



Confined Space Rescue  
Technician II  
National Certification

Certification Preparation Guide

Referenced to:

NFPA 1006, Chapter 7, 2013 Edition

Referenced to:

NFPA 1006, Chapter 7, 2013 Edition

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 2<sup>nd</sup> Edition, 2013

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 (IFSAC) 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**

This 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 act.

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 that will help you achieve the professional credential that is Fire Service National Certification. There are a few key 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 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 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 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 advanced 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 then notify the requestor of the proposed accommodations.

### 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.

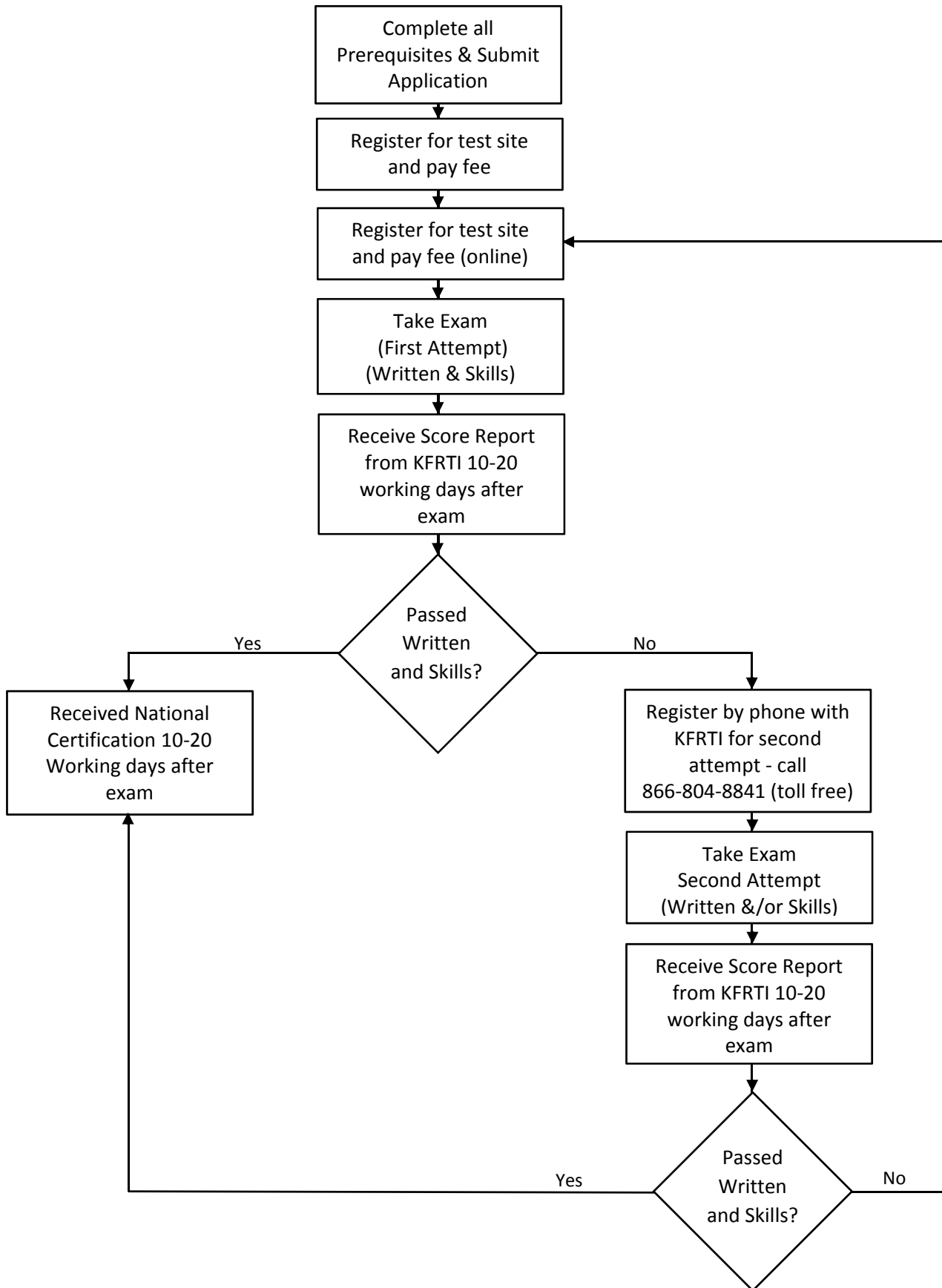
- a. Candidates may re-test on any component of the exam (written, or skills exams) and resubmit current and valid KBEMS medical credentials.
- b. Candidates must register to take a retest at another test site. No walk-in testing is allowed. To register for a retest, call the Institute at (toll free) 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 is required. 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 will be required to submit a new application, new fee, and new verification forms retest for the written and skills tests before certification.

