

# STRUCTURAL COLLAPSE TECHNICIAN SKILLS

## LEVEL II



Reference Source: 2013 NFPA 1006, Technical Rescuer Professional Qualifications

## TABLE OF CONTENTS

### **Certification Requirements Structural Collapse Rescue Level II:**

Entrance Requirements	3
Physical Fitness Requirements	3
Emergency Medical Care Requirements	4

### **Department Training:**

Written Objectives	4
Manipulative Objectives	4
Department Training Records	5

### **Certification Examinations:**

Written	5
Manipulative Skills	6

### **Structural Collapse Rescue Level II Certification:**

Prerequisites	7
Certification Checklist	8
Structural Collapse Level II Skill objectives	9-40

### **Appendix:**

Training Record	41
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## CERTIFICATION REQUIREMENTS

### Structural Collapse Rescue Level II

#### Requirements

In order to certify as a Technical Rescuer Structural Collapse Level II (NFPA 1006, Chapter 9, 2013 Edition) program, a firefighter must fulfill the following requirements:

1. Complete fire department (AHJ) entrance requirements.
2. Maintain records of training.
3. Train on the required written and practical objectives.
4. Meet any other training requirements/prerequisites as defined by the Fargo Fire Department Certification Committee.
5. Pass both written and practical skills examinations administered by the Fargo Fire Department Certified Testers. Initial testing is to be completed with Pro Board Credentialed Testers.

The Fargo Fire Department acknowledges the importance of and the need for entrance requirements as listed in the NFPA 1001, *Standard on Fire Fighter Professional Qualifications*.

#### Physical Fitness Requirements:

The requirements listed in NFPA 1001, Chapter 4 are:

1. Meet the minimum educational requirements established by the Fargo Fire Department or the AHJ.
2. Meet the medical requirements of NFPA 1582, *Standard on Comprehensive Occupational Medical Program for Fire Departments*.
3. Physical fitness requirements for entry-level personnel shall be developed and validated by the Fargo Fire Department or the AHJ. Physical fitness requirements shall be in compliance with applicable Equal Employment Opportunity regulations and other legal requirements.

## **Emergency Medical Care Requirements**

The following additional training requirements **must** be met before certification at the Structural Collapse Rescue Level II will be issued by the Fargo Fire Department Certification Committee.

Emergency Medical Care – Candidates for certification at the Structural Collapse Rescue Level II must hold a current CPR certification and have received medical training. Medical training should include infection control, bleeding control and shock management.

## **DEPARTMENT TRAINING**

Structural Collapse Rescue Level II requires a high level of skill and knowledge. The training given to and received by firefighter candidates should be of the highest quality and degree. All training received must meet the requirements of NFPA 1006, Chapter 9, 2013 Edition and the skills as approved by the Fargo Fire Department Certification Committee contained within the Fargo Standard. All training received must be documented and recorded on the training record. All testing for will be conducted following the policies and procedures of the Fargo Fire Department Certification Committee.

Training for Structural Collapse Rescue is conducted at the department level or could be received through a joint training agreement between departments on a regional level. Regardless of where the training is received, it must prepare the candidate to be a competent and effective Structural Collapse Rescue Technician Level II.

The course material should be referenced to the following textbooks to prepare the candidate to successfully pass the Structural Collapse Rescue Level II certification examination.

### **Written Objectives**

The written objectives for Structural Collapse Rescue Level II (Chapter 9) are covered in the following textbooks:

1. NFPA 1006, Rescue Technician Professional Qualifications, 2013 Edition Chapter 9
2. FEMA National US&R Response System, Structural Collapse Technician
3. Jones and Bartlett, Brannigan's Building Construction for the Fire Service, 4<sup>th</sup> Edition

### **Manipulative Objectives**

Each candidate must be trained and evaluated in the performance of all manipulative skills as outlined by the Fargo Fire Department in the Structural Collapse Rescue Level II objectives. Each of the manipulative skills shall be completed safely and with competence as defined below:

- **Safely** – Each manipulative skill objective must be completed safely. Actions that could injure an individual or damage equipment are unacceptable. Equipment should be checked prior to skill testing or training to see that it is safe and functional.
- **Competence** – Each manipulative skill objective is performed in accordance with the Fargo Fire Department Standard. This includes performing the proper steps in sequence. Competence will be measured in accordance with the Fargo Fire Department manipulative skill objectives.

