National Certification Program Study Guide
July 2009

Fire Fighter II

NFPA 1001,
Standard for Fire Fighter Professional Qualifications,
2008 Edition

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Introduction to Fire Fighter I Certification

Each individual seeking certification within the Kansas Fire & Rescue Training Institute, the University of Kansas, Certification System must submit an application and the appropriate fee to secure entrance into the system. **Candidates are given one year in which to complete the certification process.** Application forms may be downloaded at: http://www.continuinged.ku.edu/fire/certification.php.

A list of current fees may be obtained by calling 785-864-4790 or toll free 1-866-804-8841 or may be downloaded from http://www.continuinged.ku.edu/fire/certification.php. Purchase orders from cities or organizations will be accepted. Kansas Fire & Rescue Training Institute will not “bill” individuals for the certification fee. Checks or credit cards are accepted from individuals. Upon receipt of the application and fee, the candidate will be scheduled into a specific exam site as requested or the candidate may select an exam site from the schedule on the KUCE website.

Applicants may register for an exam site at the time of application by completing the appropriate block on the application form. Candidates requesting a specific test site should contact the Kansas Fire & Rescue Training Institute at 785-864-4790 or toll free 1-866-804-8841 to confirm that they have a reserved place at the exam.

Certification candidates are given two (2) attempts at each component, written and practical, **within the twelve month certification period.** If the candidate takes either component of the exam twice without passing, the candidate is required to resubmit a certification application form as well as an additional certification fee before being scheduled to retest a third time.

Candidates failing the written exam are responsible for notifying Kansas Fire & Rescue Training Institute of their desire to retest and enroll at the next scheduled exam that has available space or they may come to the Kansas Fire & Rescue Training Institute in Lawrence, Kansas to take a retest. Written exams will not be graded at the test site. Candidates may not take the written exam more than once per day.

Candidates are responsible for **all of the skills** required by the NFPA 1001, *Standard for Fire Fighter Professional Qualifications*, 2008 edition, during the practical exam. An exact list of specific skills is included in the study guide. A minimum of **five** (5) skills will be selected to be tested at each exam site. **Candidates should be prepared to test on any skill listed in the standard.** The intent of this process is to insure that candidates are prepared to test on skills required by the NFPA 1001-2008 standard.

Practical skill exams are graded on a pass/fail basis. Candidates must successfully complete all skill stations at an exam site to receive a passing grade for the practical exam. Each candidate is allowed two (2) attempts at each station.

Candidates failing the practical exam are responsible for notifying Kansas Fire & Rescue Training Institute of their desire to retest by preregistering for another regularly scheduled exam. Candidates may not take the practical exam more than once per exam day.

**An official picture ID (e.g., driver’s license, military ID, etc.) must be shown for admittance to written and practical exams. Bring personal protective equipment and an SCBA.**
Certification Examination Instructions
Fire Fighter II
NFPA 1001 – 2008

Prerequisites:
Candidates seeking certification for Fire Fighter II within the Kansas Fire & Rescue Training Institute (KFRTI), the University of Kansas, must meet the following:


2. Verification of the following requirements by Fire Chief (or designated representative) or employer. For those candidates enrolled in Kansas Community College Fire Fighter I programs, this verification will be executed by the professor or chief instructor. Verification of these requirements will be executed with the completion of the Fire Fighter II Local Verification & Mask Fit Test Form found in this Study Guide on page 21.
   - Proof of mask fit testing to the SCBA mask (model & size) used in the certification test.
   - Ability to operate department computers and other equipment necessary to complete reports.
   - Ability to present fire safety information to station visitors or small groups using prepared materials and then document these presentations in department records.
   - Ability to complete departmental maintenance records on tools and equipment and follow reporting procedures for non-operational tools and equipment.
   - Ability to complete department records on hose annual service testing.

3. Candidate must be competent in all objectives listed in:


5. Successful completion of all parts of the Fire Fighter II certification exam will result in national certification in Fire Fighter II.

Part I - Written Examination:
The Fire Fighter II written certification exam is based on Requisite Knowledge objectives listed in the NFPA 1001, Standard for Firefighter Professional Qualifications, 2008 edition.

1. Candidates are required to score a minimum of 70%.

2. The certification exam contains one hundred (100) true/false and multiple choice questions covering Fire Fighter II level knowledge requirements as stated in NFPA 1001-2008. The candidate will be allowed two (2) hours to complete this portion of the exam.
Part II - Practical Skills Examination:
The Fire Fighter II practical skills portion of the certification exam is based on Requisite Knowledge and Requisite Skills objectives listed in NFPA 1001, Standard for Firefighter Professional Qualifications, 2008 edition.

1. Candidates will be required to score 100% on all evaluated skills, which are graded on a Pass/Fail basis.

2. The skills evaluation forms are available as part of this study guide.

References & Textbooks:
Required Equipment

1. Each candidate applying to certify at this level is **REQUIRED** bring the following approved, NFPA compliant personal protective clothing and equipment to the test site:
   - □ Fire fighting helmet.
   - □ Fire fighting gloves.
   - □ Fire fighting boots (rubber or leather).
   - □ Protective hood.
   - □ Turnout coat.
   - □ Protective pants with suspenders.
   - □ Safety glasses or goggles (ANSI Standard Z87.1 compliant.)
   - □ Self-contained breathing apparatus (SCBA). SCBA may be shared among students from the same department so long as each has been properly fit-tested to his or her mask.
   - □ Personal Alert Safety System (PASS) Device. (It may be stand-alone or integrated into the SCBA.)

2. Candidates may **not** wear nylon or polyester clothing due to the potential of thermal injuries from fire fighting operations during the course of the test.

3. The following is **RECOMMENDED** and is left up to the applicant’s discretion:
   - □ Long sleeve cotton tee shirt.
   - □ Long trousers.
   - □ Outer garments suitable to the weather.
   - □ Water or sports drinks to maintain proper hydration.
   - □ Sun screen (if appropriate to the weather.)

__________________________

Mask Fit Compliance

Candidates may be exposed to an IDLH environment during the course of testing.