## Confined Space Rescue Technician II - Certification Process/Sequence

This list illustrates a “classic” process. All requirements must be satisfactorily completed, the exact sequence is not required.



## **Kansas Fire & Rescue Training Institute's Certification Requirements for Confined Space Rescue Technician II**

### **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.

### **Prerequisites**

All candidates are required to have successfully completed the written and skills testing for NFPA 1006, Chapter 5 (Introduction to Technical Rescue), NFPA 1006, Chapter 7.1 (Confined Space Rescue Technician – Level I), and have a completed Confined Space Rescue Technician Level I & II Local Verification & Mask Fit form, prior to testing for NFPA 1006, Chapter 7.2 (Confined Space Rescue Technician – Level II) national certification. Certifications from other entities will be evaluated for reciprocity as per the KFRTI's Reciprocity policy.

### **Confined Space Rescue Technician II - Certification Exam**

#### **Written Exam:**

- a. The Confined Space Rescue Technician II 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 answer (a, b, c, d) as the correct answer are 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 the purpose of skills testing. Individual candidates may not pre-select crews or make up crews of their own choosing. Teams (for testing purposes) are appointed by the Exam Coordinator at the test site.
- c. When testing a member of a team, evaluation includes both individual performance and performance as a member of the team.
- d. Skills Exams typically include 1 or 2 stations. Each station may include multiple skills. All Confined Space Rescue Technician II Skills Exams will include no fewer than two (2) skills total.
- 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 re-test allowed.



**Project:**

All candidates must successfully complete and submit to KFRTI a Confined Space Preplan as required by JPR 7.2.1 and listed at Performance Test Item 7-6, Preplan a Confined Space of this study guide. Candidates must complete and submit a satisfactory preplan within **one (1) calendar year** of the date of the written examination. Failure to do so will result in a failure. Candidates will be given one (1) year from the date of the written examination, and a maximum of two (2) attempts, to successfully complete this project.

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

**Confined Space II 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 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 allow "on-duty" personnel to receive alarms may be granted under special circumstances).

**Reading Reference/Text**

The Confined Space Rescue Technician II written exam is referenced to two (2) documents. The first document is the supplemental guide produced by Kansas Fire & Rescue Training Institute (KFRTI).

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

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

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

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

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

Reading/Study Pages

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7.2 Level 2 – General Requirements

Preplan a confined space incident.  
7.2.1

(CMC) Pages: 1-10 to 1-11, 3-2 to 3-18, 4-2 to 4-12,  
5-13 to 5-19, 6-2 to 6-16, 8-2 to 8-19,  
10-2 to 10-6, 10-10 to 10-12, 13-1 to 13-26

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

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Section Subject &  
NFPA 1006, Rope Rescue  
(Chapter 6) JPR Number

Reading/Study Pages

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Assess the incident.

7.2.2

(CMC) Pages: 3-2 to 3-18, 4-2 to 4-17, 5-2 to 5-10,  
5-13 to 5-19, 6-2 to 6-16, 7-2 to 7-12,  
8-2 to 8-19, 9-5 to 9-14, 9-36 to 9-39,  
9-43 to 9-48, 10-2 to 10-12, 13-1 to 13-26  
(KFRTI) Pages: 1-3

Control hazards.

7.2.3

(CMC) Pages: 3-2 to 3-18, 4-2 to 4-17, 5-2 to 5-5,  
5-14 to 5-19, 6-2 to 6-23, 7-2 to 7-12,  
9-5 to 9-14, 9-36 to 9-39, 10-10 to 10-12,  
13-1 to 13-26  
(KFRTI) Pages: 1-3

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

**Confined Space Rescue  
Technician II 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 make up crews of their own choosing. Teams (for testing purposes) are appointed by the Exam Coordinator 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 1 or 2 stations. Each station may include multiple skills. All Confined Space Rescue Technician II Skills Exams will include two (2) skills total. Additionally, all candidates must successfully complete and submit a Confined Space Preplan as required by JPR 7.2.1 and listed at Performance Test Item 7-6, Preplan a Confined Space of this study guide.