### **Department Training Records**

Each candidate shall have a training record on file with the department which indicates whether he/she has trained on all manipulative skill objectives. This record shall be signed off or initialed by a department training officer. Training records must indicate the date, instructor, and total number of hours trained for each manipulative skill objective. The training record check-off for Structural Collapse Rescue Level II is provided in Appendix A of this document.

### **CERTIFICATION EXAMINATIONS**

After completion of the training process the candidate may test for certification.

#### **Written Examinations**

The written examination is a randomly generated **100-question** test covering the written objectives Chapter 9, Level II of the NFPA 1006 standard. A minimum score of 70% is required to pass the certification examination. Firefighters failing the first attempt of the written exam will be permitted to retest the next time test is administered. A candidate who passes the written test will have up to two years or a minimum of two offerings, to complete the manipulative skills portion of the testing.

#### **SAMPLE WRITTEN EXAMINATION QUESTIONS:**

*The transfer of heat by the movement of air or liquid would be considered?*

- |               |                         |
|---------------|-------------------------|
| a. Conduction | c. Convection           |
| b. Radiation  | d. Direct-flame contact |

*The technical rescuer's common goal is to?*

- |  |                                |
|--|--------------------------------|
| a. Problem solve                         | c. Cut corners                 |
| b. Research and buy the safest equipment | d. Perform rescue at all costs |

## **Manipulative Skills Examination**

This is a two-step examination. The first step is a department records check and the second step is a manipulative skills examination. Certification testers certified to Tester II or Tester III by the Fargo Fire Department conduct the examination. Initial testing will be conducted by outside Pro Board certified testers

Training records are checked. If records are inadequate, corrective action must be taken before proceeding to the next step. The records must meet minimum requirements and are checked for the following:

1. Candidate has completed all training requirements for Technical Rescuer Structural Collapse Level II (Chapter 9) from the NFPA 1006 standard, 2013 Edition.
2. The training officer has signed off each manipulative skill.
3. The total number of hours trained on each manipulative skill.

The manipulative skills examination is graded on a 100% pass/fail basis. The test is graded in the following areas:

- **Safely** – Each manipulative skill objective must be completed safely. Actions that could injure an individual or damage equipment are unacceptable. Equipment should be checked prior to skill testing or training to see that it is safe and functional.
- **Competence** – Each manipulative skill objective is performed in accordance with the Fargo Standard. This includes performing the proper steps in sequence when required. Competence will be measured in accordance with the Fargo Fire Department manipulative skill objectives.

Candidates are tested on **three (3) manipulative skills**. No prior notification of the skills being tested will be given.

**No training, teaching, or coaching is allowed during the test.**

This is a 100% pass/fail test. Candidates are allowed to fail a skill one time and have an opportunity to retest a second time to pass the skills test. If they fail a second time, this will be a failure for the entire skills testing portion of the examination.

Candidates who fail the manipulative examination will be required to complete further training on those areas that they were not successful in the testing. They would be eligible to test the next time it is offered at no extra charge. Candidates returning for testing will be tested on a new set of skills for the new testing period, that may or may not include the skill missed in the previous testing.

### **Prerequisites for Structural Collapse Rescue Level II (Chapter 9)**

Prior to certification at the level, firefighters must be Pro Board certified at the Hazardous Materials First Responder- **Awareness** level and Hazardous Materials First Responder- **Operations** level.

Firefighters must be **Pro Board Certified -Technical Rescue Job Performance Requirements (JPR's)/Rope Rescue Level I** through the Fargo Fire Department Certification system. This is a single certification.

Candidates must be **Pro Board Certified in Technical Rescuer Structural Collapse Level I**.