**All Fire Fighter I certification candidates must present documented SCBA face piece testing in compliance with 29 CFR 1910.134.**

Verification of face piece testing may be documented on the **Fire Fighter II Local Verification & Mask Fit Test Form** provided in this study guide (page 21).

Any candidates with beards or facial hair in the area of the SCBA face piece seal **will not** be allowed to participate in the practical skills exam for Fire Fighter I. **Candidates must be visibly clean shaven, without stubble, at the time of the test.**

__________________________
Certification Flow Chart for
Fire Fighter II

Decide to seek National Certification

Attend an appropriate class

Submit certification application, FFII Local Verification & Mask Fit Test Form, and fee to KF&RTI

Request test site from KF&RTI

Take written & practical exams

Pass all parts?

Yes

Receive certificate in 10 to 20 working days

No

Notified by KF&RTI in 10 to 20 working days

Retest

Pass all parts?

Yes

No
**FFII Written Exam Study Guidesheet**


The reading and study references listed below represent published references from which certification exam questions are taken.

<table>
<thead>
<tr>
<th>Section Subject &amp; NFPA Objective Number</th>
<th>Reading/Study Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Knowledge Requirements 6.1.1</td>
<td>pp. 24 – 25, 35 – 40, 63 – 78, 792</td>
</tr>
<tr>
<td>General Skill Requirements 6.1.2</td>
<td>pp. 792, 821</td>
</tr>
<tr>
<td>Complete a Basic Incident Report 6.2.1</td>
<td>pp. 949, 955</td>
</tr>
<tr>
<td>Communicate the Need for Team Assistance 6.2.2</td>
<td>pp. 792, 821, 926 – 949</td>
</tr>
<tr>
<td>Extinguish an Ignitable Liquid Fire 6.3.1</td>
<td>pp. 734 – 749, 773 – 780</td>
</tr>
<tr>
<td>Coordinate an Interior Fire Attack 6.3.2</td>
<td>pp. 792, 821</td>
</tr>
<tr>
<td>Control a Flammable Gas Cylinder Fire 6.3.3</td>
<td>pp. 779, 820</td>
</tr>
<tr>
<td>Protect Evidence of Fire Cause and Origin 6.3.4</td>
<td>pp. 915 – 918, 920</td>
</tr>
<tr>
<td>Extricate a Victim Entrapped in a Motor Vehicle 6.4.1</td>
<td>pp. 349 – 361, 387 – 390</td>
</tr>
<tr>
<td>Assist Rescue Operation Teams 6.4.2</td>
<td>pp. 361 – 374, 391</td>
</tr>
<tr>
<td>Perform a Fire Safety Survey in a Private Dwelling 6.5.1</td>
<td>pp. 976 – 982, 996</td>
</tr>
<tr>
<td>Present Fire Safety Information to Station Visitors or Small Groups 6.5.2</td>
<td>pp. 982 – 992, 997 – 998</td>
</tr>
<tr>
<td>Prepare a Pre-incident Survey 6.5.3</td>
<td>pp. 609 – 610, 626, 970 – 975, 995</td>
</tr>
<tr>
<td>Maintain Power Plants, Power Tools, and Lighting Equipment 6.5.4</td>
<td>pp. 330 – 334, 386</td>
</tr>
</tbody>
</table>
Perform an Annual Service Test on Fire Hose
6.5.5 pp. 680 – 682, 712 – 713

Cumulative reading pages:

**FFII Practical Skills Exam Study Guidesheet**


The reading and study references listed below represent published references from which certification exam questions are taken.

<table>
<thead>
<tr>
<th>Section Subject &amp; NFPA Objective Number</th>
<th>Referenced Skill Sheets</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Knowledge Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>6.1.1 None</td>
<td></td>
</tr>
<tr>
<td><strong>General Skill Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>6.1.2 Determine need for command</td>
<td>KFRTI 1 IFSTA 15-II-3 p. 821</td>
</tr>
<tr>
<td>Organize &amp; coordinate an IMS until command is transferred</td>
<td>KFRTI 1 IFSTA 15-II-3 p. 821</td>
</tr>
<tr>
<td>Function in assigned role in IMS</td>
<td>KFRTI 1 IFSTA 15-II-3 p. 821</td>
</tr>
<tr>
<td><strong>Complete a Basic Incident Report</strong></td>
<td></td>
</tr>
<tr>
<td>6.2.1 Determine codes</td>
<td>KFRTI 2 IFSTA 19-II-1 p. 955</td>
</tr>
<tr>
<td>Proof reports</td>
<td>KFRTI 2 IFSTA 19-II-1 p. 955</td>
</tr>
<tr>
<td>Operate computers &amp; equipment to complete reports</td>
<td>Verified by Fire Chief</td>
</tr>
<tr>
<td><strong>Communicate the Need for Team Assistance</strong></td>
<td></td>
</tr>
<tr>
<td>6.2.2 Operate fire department communication equipment</td>
<td>KFRTI 1 IFSTA 15-II-3 p. 821</td>
</tr>
<tr>
<td><strong>Extinguish an Ignitable Liquid Fire</strong></td>
<td></td>
</tr>
<tr>
<td>6.3.1 Prepare a foam concentrate supply for use</td>
<td>KFRTI 3 IFSTA 14-II-1 p. 755</td>
</tr>
<tr>
<td>Assemble foam stream components</td>
<td>KFRTI 3 IFSTA 14-II-1 p. 755</td>
</tr>
<tr>
<td>Master foam application techniques</td>
<td>KFRTI 3 IFSTA 15-II-1 p. 819</td>
</tr>
<tr>
<td>Approach &amp; retreat from spills</td>
<td>KFRTI 3 IFSTA 15-II-1 p. 819</td>
</tr>
<tr>
<td><strong>Coordinate an Interior Attack</strong></td>
<td></td>
</tr>
<tr>
<td>6.3.2 Assemble a team</td>
<td>KFRTI 4 IFSTA 15-II-3 p. 821</td>
</tr>
<tr>
<td>Choose attack technique</td>
<td>KFRTI 4 IFSTA 15-II-3 p. 821</td>
</tr>
<tr>
<td>Evaluate &amp; forecast fire’s growth &amp; development</td>
<td>KFRTI 4 IFSTA 15-II-3 p. 821</td>
</tr>
<tr>
<td>Select tools for forcible entry</td>
<td>KFRTI 4 IFSTA 15-II-3 p. 821</td>
</tr>
<tr>
<td>Incorporate search &amp; rescue procedures &amp; ventilation procedures into fire attack</td>
<td>KFRTI 4 IFSTA 15-II-3 p. 821</td>
</tr>
<tr>
<td>Determine developing hazardous building or fire conditions</td>
<td>KFRTI 4 IFSTA 15-II-3 p. 821</td>
</tr>
<tr>
<td><strong>Control a Flammable Gas Cylinder Fire</strong></td>
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<tr>
<td>6.3.3 Execute effective advances &amp; retreats</td>
<td>KFRTI 5 IFSTA 15-II-2 p. 820</td>
</tr>
<tr>
<td>Apply various water application techniques</td>
<td>KFRTI 5 IFSTA 15-II-2 p. 820</td>
</tr>
</tbody>
</table>
Assess cylinder integrity & changing cylinder conditions  KFRTI 5  IFSTA 15-II-2  p. 820
Operate control valves  KFRTI 5  IFSTA 15-II-2  p. 820
Choose effective procedures when conditions change  KFRTI 5  IFSTA 15-II-2  p. 820