**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-II (KFRTI) - *Monitoring and pH Scale: Supplemental Reading, 2018* skills exam is referenced to: *(CMC) - CMC Rescue Inc., Confined Space: Entry and Rescue Manual, Revised 2<sup>nd</sup> Edition, 2013*

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 II 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 be performed. You will not be evaluated on steps of the skills that are not listed on these evaluation sheets.



# Confined Space Rescue Technician Level II: Preplan a Confined Space

Item 7-8

## \*Additional Project\*

**Reference:** NFPA 1006, 2013 Edition, Chapter 7, Job Performance Requirement 7.2.1  
CMC Rescue, Confined Space Entry and Rescue Manual, Revised 2nd Edition.

**Evaluator Equipment Required:** Blank Packet for Confined Space Preincident Plan

**Candidate Equipment Required:** Helmet, Boots, Gloves, and other PPE appropriate for the environment, Actual Confined Space, Monitoring Equipment, Measuring Equipment, Drawing Equipment & Blank Forms.

### Evaluator's Instructions to Candidates

At this station, as a take home project, you will preplan a confined space in your jurisdiction such that a safe, standard approach is used during a confined space rescue emergency. You must recognize, identify, and document all hazards in the space. You must identify and document all isolation methods in the space. You must identify and document all accesses to the location of the entry openings to the space. You must identify, categorize, and document all openings to the space. You must describe and document all internal configurations of the space. You must identify and document all special resources that may be required to conduct a rescue from the space.

You must complete this station **one (1) calendar year** from the date of the first written portion of Confined Space Rescue Technician Level 2 certification test.

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

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Select & use specific preplan forms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Draw or draft a sketch of the confined space.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Complete supplied forms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Identify and evaluate:				
a. Configurations of the space.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Access points.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Entry openings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Isolation procedures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Energy control locations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Recognize general & site-specific hazards.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Document all data.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Apply all regulatory compliance references.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Candidate's name:** \_\_\_\_\_

**Station:** Pass  Fail

Notes (please include comments/explanation for failure):

**Evaluator's Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_



Reference: NFPA 1006, 2013 Edition, Chapter 7, Job Performance Requirement 7.2.2 CMC Rescue, Confined Space Entry and Rescue Manual, Revised 2nd Edition.

Evaluator Equipment Required: Confined space. Ropes, pulleys, carabineers, rope grab devices (prusiks) webbing, and other auxiliary rope rescue equipment. SCBA or SAR system as appropriate. Appropriate victim evacuation litter(s).

Candidate Equipment Required: Helmet, Boots, and Gloves

Evaluator's Instructions to Candidates

In this station you will assess a confined space incident. You will be provided with a preplan of the space or size-up information as well as information from technical resources, monitoring equipment, and necessary PPE to conduct such an assessment. You must identify general area and site-specific hazards. You must interview witnesses, victims, and bystanders. You must initiate and maintain monitoring of the space. You must determine (as best the situation allows) the number, condition, and location(s) of the victim(s). You must conduct a risk-benefit analysis. You must identify and control means of ingress and egress for rescuers and victims. You must determine rescue systems to be used for victim removal. Finally, you must determine emergency means of retrieval for rescue entrants

The skill will end when you state or indicate to the evaluator that you have completed all identified steps.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

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

Evaluated Skill Items

Table with 4 columns: Skill Item, 1st Attempt Pass, 1st Attempt Fail, 2nd Attempt Pass, 2nd Attempt Fail. Contains 9 skill items for evaluation.

Candidate's name: \_\_\_\_\_

Station: Pass [ ] Fail [ ]

Notes (please include comments/explanation for failure):

Evaluator's Signature: \_\_\_\_\_

Date: \_\_\_\_\_



Reference: NFPA 1006, 2013 Edition, Chapter 7, Job Performance Requirement 7.2.3 CMC Rescue, Confined Space Entry and Rescue Manual, Revised 2nd Edition.

Evaluator Equipment Required: Actual Confined Space, Monitoring Equipment, Measuring Equipment, Drawing Equipment & Blank Forms.

Candidate Equipment Required: Helmet, Boots, and Gloves

Evaluator's Instructions to Candidates

In this station you will be required to control the hazards in a confined space rescue incident. You must establish and control the incident control zones (hot, warm, cold); ensure that rescuers are protected from:

- Possible exposure to hazardous materials and atmospheres;
- All forms of harmful energy releases;
- All physical hazards.