## CERTIFICATION CHECKLIST

### STRUCTURAL COLLAPSE RESCUE LEVEL II

#### **ENTRANCE REQUIREMENTS:**

- Each candidate has met requirements listed in NFPA 1001, Chapter 4 or those established by the authority having jurisdiction.
- Each candidate has met the additional requirements of CPR and medical training.
- Each candidate provides an application/affidavit for testing signed by the candidate and Chief/Head of the Department verifying that all pre-requisites have been completed.
- Each candidate provides a record showing that they are certified through the Fargo Fire Department system that they are **Pro Board Certified as a Technical Rescuer in Job Performance Requirements/Rope Rescue Level I**. This is a single certification.
- Each candidate must be **Pro Board certified as a Technical Rescuer Collapse Rescue Level I**.

#### **DEPARTMENT TRAINING RECORDS:**

- Each participant has a training record for review that shows:
  1. A learning experience in each manipulative skill objective.
  2. Dates of training.
  3. Initials of instructors.
  4. Total number of hours trained in each manipulative skill objective.

#### **ADDITIONAL TRAINING/PREREQUISITE REQUIREMENTS:**

- Each participant is certified at the Hazardous Materials Awareness and Operations level.
- Complete IS-700: Introduction to ICS.
- Complete IS-100: Introduction to ICS.
- Complete IS 200; Basic ICS

#### **CERTIFICATION EXAMINATIONS:**

- Each participant has passed the Fargo Fire Department Pro Board written examination.
- Each participant has passed the Fargo Fire Department manipulative skills testing administered by an approved Certification Tester.

#### **CERTIFICATION:**

- Certification Coordinator has reviewed records for completeness.

**NFPA 1006, 9.2.1 b**

**Skill 1: Conduct a Size-Up of a Collapsed Heavy Construction Structure**

**Instructions to Tester- Safety is Paramount!**

1. Given an incident and specific incident information, the candidate shall conduct a size-up of a collapsed heavy construction structure so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given an incident and specific incident information, the candidate shall conduct a size-up of a collapsed heavy construction structure so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. On site information
3. Collapse site

**NFPA 1006, 9.2.1 b**

**Skill 1: Conduct a Size-Up of a Collapsed Heavy Construction Structure**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. Existing and potential conditions within the structure and the immediate periphery are evaluated		
2. Needed resources are identified		
3. Hazards are identified		
4. Construction and occupancy types are identified		
5. Collapse type is identified if possible		
6. the need for rescue is assessed		
7. A scene security perimeter is established		
8. A size-up is conducted within the scope of the incident management system		

**PERFORMANCE RATING ON THIS SKILL**

**PASS**

**FAIL**

First Attempt

\_\_\_\_\_

\_\_\_\_\_

Second Attempt

\_\_\_\_\_

\_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.2 b**

**Skill 2: Determine Potential Victim Locations in a Heavy Construction Collapse**

**Instructions to Tester- Safety is Paramount!**

1. Given size-up information, a structural collapse tool kit, the type of construction and occupancy, time of day and collapse pattern, the candidate shall determine potential victim locations so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given size-up information, a structural collapse tool kit, the type of construction and occupancy, time of day and collapse pattern, the candidate shall determine potential victim locations so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. On site information
3. Collapse site
4. Search devices

**NFPA 1006, 9.2.2 b**

**Skill 2: Determine Potential Victim Locations in a Heavy Construction Collapse**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. Search areas are established		
2. Search devices used appropriately		
3. Victims are located		

**PERFORMANCE RATING ON THIS SKILL** **PASS** **FAIL**

First Attempt    \_\_\_\_\_    \_\_\_\_\_

Second Attempt    \_\_\_\_\_    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.3 b**

**Skill 3: Develop a Heavy Structure Collapse Rescue Incident Action Plan**

**Instructions to Tester- Safety is Paramount!**

1. Given size-up information, and a heavy collapsed structure, the candidate shall develop a collapse rescue incident action plan so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given size-up information, and a heavy collapsed structure, the candidate shall develop a collapse rescue incident action plan so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. On site information
3. Heavy collapse site

