confined space

7.1.5

(CMC-CS) Pages: 3-2 to 3-8, 4-2 to 4-17, 5-2 to 5-19,
6-23 to 6-26, 7-2 to 7-12, 8-11 to 8-19,
9-5 to 9-42, 10-7 to 10-12, 13-1 to 13-26

(KFRTI-pH) Pages: 1-3

(KFRTI-ITR) Pages: 21-22

***Confined Space Rescue Technician I Skills Exam
Study/Preparation Information and Materials***

**Confined Space Rescue
Technician I 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 crews or makeup crews of their own choosing. The Exam Coordinator appoints teams (for testing purposes) at the test site.

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

Skills Exams typically include 2 to 3 stations. Each station may include multiple skills. All Confined Space Rescue Technician I Skills Exams will include all seven (7) skills.

Time allowed to take exam:

The overall 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 allow “on-duty” personnel to receive alarms may be granted under special circumstances).

Reading Reference/Text

The Confined Space Rescue Technician skills exam is referenced to:

(KFRTI-ITR) - Introduction to Technical Rescue Supplemental Reading, July 2019

(KFRTI-pH) - KFRTI, Monitoring and pH Scale: Supplemental Reading, 2018

(CMC-CS) - CMC Rescue Inc., Confined Space: Entry and Rescue Manual, Revised 2nd edition, 2013

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

National Standard test is based on:

NFPA 1006 Standard for Technical Rescuer Professional Qualifications, 2013 Edition

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Confined Space Rescue Technician: Level I Skill Evaluation Sheets

These Skills Evaluation Sheets are the exact grading sheets that evaluators use during the Skills Test. These sheets have been edited for the explicit use of grading skills 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 100% of the steps listed on these sheets to be performed. You will not be evaluated on steps of the skills that are not listed on these evaluation sheets.