You must also ensure that victims are protected from any further harm.

The skill will end when you state or indicate to the evaluator that you have completed all identified steps.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

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

Evaluated Skill Items

Table with 5 rows of skill items and 4 columns for 1st and 2nd attempt Pass/Fail results.

Candidate's name: \_\_\_\_\_

Station: Pass [ ]

Fail [ ]

Notes (please include comments/explanation for failure):

Evaluator's Signature:

Date:





# Confined Space Preincident Plan Packet

- Use the Confined Space Preincident Survey Forms on the following pages to complete the project.
- Use as many photograph forms as required to document the confined space being pre-planned.

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# Confined Space Rescue Technician Level II: Preplan a Confined Space

Item 7-8

## \*Additional Project\*

**Reference:** NFPA 1006, 2013 Edition, Chapter 7, Job Performance Requirement 7.2.1  
CMC Rescue, Confined Space Entry and Rescue Manual, Revised 2nd Edition.

**Evaluator Equipment Required:** Blank Packet for Confined Space Preincident Plan

**Candidate Equipment Required:** Helmet, Boots, Gloves, and other PPE appropriate for the environment, Actual Confined Space, Monitoring Equipment, Measuring Equipment, Drawing Equipment & Blank Forms.

### Evaluator's Instructions to Candidates

At this station, as a take home project, you will preplan a confined space in your jurisdiction such that a safe, standard approach is used during a confined space rescue emergency. You must recognize, identify, and document all hazards in the space. You must identify and document all isolation methods in the space. You must identify and document all accesses to the location of the entry openings to the space. You must identify, categorize, and document all openings to the space. You must describe and document all internal configurations of the space. You must identify and document all special resources that may be required to conduct a rescue from the space.

You must complete this station **one (1) calendar year** from the date of the first written portion of Confined Space Rescue Technician Level 2 certification test.

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

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Select & use specific preplan forms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Draw or draft a sketch of the confined space.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Complete supplied forms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Identify and evaluate:				
a. Configurations of the space.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Access points.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Entry openings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Isolation procedures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Energy control locations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Recognize general & site-specific hazards.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Document all data.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Apply all regulatory compliance references.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Candidate's name:** \_\_\_\_\_

**Station:** Pass  Fail

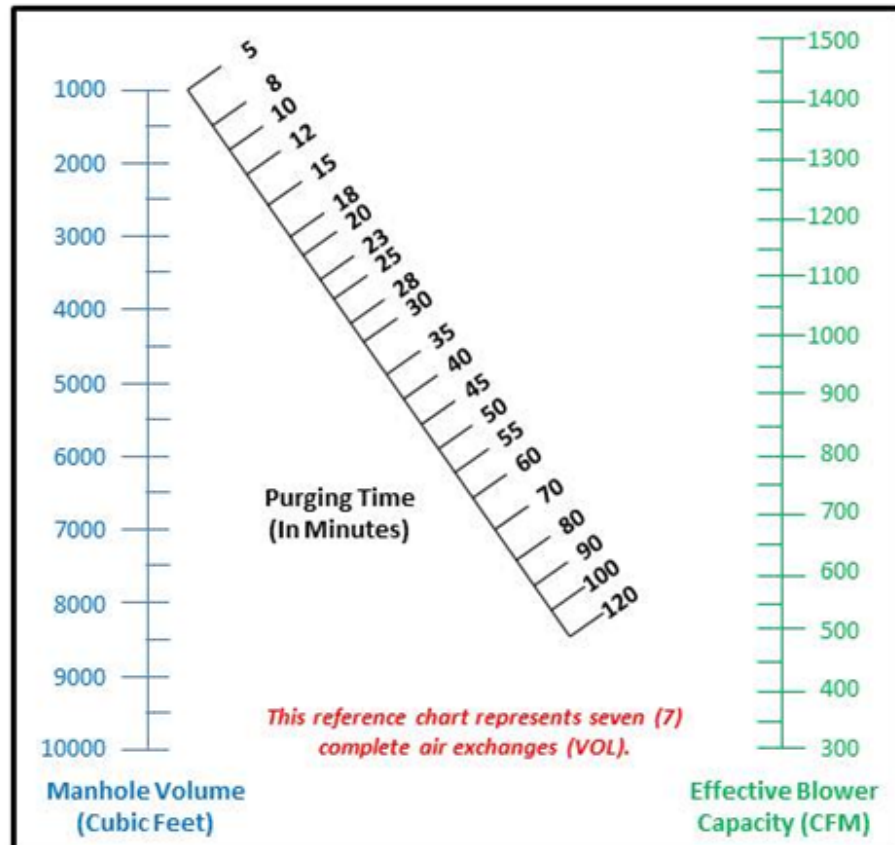
Notes (please include comments/explanation for failure):