**NFPA 1006, 9.2.3 b**

**Skill 3: Develop a Heavy Structure Collapse Rescue Incident Action Plan**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. Initial size-up information is utilized		
2. An incident management system is incorporated		
3. Existing and potential conditions within the structure and immediate periphery are included		
4. Specialized resources are identified		
5. Work perimeters are determined		
6. Collapse type/category and associated hazards are identified		
7. Construction and occupancy types are determined		
8. Incident objectives are established		
9. Scene security measures are addressed		

**PERFORMANCE RATING ON THIS SKILL**

**PASS**

**FAIL**

First Attempt    \_\_\_\_\_

Second Attempt    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.4 b**

**Skill 4: Implement a Heavy Construction Collapse Rescue Incident Action Plan**

**Instructions to Tester- Safety is Paramount!**

1. Given an action plan and a heavy construction collapsed structure, the candidate shall implement a collapse rescue incident action plan so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given an action plan and a heavy construction collapsed structure, the candidate shall implement a collapse rescue incident action plan so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. On site information
3. Heavy collapse site
4. An action plan

**NFPA 1006, 9.2.4 b**

**Skill 4: Implement a Heavy Construction Collapse Rescue Incident Action Plan**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. Pertinent information is used		
2. An incident management system is established and implemented		
3. Monitoring of dynamic conditions internally and externally is established		
4. Specialized resources are requested		
5. Hazards are mitigated		
6. Victim rescue and extrication techniques are consistent with collapse and construction type		
7. Perimeter security measures are established		

**PERFORMANCE RATING ON THIS SKILL**

**PASS**      **FAIL**

First Attempt    \_\_\_\_\_    \_\_\_\_\_

Second Attempt    \_\_\_\_\_    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.5 b**

**Skill 5: Search a Collapsed Heavy Construction Structure**

**Instructions to Tester- Safety is Paramount!**

1. Given personal protective equipment, a structural collapse tool kit, an assignment, operational protocols and size up information, the candidate shall search a collapsed structure so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given personal protective equipment, a structural collapse tool kit, an assignment, operational protocols and size up information, the candidate shall search a collapsed structure so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. On site information
3. Heavy collapse site
4. An assignment
5. Collapse rescue tool kit

**NFPA 1006, 9.2.5 b**

**Skill 5: Search a Collapsed Heavy Construction Structure**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. All victim locations and potential hazards are identified, marked and reported		
2. Incident management system used		
3. Victim locating devices used during search		
4. Rescuer safety is maintained		
5. Hazards are identified and mitigated		

**PERFORMANCE RATING ON THIS SKILL**

**PASS**      **FAIL**

First Attempt    \_\_\_\_\_    \_\_\_\_\_

Second Attempt   \_\_\_\_\_    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.6 b**

**Skill 6: Stabilize a Collapsed Heavy Construction Structure**

**Instructions to Tester- Safety is Paramount!**

1. Given size-up information, a specific pattern of collapse, a structural collapse tool kit and an assignment, the candidate shall stabilize a collapsed heavy construction structure as a member of a team so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given size-up information, a specific pattern of collapse, a structural collapse tool kit and an assignment, the candidate shall stabilize a collapsed heavy construction structure as a member of a team so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. On site information
3. Heavy collapse site
4. Collapse rescue tool kit
5. An assignment

**NFPA 1006, 9.2.6 b**

**Skill 6: Stabilize a Collapsed Heavy Construction Structure**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. Strategies to effectively minimize the movement of structural components are identified and implemented. (Proper shoring)		
2. Hazard warning systems are established and understood by participating personnel		
3. Incident specific personal protection equipment is identified, provided and utilized		
4. Physical hazards are identified and mitigated		
5. Confinement, containment and avoidance measures are discussed		
6. A rapid intervention team is established and staged		

**PERFORMANCE RATING ON THIS SKILL**

**PASS**      **FAIL**

First Attempt      \_\_\_\_\_

Second Attempt      \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.7 b**

**Skill 7: Implement Collapse Support Operations at a Rescue Incident**

**Instructions to Tester- Safety is Paramount!**

1. Given an assignment and available resources, the candidate shall implement collapse support operations at a rescue incident so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given an assignment and available resources, the candidate shall implement collapse support operations at a rescue incident so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. Lighting equipment
3. Collapse site
4. Size-up information