Protect Evidence of Fire Cause & Origin
6.3.4  Locate fire’s area of origin  KFRTI 6  IFSTA 18-II-1  p. 920
Recognize possible causes  KFRTI 6  IFSTA 18-II-1  p. 920
Protect evidence  KFRTI 6  IFSTA 18-II-1  p. 920

Extricate a Victim Entrapped in a Motor Vehicle
6.4.1  Operate hand & power tools  KFRTI 7  IFSTA 8-II-2  pp. 387 – 390
Use cribbing & shoring material  KFRTI 7  IFSTA 8-II-2  pp. 387 – 390
Choose & apply techniques for moving or removing roofs, doors, windshields, windows, steering wheels or columns, and the dashboard.  KFRTI 7  IFSTA 8-II-2  pp. 387 – 390

Assist Rescue Operation Teams
6.4.2  Identify & retrieve various types of rescue tools  KFRTI 8  IFSTA 8-II-3  p. 391
Establish public barriers  KFRTI 8  IFSTA 8-II-3  p. 391
Assist rescue teams as a member of the team when assigned  KFRTI 8  IFSTA 8-II-3  p. 391

Perform a Safety Survey in a Private Dwelling
6.5.1  Complete forms  KFRTI Project II-1
Recognize hazards  KFRTI Project II-1
Match findings to preapproved recommendations  KFRTI Project II-1
Effectively communicate findings to occupants or referrals  KFRTI Project II-1

Present Fire Safety Information to Station Visitors or Small Groups
6.5.2  Document presentations  Verified by Fire Chief
Use prepared materials  Verified by Fire Chief

Prepare a Pre-Incident Survey
6.5.3  Identify components of fire suppression & detection systems  KFRTI Project II-2
Sketch the site, buildings, & special features  KFRTI Project II-2
Detect hazards & special considerations  KFRTI Project II-2
Complete all departmental forms  KFRTI Project II-2

Maintain Power Plants, Power Tools, & Lighting Equipment
6.5.4  Ability to select correct tools  KFRTI 9  IFSTA 8-II-1  p. 386
Follow guidelines  KFRTI 9  IFSTA 8-II-1  p. 386
Complete records & reporting procedures  Verified by Fire Chief
Operate power plants, power tools, and lighting equipment  KFRTI 9  IFSTA 8-II-1  p. 386

Perform Annual Service Test on Fire Hose
6.5.5  Operate hose testing equipment & nozzles  KFRTI 10  IFSTA 13-II-1  pp. 712 – 713
Record results  Verified by Fire Chief
Skill Set: General Skills – Incident Management System & Communications

OBJECTIVE: NFPA 1001-2008, Chapter 6, Sections 6.1.2 and 6.2.2.


KNOWLEDGE: pp. 792, 926 – 949.

SKILLS: 15-II-3 (p. 821)

Candidate Equipment Required: Full Personal Protective Clothing, Fire Department Radio.

Evaluator Equipment Required: Scenario.

Read To Candidate

At this station, you will be required to implement an Incident Management System (IMS), given a tactical scenario, a set of resources, and a specific assigned role. This is not a timed event, but you should complete the assignment as expeditiously as possible.

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

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
<th>Skill Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>F</td>
<td>P</td>
</tr>
<tr>
<td>___</td>
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</tr>
<tr>
<td>1. Determined the need for command.</td>
<td>1. Determined the need for command.</td>
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<tr>
<td>___</td>
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<tr>
<td>2. Sized up the incident.</td>
<td>2. Sized up the incident.</td>
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<tr>
<td>___</td>
<td>___</td>
<td>___</td>
</tr>
<tr>
<td>3. Communicated size-up results to dispatch and/or incoming units.</td>
<td>3. Communicated size-up results to dispatch and/or incoming units.</td>
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<tr>
<td>4. Organized &amp; coordinated an IMS until command is transferred.</td>
<td>4. Organized &amp; coordinated an IMS until command is transferred.</td>
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<td>___</td>
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<tr>
<td>5. Identified incident priorities, strategies, and objectives.</td>
<td>5. Identified incident priorities, strategies, and objectives.</td>
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<tr>
<td>6. Requested additional resources as required.</td>
<td>6. Requested additional resources as required.</td>
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<td>___</td>
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<tr>
<td>7. Provided briefing to senior officer who is assuming Command.</td>
<td>7. Provided briefing to senior officer who is assuming Command.</td>
<td></td>
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<tr>
<td>___</td>
<td>___</td>
<td>___</td>
</tr>
<tr>
<td>8. Functioned in assigned role in the IMS.</td>
<td>8. Functioned in assigned role in the IMS.</td>
<td></td>
</tr>
</tbody>
</table>

Candidate’s Name: _________________________________  Station:  P ____  F ____

Evaluator's Signature: ____________________________  Date: ______________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Set: Complete a Basic Incident Report

OBJECTIVE:  NFPA 1001-2008, Chapter 6, Section 6.2.1.
            KNOWLEDGE:  p. 949
            SKILLS:  19-II-1 (p. 955)

Candidate Equipment Required: Writing Instruments.
Evaluator Equipment Required: Scenario, Blank Forms, Reference Documents.