**Evaluator's Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_



# Confined Space Purging Chart



## Use of Confined Space Purging Chart

1. Place straightedge on manhole volume (left scale).
2. Place other end of straight edge on blower capacity (right scale)
3. Read required purging time , in minutes, on the diagonal scale.
4. If two blowers are used, add the two capacities, then proceed as above
5. When toxic gases are encountered, increase purging time 50%.
6. Effective blower capacity is measured with one or two 90° bends in standard 15 foot blower hose.

Certification – Homework Project Submission  
**Confined Space Pre-Incident Survey**

Administrative Data

Candidate's Name: \_\_\_\_\_

Candidate's Department: \_\_\_\_\_

Location of Confined Space Course: \_\_\_\_\_

Date Due: \_\_\_\_\_ Date Submitted: \_\_\_\_\_

**Candidate's Certification**

I certify that the attached project submitted is my own original work. This submission was prepared in accordance with the guidance given in the KFRTI Confined Space Study Guide.

Signature: \_\_\_\_\_

**Fire Chief's, Training Chief's, or Program Director's Verification**

I verify that the attached project submitted is the original work of the candidate listed above. This submission was prepared in accordance with the guidance given in the KFRTI Confined Space Study Guide.

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

# KFRTI Confined Space Preplan Form

Confined Space #	Permit Required	Yes No	Date of Survey
------------------	-----------------	-----------	----------------

Alternate Entry Procedures Possible	Atmospheric Hazards Only
Permit-Entry Required for Testing	Eliminated by Ventilation

Reclassification as Non-Permit Space Possible	
No Actual or Potential Atmospheric Hazard	All Other Hazards Eliminated
Permit-Entry Required for Hazard Elimination	

Location of Space

Description of Space

Configuration of Space

Possible Atmospheric Hazards			
Oxygen < 19.5%	Oxygen > 23.5%	Flammable Atmosphere	Toxic Atmosphere
Possible Gasses Present			

Physical Hazards				
Mechanical	Electrical	Pneumatic	Hydraulic	Pipes / Ducts
Engulfment	Hazardous Substance	SDS / MSDS Required	Temperature - High	Low