**NFPA 1006, 9.2.7 b**

**Skill 7: Implement Collapse Support Operations at a Rescue Incident**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. Scene lighting is adequate for the tasks to be undertaken		
2. Environmental concerns are managed		
3. Personnel rehab is established		
4. The support operations facilitate rescue operational objectives		

**PERFORMANCE RATING ON THIS SKILL** PASS      FAIL

First Attempt    \_\_\_\_\_    \_\_\_\_\_

Second Attempt    \_\_\_\_\_    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.8 b**

**Skill 8: Release a Victim from Entrapment of a Heavy Construction Collapsed Structure**

**Instructions to Tester- Safety is Paramount!**

1. Given personal protective equipment, resources for breaching, breaking, lifting, prying, shoring and /or otherwise moving or penetrating the offending structure, the candidate shall release a victim from entrapment by components of a heavy construction collapsed structure so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given personal protective equipment, resources for breaching, breaking, lifting, prying shoring and /or otherwise moving or penetrating the offending structure, the candidate shall release a victim from entrapment by components of a heavy construction collapsed structure so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. Collapse equipment
3. Collapse site
4. Size-up information
5. Victim

**NFPA 1006, 9.2.8 b**

**Skill 8: Release a Victim from Entrapment of a Heavy Construction Collapsed Structure**

<b>Skill</b>	<b>1<sup>st</sup> Att</b>	<b>2<sup>nd</sup> Att</b>
1. Hazards to rescue personnel and victims are minimized		
2. Considerations are given to crush syndrome		
3. Rescue tools operated properly to enhance patient survivability		
4. Techniques do not compromise the integrity of the existing structure or structural support systems		
5. Extrication times meet time constraints for medical management (golden hour)		

**PERFORMANCE RATING ON THIS SKILL**

**PASS**

**FAIL**

First Attempt    \_\_\_\_\_    \_\_\_\_\_

Second Attempt    \_\_\_\_\_    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.9 b**

**Skill 9: Remove a Victim from a Heavy Construction Collapse Incident**

**Instructions to Tester- Safety is Paramount!**

1. Given a disentangled victim, a basic first aid kit and victim packaging resources, the candidate shall remove a victim from a heavy construction collapse incident so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given a disentangled victim, a basic first aid kit and victim packaging resources, the candidate shall remove a victim from a heavy construction collapse incident so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. First aid equipment
3. Collapse site
4. Victim packaging resources
5. Victim

**NFPA 1006, 9.2.9 b**

**Skill 9: Remove a Victim from a Heavy Construction Collapse Incident**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. Basic life functions are supported as required		
2. Victim is evaluated for signs of crush syndrome		
3. Advanced life support is called for		
4. Methods and packaging devices selected are compatible with intended routes of transfer		
5. Extrication times meet time constraints for medical management (golden hour)		

**PERFORMANCE RATING ON THIS SKILL**

**PASS**

**FAIL**

First Attempt    \_\_\_\_\_

Second Attempt    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.10 b**

**Skill 10: Lift a Heavy Load as a Team Member**

**Instructions to Tester- Safety is Paramount!**

1. Given a structural collapse tool kit and a load to be lifted, the candidate shall lift a heavy load as a team member so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given a structural collapse tool kit and a load to be lifted, the candidate shall lift a heavy load as a team member so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. Heavy load for lifting
3. Collapse site
4. Structural collapse tool kit

**NFPA 1006, 9.2.10 b**

**Skill 10: Lift a Heavy Load as a Team Member**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. Weight of load is estimated		
2. Proper equipment is chosen and load is lifted safely		
3. Control and stabilization are maintained before, during and after lift		
4. Access is gained		

**PERFORMANCE RATING ON THIS SKILL**

**PASS      FAIL**

First Attempt    \_\_\_\_\_    \_\_\_\_\_

Second Attempt    \_\_\_\_\_    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.11 b**

**Skill 11: Move a Heavy Load as a Team Member**

**Instructions to Tester- Safety is Paramount!**

1. Given a structural collapse tool kit and a load to be moved 20 feet, the candidate shall move a heavy load as a team member so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given a structural collapse tool kit and a load to be moved 20 feet, the candidate shall move a heavy load as a team member so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. Heavy load for moving
3. An assignment
4. Structural collapse tool kit