Read To Candidate

At this station, you will be required to complete an Incident Report given a written scenario.
This is not a timed event, but you should complete the assignment as expeditiously as possible.

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

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>P F P F</td>
<td></td>
</tr>
</tbody>
</table>

Skill Steps

1. Determined appropriate codes to be used in completing the form from appropriate reference documents.

2. Correctly completed report.


Candidate’s Name: ______________________________ Station: P _____ F _____
Evaluator’s Signature: _________________________ Date: _____________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Set: Extinguish an Ignitable Liquid Fire

OBJECTIVE: NFPA 1001-2008, Chapter 6, Section 6.3.1.


KNOWLEDGE: pp. 734 – 749, 773 – 780

SKILLS: 14-II-1 (p. 755), 15-II-1 (p. 819)

Candidate Equipment Required: Full Personal Protective Clothing, SCBA.

Evaluator Equipment Required: Simulated liquid fire, foam concentrate, foam proportioner, water supply, attack line, and a fire department pumper.

**Read To Candidate**

At this station, given foam concentrates, a foam proportioning device, water supply, and attack line, you will be required to operate as a member of a team to extinguish an ignitable liquid fire.

You must select the proper type of foam concentrate for the burning fuel, assemble foam stream components, and then apply the foam stream on the surface of the fuel to create and maintain a foam blanket to extinguish the fire and prevent re-ignition.

Your team must maintain a foam stream for protection and continue facing the hazard while retreating to a safe haven.

This is not a timed event, but you should complete the assignment in a reasonable fireground time.

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

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>P F F F F F</td>
<td>P F F F F F</td>
</tr>
</tbody>
</table>

1. Selected proper type of foam concentrate for fuel.
2. Assembled foam stream components.
3. Safely approached the fire as a member of a team.
4. Applied foam stream to surface using appropriate application technique.
5. Extinguished fire.
6. Maintained foam blanket, preventing re-ignition.
7. Team retreated while facing hazard, reaching a safe haven.

Candidate’s Name: ____________________________ Station: P ____ F ____

Evaluator’s Signature: ____________________________ Date: ____________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Set: Coordinate an Interior Attack

OBJECTIVE: NFPA 1001-2008, Chapter 6, Section 6.3.2.


KNOWLEDGE: p. 792
SKILLS: 15-II-3 (p. 821)

Candidate Equipment Required: Full Personal Protective Clothing, SCBA.

Evaluator Equipment Required: Fire attack line, forcible entry tools, water supply, & fire department pumper.

Read To Candidate

At this station, given an attack line, forcible entry tools, and a simulated interior fire, you will be required to operate as a member of a team to coordinate an interior fire attack assignment.

You will be required to evaluate fire growth and development, utilize correct attack techniques, communicate plan of attack to team members, and establish and maintain team integrity. You must also choose appropriate tools for forcible entry.

You will also be responsible for incorporating/managing search and rescue and ventilation procedures.

You must recognize developing or hazardous building conditions, report hazards to attack team members and appraise the Incident Commander of changing conditions. (I will act as the Incident Commander.)

This is not a timed event, but you should complete the assignment in a reasonable fireground time.

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

Table:

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>F</td>
</tr>
</tbody>
</table>

1. Assembled & briefed team.

2. Correct attack techniques selected for given fire.

3. Evaluated & forecast fire’s growth & development.

4. Selected appropriate tools for forcible entry.

5. Incorporated search & rescue procedures into fire attack.

6. Incorporated ventilation procedures into fire attack.

7. Determined developing hazardous building or fire conditions.

Candidate’s Name: ________________________________ Station: P ____ F ____

Evaluator’s Signature: ________________________________ Date: ______________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Set: Control a Flammable Gas Cylinder Fire

OBJECTIVE: NFPA 1001-2008, Chapter 6, Section 6.1.2.


KNOWLEDGE: p. 779
SKILLS: 15-II-2 (p. 820)

Candidate Equipment Required: Full Personal Protective Clothing, SCBA.

Evaluator Equipment Required: Simulated flammable gas cylinder fire, attack lines, water supply, and a fire department pumper.

Read To Candidate

At this station, given an attack line and a simulated gas cylinder fire, you will operate as a member of a team to control a flammable gas cylinder fire outside a structure. You will function under the direction of a team leader whom I will appoint.

You must apply water using the technique directed by the team leader. You must constantly evaluate the cylinder’s integrity as well as changes in condition.

The team must approach and retreat while facing the cylinder and remaining behind protective fire streams.

You must operate fuel control valves to shut off the leaking fuel and ensure that you do not extinguish the flames until leaking gas is eliminated.

This is not a timed event, but you should complete the assignment in a reasonable fireground time.

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

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>F</td>
</tr>
</tbody>
</table>

1. Executed safe & effective advance & retreat.
2. Applied various water application techniques as directed by team leader.
3. Assessed cylinder integrity & changing cylinder conditions.
4. Operated control valves.
5. Chose effective procedures when conditions changed.
6. Flames were not extinguished prior to closing control valve.

Note: Because of the danger of controlling even simulated flammable gas cylinder fires, this test scenario must be conducted under the direct supervision of an officer (in the capacity of team leader) with the Fire Fighter II candidate acting as a team member only.

Candidate’s Name: ___________________________ Station: P ____ F ____

Evaluator’s Signature: _________________________ Date: ________________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Set: Protect Evidence of Fire Cause & Origin

OBJECTIVE: NFPA 1001-2008, Chapter 6, Section 6.3.4.

KNOWLEDGE: pp. 915 – 918
SKILLS: 18-II-1 (p. 920)

Candidate Equipment Required: Helmet, Safety Glasses, Safety Boots.
Evaluator Equipment Required: Burn scene or photographs of a burn scene; scenario; appropriate containers, barrier tape, etc.