Energy Control Locations

Products / Chemicals Stored / Unusual Hazards

Elimination / Isolation Methods and Tools Required

Reasons for Entering the Space

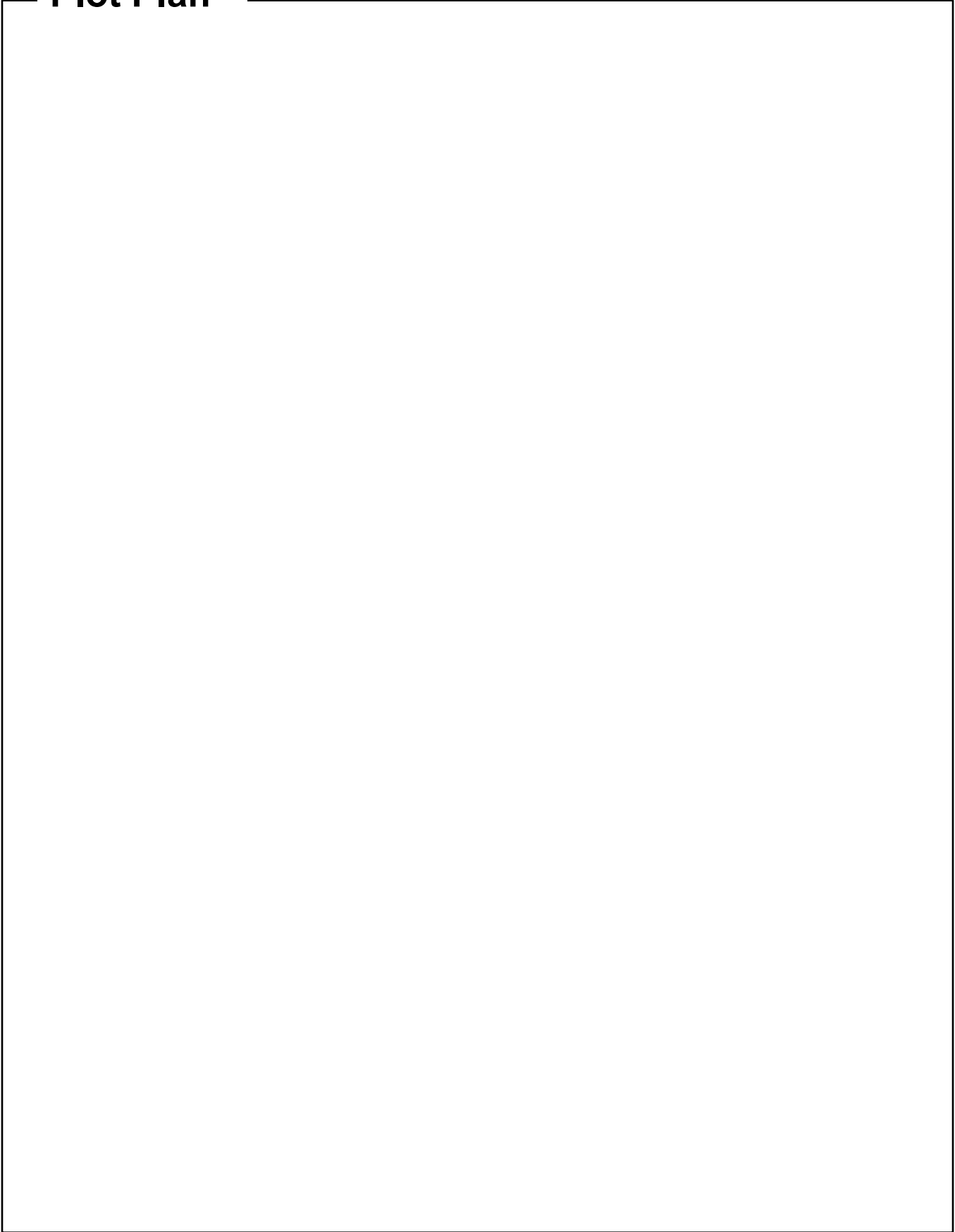
Who Ususally Enters Space

Number of Entry Points	Frequency of Entry
------------------------	--------------------

External Connections to Space



# Plot Plan





# Entrance Configuration

*Attach Photograph Here*

# Internal Configuration

*Attach Photograph Here*

**Photograph Showing** \_\_\_\_\_

*Attach Photograph Here*

**Photograph Showing** \_\_\_\_\_

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# Confined Space Rescue Technician, Level I & II Local Verification & Mask Fit Form NFPA 1006 – 2013

Candidate's Name: \_\_\_\_\_ Date of Birth: \_\_\_\_\_

## Local Verification Requirements

**1. 29 CFR 1910.134, Mask Fit Documentation:**

The candidate has been successfully fitted to his or her Self-Contained Breathing Apparatus (SCBA) Mask in compliance with 29 CFR 1910.134 within the last twelve (12) calendar months.

**2. NFPA 1006 – 2013, JPR 4.2, Medical Training and Kansas Fire & Rescue Training Institute, Technical Rescue Minimum Medical Requirements:**

The candidate must be a currently registered Kansas Emergency Medical Responder, Emergency Medical Technician, Advanced Emergency Medical Technician, or Paramedic.

These requirements are developed and have been validated at the local level per departmental protocol. Documentation of the requirements contained above are subject to verification by KFRTI in written form and/or a hard copy of the document(s).

***This section is to be completed by Fire Chief, Training Chief, or Program Director ONLY***

I have reviewed the candidate's file and affirm that the candidate identified above has met the requirements listed in paragraphs 1 through 2 above. All requirements have been successfully conducted and completed per local department protocol and policies. All information listed above can be validated by a written and/or hard copy of the documents maintained by the department.

\_\_\_\_\_  
Typed or Legibly Printed Name of Fire Chief, Training Chief, or Program Director

\_\_\_\_\_  
Signature of Fire Chief, Training Chief, or Program Director

Date: \_\_\_\_\_ Department / Organization: \_\_\_\_\_

Department / Organization Phone Number: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_