**NFPA 1006, 9.2.11 b**

**Skill 11: Move a Heavy Load as a Team Member**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. Weight of load is estimated		
2. Proper equipment is chosen and load is moved safely		
3. Control and stabilization are maintained before, during and after move		
4. Load is moved the required distance		

**PERFORMANCE RATING ON THIS SKILL** **PASS**      **FAIL**

First Attempt      \_\_\_\_\_      \_\_\_\_\_

Second Attempt      \_\_\_\_\_      \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.12 b**

**Skill 12: Breach Heavy Structural Components**

**Instructions to Tester- Safety is Paramount!**

1. Given an assignment, personal protective equipment, various types of heavy construction materials and a structural collapse tool kit, the candidate shall breach structural components so that the opening supports the rescue objectives and that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given an assignment, personal protective equipment, various types of heavy construction materials and a structural collapse tool kit, the candidate shall breach structural components so that the opening supports the rescue objectives and that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. Construction material props
3. Structural collapse tool kit
4. An assignment

**NFPA 1006, 9.2.12 b**

**Skill 12: Breach Heavy Structural Components**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1.The opening supports the rescue objectives		
2. The necessary tools are selected		
3. Structural stability is maintained		
4. The methods utilized are safe and efficient		

**PERFORMANCE RATING ON THIS SKILL** **PASS** **FAIL**

First Attempt    \_\_\_\_\_    \_\_\_\_\_

Second Attempt    \_\_\_\_\_    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.13 b**

**Skill 13: Construct Cribbing Systems**

**Instructions to Tester- Safety is Paramount!**

1. Given an assignment, personal protective equipment, a structural collapse tool kit, various lengths and dimensions of construction grade lumber, wedges and shims, the candidate shall construct cribbing systems so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given an assignment, personal protective equipment, a structural collapse tool kit, various lengths and dimensions of construction grade lumber, wedges and shims, the candidate shall construct cribbing systems so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. Construction material props
3. Structural collapse tool kit
4. An assignment

**NFPA 1006, 9.2.13 b**

**Skill 13: Construct Cribbing Systems**

<b>Skill</b>	<b>1<sup>st</sup> Att</b>	<b>2<sup>nd</sup> Att</b>
1. Calculates the weight of the load		
2. The cribbing system safely supports the load		
3. The system is stable		
4. The assignment is completed		

**PERFORMANCE RATING ON THIS SKILL**

**PASS**

**FAIL**

First Attempt    \_\_\_\_\_

Second Attempt    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.14 b**

**Skill 14: Stabilize a Collapsed Heavy Construction Structure**

**Instructions to Tester- Safety is Paramount!**

1. Given size-up information, hazard specific personal protective equipment, an assignment, a specific pattern of collapse, a structural collapse tool kit, specialized equipment necessary to complete the task and engineering resources if needed, the candidate shall stabilize a collapsed heavy construction type structure as a member of a team so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given size-up information, hazard specific personal protective equipment, an assignment, a specific pattern of collapse, a structural collapse tool kit, specialized equipment necessary to complete the task and engineering resources if needed, the candidate shall stabilize a collapsed heavy construction type structure as a member of a team so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. Heavy construction collapse prop
3. Structural collapse tool kit
4. Specialized equipment
5. An assignment

**NFPA 1006, 9.2.14 b**

**Skill 14: Stabilize a Collapsed Heavy Construction Structure**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. Hazard warning systems are established and understanding by team members is verified		
2. All unstable structural components that impact the work and egress routes are identified		
3. Alternative egress routes are established when possible		
4. Expert resource needs are determined and communicated to command		
5. Load estimates are calculated for support system requirements		
6. All shoring systems meet or exceed load bearing demands		
7. Shoring systems are monitored continuously for integrity		
8. Safety protocols are followed		
9. Rapid intervention crew are established and staged to aid in search and rescue of personnel in the event of entrapment		
10. An accountability system is in place		
11. Atmospheric monitoring is ongoing		
12. Progress is communicated to command		