Read To Candidate

At this station, given a burn scenario (or photographs of a burn scenario), you will be required to protect evidence of fire cause and origin.

You will be responsible for verbalizing to me anything that you cannot physically complete.

After observing the burn area (or photographs), you must state the possible fire cause and area of origin. You must be able to explain to me why you came to that conclusion or determination.

If you are unable to physically protect the evidence, you must verbalize to me how evidence would be protected until an investigator arrives.

This is not a timed event, but you should complete the assignment in a reasonable fireground time.

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

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
<th>Skill Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>F</td>
<td>1. Located the fire’s area of origin.</td>
</tr>
<tr>
<td>P</td>
<td>F</td>
<td>2. Recognized possible causes.</td>
</tr>
<tr>
<td>P</td>
<td>F</td>
<td>3. Took appropriate safeguards to protect possible evidence.</td>
</tr>
<tr>
<td>P</td>
<td>F</td>
<td>4. Did not unnecessarily move possible evidence.</td>
</tr>
</tbody>
</table>

Candidate’s Name: ________________________________ Station: P ____ F ____
Evaluator’s Signature: __________________________ Date: ______________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Set: Extricate a Victim Entrapped in a Motor Vehicle

OBJECTIVE: NFPA 1001-2008, Chapter 6, Section 6.4.1.


KNOWLEDGE: pp. 349 – 361, 387 - 390
SKILLS: 8-II-2 (pp. 387 – 390)

Candidate Equipment Required: Full Personal Protective Clothing.

Evaluator Equipment Required: Salvaged automobile (with most window glass intact), standard complement of powered rescue tools, hand tools, blocking/cribbing material, and rescue manikin. NOTE: Vehicles must have gas tanks and batteries removed.

Read To Candidate

At this station, given a simulated motor vehicle accident with an entrapped victim, stabilization equipment, and extrication tools, operating as a member of a team, you will be required to extricate the victim and assist with rescue operations.

You will be required to conduct a scene size up, establish safety barriers, assess the need for extrication, determine the condition of vehicle, and identify extrication tasks.

The vehicle must be stabilized and supplementary restraints appropriately dealt with. The victim must be accessed, assessed and protected.

The victim must be disentangled without further injury using appropriate tools and techniques.

This is not a timed event, but you should complete the assignment in a reasonable fireground time.

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

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
</tr>
</thead>
<tbody>
<tr>
<td>P F P F</td>
<td>P F</td>
</tr>
</tbody>
</table>

Skill Steps

1. Safely operated hand & power tools.
2. Effectively & appropriately used cribbing and/or shoring material.
3. Chose & applied effective techniques for moving or removing (as appropriate):
   - Vehicle roof
   - Doors
   - Windshield
   - Side & rear glass
   - Steering wheel & column
   - Dashboard
4. Supplemental restraint systems assessed & appropriately dealt with.
5. Victim appropriately protected throughout extrication operation.

Candidate’s Name: ________________________________
Station: P   F
Evaluator’s Signature: ____________________________
Date: ______________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Set: Assist Rescue Operation Teams

OBJECTIVE: NFPA 1001-2008, Chapter 6, Section 6.4.2.


KNOWLEDGE: pp. 361 – 374
SKILLS: 8-II-3 (p. 391)

Candidate Equipment Required: Full Personal Protective Clothing.

Evaluator Equipment Required: Cache of rescue tools & equipment; barrier tape, cones, signs, etc.

Read To Candidate

At this station, you will be required to assist a rescue operation team. You will be directed to accomplish various tasks commensurate to the level of training required of a Level II Firefighter.

This is not a timed event, but you should complete the assignment in a reasonable fireground time.

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

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
<th>Skill Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>F</td>
<td>1. Identified &amp; retrieved correct tools and equipment as directed.</td>
</tr>
<tr>
<td>P</td>
<td>F</td>
<td>2. Established public safety barriers.</td>
</tr>
<tr>
<td>P</td>
<td>F</td>
<td>3. Assisted rescue team as an assigned member.</td>
</tr>
</tbody>
</table>

Candidate’s Name: __________________________________________
Station: P ____ F ____

Evaluator's Signature: _______________________________________
Date: ______________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Set: Maintain Power Plants, Power Tools, & Lighting Equipment

OBJECTIVE: NFPA 1001-2008, Chapter 6, Section 6.5.4.


KNOWLEDGE: pp. 330 – 334
SKILLS: 8-II-1 (p. 386)

Candidate Equipment Required: Station Uniform, Safety Glasses.

Evaluator Equipment Required: Power plant, lighting equipment, power cords, power tools (e.g., chain saw, rotary saw, ventilation saw, extrication power unit, etc.), maintenance hand tools, and appropriate manufacturer’s equipment instruction manuals.

Read To Candidate

At this station, given power plants, lighting equipment, and power tools, you will be required to check for damage, test for function, and perform operator-level maintenance per the manufacturer’s instructions.

You must ensure the tool or equipment is clean and functional, any corrective actions required are completed, and identify any equipment that is non-operational and cannot be further corrected at the operator-level of maintenance.

This is not a timed event, but you should complete the assignment as expeditiously as possible.

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

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
<th>Skill Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>F</td>
<td>P</td>
</tr>
<tr>
<td>1. Selected appropriate hand tools to perform maintenance &amp; checks.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Followed manufacturer’s instructions &amp; guidelines.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Operated power plants, power tools, &amp; lighting equipment.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Candidate’s Name: ____________________________ Station: P _____ F _____

Evaluator’s Signature: ____________________________ Date: ____________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Skill Set: Perform Annual Service Test on Fire Hose

**Objective:**
NFPA 1001-2008, Chapter 6, Section 6.5.5.

**Reference:**

**Knowledge:**
pp. 680 – 682

**Skills:**
13-II-1 (pp. 712 – 713)

**Candidate Equipment Required:** Fire helmet, Gloves, Boots.

**Evaluator Equipment Required:** Fire department hose, spanner wrenches, marking device (permanent marker or ballpoint pen), watch, fire department pumper, water source, and nozzles.

---

**Read To Candidate**

At this station, you will be required to perform an annual service test on fire hose.

While you will not be required to operate the pumper, you must direct the pump operator as appropriate.

This is **not** a timed event, but you should complete the assignment as expeditiously as possible.

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

---

<table>
<thead>
<tr>
<th>1st Attempt</th>
<th>2nd Attempt</th>
<th>Skill Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>F</td>
<td>P</td>
</tr>
<tr>
<td>_____</td>
<td>_____</td>
<td>1. Visually inspected hose for possible damage.</td>
</tr>
<tr>
<td>_____</td>
<td>_____</td>
<td>2. Checked couplings for damage, function, &amp; gaskets.</td>
</tr>
<tr>
<td>_____</td>
<td>_____</td>
<td>3. Marked hose at couplings to identify potential coupling slippage.</td>
</tr>
<tr>
<td>_____</td>
<td>_____</td>
<td>4. Charged the line, bled off air, and tightened leaking couplings.</td>
</tr>
<tr>
<td>_____</td>
<td>_____</td>
<td>5. Directed pump operator to operate pump at appropriate test pressure and hold it for 5 minutes.</td>
</tr>
</tbody>
</table>

**Note:** Service test pressures used during this test station are determined by the date of manufacture of the hose and NFPA 1962. Fire hose that is not clearly marked with the date of manufacture and/or the required service test pressure will not be used at this station.

---

**Candidate's Name:** ________________________________  **Station:**  **P ____ F ____**

**Evaluator's Signature:** ________________________________  **Date:** ______________

If the candidate FAILS this station after both attempts, provide comments on the back of this sheet and turn it in to the Exam Site Coordinator.
Firefighter II Local Verification & Mask Fit Form

NFPA 1001 – 2008

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 1001 – 2008, JPR 6.2.1, Complete a Basic Incident Report:
The candidate has successfully demonstrated the ability to operate department computers and other ancillary equipment to complete basic incident reports.

3. NFPA 1001 – 2008, JPR 6.5.2, Present Fire Safety Information to Station Visitors or Small Groups:
The candidate has successfully demonstrated the ability to successfully use prepared materials in presenting safety information to station visitors or small groups and then document these presentations in department records.

4. NFPA 1001 – 2008, JPR 6.5.4, Maintain Power Plants, Power Tools, & Lighting Equipment:
The candidate has successfully demonstrated the ability to successfully complete departmental equipment maintenance records and comply with departmental maintenance reporting procedures.

5. NFPA 1001 – 2008, JPR 6.5.5, Perform Annual Service Test on Fire Hose:
The candidate has successfully demonstrated the ability to successfully complete departmental equipment maintenance records for annual service testing of fire hose.

I have reviewed the candidate’s file and affirm that the candidate identified above has met the requirements listed in paragraphs 1 through 4 above. All requirements have been successfully conducted and completed per local department protocol. 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 or Training Officer Signature of Fire Chief or Training Officer

Date: ____________________________ Department: ____________________________

Fire Department Phone Number: (________) _______ - __________________________

Mail Completed Form To: Kansas Fire & Rescue Training Institute, KU Continuing Education, 1515 St Andrews Drive, Lawrence, KS 66047

01/09 KF&RTI
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NFPA 1001-2008 Fire Fighter II  

Skill Set: Private Dwelling Fire & Safety Survey

OBJECTIVE: NFPA 1001-2008, Chapter 6, Section 6.5.1.

KNOWLEDGE: pp. 961, 976 – 982
SKILLS: 20-II-2 (p. 996)

Candidate Equipment Required: Private Dwelling Fire & Safety Survey Report, Writing implement.
Evaluator Equipment Required: Project to be submitted to KFRTI for grading.

Task for Candidate

Given a blank Private Dwelling Fire & Safety Survey Report (found on page 27) and writing implement, you will be required to conduct a safety survey of a private dwelling and annotate the Private Dwelling Fire & Safety Survey Report with your findings.

Evaluation Items

You will be evaluated on your skills to complete forms, recognize hazards, match findings to preapproved recommendations, and effectively communicate your findings to occupants or referrals.

Instructions to Candidate

You are to conduct a Private Dwelling Fire & Safety Survey in a private dwelling OTHER THAN YOUR OWN. It may be occupied by a relative or friend, but it may not be the residence at which you live.

The residence may be a free-standing house, an apartment, or a condominium.

You MUST have permission of the occupant to conduct this survey and the occupant must sign the completed survey. You should leave a copy of the signed & completed form with the occupant.

You must use the applicable local ordinances in conducting your survey (open burning, chemical storage, etc.)

You must submit the ORIGINAL signed & completed survey to the Kansas Fire & Rescue Training Institute as part of your certification. It is recommended that you KEEP A COPY in the event that the copy you submit is lost.

You must submit this homework project with a completed Fire Chief’s Project Verification form. Failure to do so will result in the homework project being returned to the candidate without action. This form may be found at page 27 of this study guide.

You have three (3) calendar months from the date you complete the written component of the Fire Fighter II certification program for this homework project to arrive at the Kansas Fire & Rescue Training Institute. Failure to meet this deadline will constitute the failed first of two attempts to successfully complete this project.

This project must be YOUR OWN ORIGINAL WORK.
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Certification - Homework Project No. 1 Submission
Private Dwelling Fire & Safety Survey

Administrative Data

Candidate’s Name: ________________________________
Candidate’s Department: __________________________
Location of Firefighter II 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 KF&RTI Firefighter II Study Guide.

Signature: ____________________________________

Chief Officer’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 KF&RTI Firefighter II Study Guide.

Signature: ____________________________________
Printed Name: _________________________________
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## Private Dwelling Fire & Safety Survey Report

**Occupant Name**: 
**Telephone**: 
**Street Address**: 

1. **Hallways**
   - a. Blocked ...................................
   - b. Not lighted ................................

2. **Combustibles**
   - a. Excessive storage ..........................
   - b. Improper storage ..........................

3. **Electric Service**
   - a. Overloaded ................................
   - b. Defective ...................................
   - c. Extension cords ............................
   - d. Improper wiring ...........................
   - e. Under-rated breakers/fuses ..............