**PERFORMANCE RATING ON THIS SKILL**

**PASS**

**FAIL**

First Attempt \_\_\_\_\_

Second Attempt \_\_\_\_\_

Candidate Signature \_\_\_\_\_ Date \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_ Tester Sig. Second Att. \_\_\_\_\_

**NFPA 1006, 9.2.15 b**

**Skill 15: Cut through Structural Steel**

**Instructions to Tester- Safety is Paramount!**

1. Given a structural collapse tool kit, personal protective equipment and an assignment the candidate shall cut through structural steel so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given a structural collapse tool kit, personal protective equipment and an assignment the candidate shall cut through structural steel so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. Structural steel
3. Structural collapse tool kit
4. Specialized equipment
5. An assignment

**NFPA 1006, 9.2.15 b**  
**Skill 15: Cut through Structural Steel**

Skill	1 <sup>st</sup> Att	2 <sup>nd</sup> Att
1. The steel is safely and efficiently cut		
2. Rescuer and if present, victim are protected		
3. Fire control measures are in place		
4. The objective is completed		

**PERFORMANCE RATING ON THIS SKILL**

**PASS**      **FAIL**

First Attempt    \_\_\_\_\_    \_\_\_\_\_  
 Second Attempt    \_\_\_\_\_    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

**NFPA 1006, 9.2.16 b**

**Skill 16: Coordinate the Use of Heavy Equipment**

**Instructions to Tester- Safety is Paramount!**

1. Given personal protective equipment, means of communication, equipment and operator and an assignment, the candidate shall coordinate the use of heavy equipment so that the listed performance steps are completed.
2. Prevent or prohibit any unsafe acts.
3. Remember that you are an evaluator, not an instructor.

**Instructions to Candidate**

1. Given personal protective equipment, means of communication, equipment and operator and an assignment, the candidate shall coordinate the use of heavy equipment so that the listed performance steps are completed.
2. The skill will end when you state or indicate to the tester that you have completed all the identified steps.
3. Contact the tester at any time with any questions you may have.

**Preparation and Equipment**

1. Proper PPE
2. Portable radio
3. Equipment and operator
4. An assignment

**NFPA 1006, 9.2.16 b**

**Skill 16: Coordinate the Use of Heavy Equipment**

<b>Skill</b>	<b>1<sup>st</sup> Att</b>	<b>2<sup>nd</sup> Att</b>
1. Common communications is established		
2. Equipment usage supports the operational objective		
3. Hazards are avoided		
4. Rescuer and operator operate in a safe manner		

**PERFORMANCE RATING ON THIS SKILL** **PASS** **FAIL**

First Attempt    \_\_\_\_\_    \_\_\_\_\_

Second Attempt    \_\_\_\_\_    \_\_\_\_\_

Candidate Signature \_\_\_\_\_

Tester Signature 1<sup>st</sup> Attempt \_\_\_\_\_

Tester Signature 2<sup>nd</sup> Attempt \_\_\_\_\_

Date \_\_\_\_\_

<b>Structural Collapse Technician Training Record</b>						
<b>Level II</b>						
<b>Training Record</b>			<b>In House Exam</b>			<b>Manipulative Skill Demonstrated</b>
Date	Inst	Hours	Date	Inst	P/F	
						1. Conduct a size-up of a collapsed heavy construction structure
						2. Determine potential victim locations in a heavy construction collapse
						3. Develop a collapse rescue incident action plan
						4. Implement a heavy construction collapse incident action plan
						5. Search a collapsed heavy construction structure
						6. Stabilize a collapsed heavy construction structure
						7. Implement collapse support operations at a heavy construction rescue incident
						8. Release a victim from entrapment of a heavy construction collapsed structure
						9. Remove a victim from a heavy construction collapse incident
						10. Lift a heavy load as a team member

						11. Move a heavy load as a team member
						12. Breach heavy structural components
						13. Construct cribbing systems
						14. Stabilize a collapsed heavy construction structure
						15. Cut up structural steel
						16. Coordinate the use of heavy equipment