4. **Explosives, Ammunition, Weapons**
   - a. Improper storage ..........................
   - b. Lacking required permits .................
   - c. Unlocked storage ..........................

5. **Flammable Liquids**
   - a. Improper storage ..........................
   - b. Lacking safety cans ........................
   - c. Too close to open flames .................

6. **Heating System**
   - a. Needs repair/service ......................
   - b. Combustion air inadequate ...............  
   - c. Flue ........................................
   - d. Room enclosure ............................

7. **Carbon Monoxide Detector(s)**
   - a. Detector cell out of date ...............  
   - b. Improperly installed ......................
   - c. Not functioning ...........................

8. **Chemicals**
   - a. Improper storage ..........................
   - b. No permit .................................

9. **Stairways**
   - a. Blocked ...................................
   - b. Missing handrail ..........................
   - c. Loose stair treads ........................

10. **Doors**
    - a. Blocked ...................................
    - b. Lack of solid core door to garage .......
    - c. Lack of bedroom doors ..................

11. **Portable Fire Extinguisher(s)**
    - a. Uncharged or discharged ...............  
    - b. Not hung ..................................
    - c. Blocked ..................................
    - d. Wrong type ................................
    - e. Inadequate ................................
    - f. Missing ..................................

12. **Emergency & Fire Escapes**
    - a. Defective ..................................
    - b. Blocked ..................................
    - c. Inadequate/missing secondary means of escape from bedrooms ...............

13. **Address**
    - a. House not marked ..........................
    - b. Mailbox not marked on both sides .......
    - c. Numbers not visible at night ..........  

14. **Fireplace(s)**
    - a. Broken masonry ..........................
    - b. Excessive creosote build-up ............
    - c. Lacking screen ...........................
    - d. Combustibles too close .................

15. **Smoke Detector(s)**
    - a. Not present ..............................
    - b. Improperly installed ....................
    - c. Lacking charged batteries ..............
    - d. Not functioning ..........................

16. **Outside Burning**
    - a. No permit ...............................  
    - b. Out of allowed hours ...................
    - c. Improper container ........................
    - d. Too close to structures .................

### Remarks (Reference item number from checklist above)

---

**A copy of this Fire & Safety Survey will be maintained as part of the inspector's class record.**

**Signature of Occupant**: 

---

**Inspector Name**: 
**Department**: 
**Signature**: 
**Date**: 

---

Kansas Fire & Rescue Training Institute  
July 2009
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Skill Set: Prepare a Pre-Incident Survey

Objective:
NFPA 1001-2008, Chapter 6, Section 6.5.3.

Reference:

Knowledge:
pp. 961 – 976

Skills:
20-II-1 (p. 995)

Candidate Equipment Required:
Tape measure(s), sketch paper, pencils, ruler(s)/scale(s), camera (optional), identification, blank Pre-Incident Survey Forms.

Evaluator Equipment Required:
Project to be submitted to KFRTI for grading.

Task for Candidate
Given blank Pre-Incident Survey forms (beginning on page 39) and appropriate equipment, you will be required to conduct a Pre-Incident Survey of a (1) commercial occupancy, (2) governmental occupancy (other than a fire station), (3) place of worship, or (4) commercial daycare facility and complete the Pre-Incident Survey forms with your findings.

Evaluation Items
You will be evaluated on your skills to identify the components of fire suppression & detection systems; sketch the site, buildings, & special features; detect hazards & special considerations to include in the pre-incident sketch; and complete all related forms.

Instructions to Candidate
You MUST have permission of the occupancy's owner or manager to conduct this survey and the owner or manager must sign the completed survey. You should leave a copy of the signed & completed form with the owner or manager. You should schedule an appointment with the owner or manager and be on time. Dress and act professionally as you are representing your department and the fire service.

It is recommended that the selected occupancy be in your fire department's assigned response area. You must use the applicable local ordinances in conducting your survey (open burning, chemical storage, etc.)

Downloadable blank forms and examples of Pre-Incident Surveys may be downloaded from the KFRTI web site by going to http://www.continuinged.ku.edu/fire/certification.php. A set of blank forms is also included at the end of this study guide. You must submit the ORIGINAL signed & completed survey to KFRTI as part of your certification. It is recommended that you KEEP A COPY in the event that the copy you submit is lost.

You must submit this homework project with a completed Project Verification form. Failure to do so will result in the homework project being returned to the candidate without action. This form may be found in the Blank Packet for Pre-Incident Plan found at the end of this study guide.

You have three (3) calendar months from the date you complete the written component of the Fire Fighter II certification program for this homework project to arrive at KFRTI. Failure to meet this deadline will constitute the failed first of two attempts to successfully complete this project.

This project must be YOUR OWN ORIGINAL WORK. The only assistance you may receive is someone holding the other end of the measuring tape when doing the actual survey. If you have questions, you may contact the KFRTI Certification Program Manager at Toll Free 866-804-8841.
Preincident Plan

Homework Project No. 2

for

Firefighter II Certification
CHECKLIST FOR PREPARING FIELD SKETCHES & REPORT DRAWINGS

- North pointing arrow.
- Date of survey.
- Building name (if applicable).
- Building address.
- Owner’s or manager’s name.
- Name(s) of access streets.
- Exposure street numbers, construction, and use.
- Distances to exposures.
- Street water mains and/or location & capacity of nearest hydrant(s).
- Building designation (occupancy numbers and/or letters).
- Exterior building dimensions.
- Windows, doors, and key obstructions.
- Fire walls and blank walls.
- Stairways (open, closed, and emergency.)
- Elevators.
- Furnaces or boilers.
- Exterior ornamentation such as marquees, parapets, awnings, and billboards.
- Fire escapes and emergency exits.
- Chimneys and stacks.
- On-site water supplies (size, capacity, source, pump, tank, etc.)
- Underground fuel tanks and septic systems.
- Low-hanging utility lines that may cause overhead obstructions.
- Areas protected by sprinklers.
- FDC and/or wall hydrants.
- Risers (with sizes) and/or standpipes (with sizes.)
- Check and/or gate valves.
- Building construction type and any modifications made.
- Floor construction.
- Significant under-floor conditions.
- Roof type, support type (truss or stick built), and composition.
- Significant ground slope and access problems.
- Hazardous materials storage & NFPA 704 designation.
- Sectional drawing(s) if appropriate.
- Legend showing any uncommon abbreviations and/or symbols used.
- Show only non-movable building components (e.g., counters, fixed warehouse racks, etc.)

PAGES 31 THRU 38 ARE PROVIDED FOR YOUR INFORMATION ONLY. DO NOT TURN THEM IN WITH YOUR PROJECT
**FIRE PROTECTION**

- **Sprinkler Riser (Size indicated)**
- **Automatic Sprinklers throughout contiguous sections of single risk**
- **Automatic Sprinklers on all floors of building**
- **Automatic Sprinklers in part of building only (Note under symbol indicates protected portion of building)**
- **Siamese Fire Department Connection (Indicate size if other than 2-1/2")**
- **Single 4-inch Fire Department Connection**
- **Free-standing Siamese Fire Department Connection**

**MISCELLANEOUS**

- **Not Sprinkled**
- **Automatic Chemical Sprinklers**
  - Chemical Sprinklers in part of building only (Note under symbol indicates protected portion of building)
- **Vertical Pipe or Standpipe**
- **Automatic Fire Alarm**
- **Water Tank**
- **Exterior Fire Escape (Plan view only)**
- **Fire Alarm Box**
- **Single Hydrant**
- **Double Hydrant**
- **Triple Hydrant**
- **Dry Hydrant**
- **Water Pipes of the High Pressure Fire Service (Size indicated)**
- **Water Pipes of the High Pressure Fire Service as shown on Key Map (Size indicated)**
- **Public Water Service (Size indicated)**
- **Private Water Service (Size indicated)**
- **Utility meter (Type indicated)**
- **Electric service panel or fuse box**
- **Valve (General)**
- **Valve in underground pit**
- **OS&Y Valve**
- **Grade (ground) level**

**UNDERGROUND UTILITY SERVICE LINES**

- **Water line (Size indicated)**
- **Sewer line**
- **Power line**
- **Gas line**

**HYDRANT COLOR CODE**

- **Light Blue**: Class AA – 1,500 gpm or greater
- **Green**: Class A – 1,000 – 1,499 gpm
- **Orange**: Class B – 500 – 999 gpm
- **Red**: Class C – Less than 500 gpm

**MISCELLANEOUS**

- **Utility meter (Type indicated)**
- **Electric service panel or fuse box**
- **Valve (General)**
- **Valve in underground pit**
- **OS&Y Valve**
- **Grade (ground) level**
COLOR CODE FOR WALL CONSTRUCTION

- **Brown** – Fire-resistant protected steel
- **Red** – Brick or hollow tile
- **Yellow** – Wood frame or stucco
- **Blue** – Concrete, stone, or hollow concrete block
- **Gray** – Noncombustible unprotected steel

**WALL CONSTRUCTION**

- Wall (Framed wood or steel)
- Brick wall
- Concrete block wall
- Poured concrete wall

**VERTICAL OPENINGS**

- Skylight lighting top story only
- Skylight lighting 3 stories (Number indicates stories)
- Skylight with wired glass in metal sash
- Open elevator
- Frame enclosed elevator
- Frame enclosed elevator with traps
- Frame enclosed elevator with self-closing traps
- Concrete block enclosed elevator with traps
- Tile enclosed elevator with self-closing traps
- Brick enclosed elevator with wired glass door
- Open hoist
- Hoist with traps
- Open hoist (Basement to 1st floor)
- Enclosed stairwell with fire door (Plan view only)
- Open stairs (Plan view only)
- Stairs (Elevation view only)

**HORIZONTAL OPENINGS**

- Sliding bypass doors
- Sliding door
- Pocket door
- Sliding bypass doors
- Sliding bypass doors
- Sliding bypass doors
- Door (Hinged)
- Overhead door (Roll-up or track indicated)
- Fixed window
- Single double-hung window
- Double double-hung window
- Double casement window
- Casement window
SITE FEATURES

Buildings.
1. The exterior walls of buildings are outlined in single thickness lines if other than fire-rated, and double thickness if fire-rated.
2. The perimeter of canopies, loading docks, and other open-walled structures are shown by broken lines.

Railroad Tracks. Each track is shown by a single line with crossed dashes.

Paved Roads & Streets. Paved roads & streets are shown by two parallel solid lines.

Gravel Roads. Gravel roads are shown by two parallel dashed lines.

Dirt Roads. Dirt roads are shown by two parallel dotted lines.

Bodies of Water. Rivers, streams, lakes, ponds, etc., are outlined. Direction of flow is indicated by arrows.

Fences. Fences are shown as lines with “x’s” every half-inch. Gates are shown.

Overhead Wires. Low-hanging overhead wires that may cause overhead obstructions are indicated by lines with open circles every half-inch.

Property Lines.

Fire Department Access.

Parking Lots. Parking lots are indicated by type of surface:

Asphalt or concrete
Gravel
Dirt

North Arrow.
## COMMON ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABV</td>
<td>Above</td>
</tr>
<tr>
<td>ACET</td>
<td>Acetylene</td>
</tr>
<tr>
<td>AL</td>
<td>Aluminum</td>
</tr>
<tr>
<td>ASB</td>
<td>Asbestos</td>
</tr>
<tr>
<td>AUTO</td>
<td>Automatic</td>
</tr>
<tr>
<td>AFA</td>
<td>Automatic Fire Alarm</td>
</tr>
<tr>
<td>AS</td>
<td>Automatic Sprinklers</td>
</tr>
<tr>
<td>AVE</td>
<td>Avenue</td>
</tr>
<tr>
<td>BR</td>
<td>Brick</td>
</tr>
<tr>
<td>BLDG</td>
<td>Building</td>
</tr>
<tr>
<td>CI</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>CB</td>
<td>Cinder Block</td>
</tr>
<tr>
<td>COMPR</td>
<td>Composition Roof</td>
</tr>
<tr>
<td>CONC</td>
<td>Concrete</td>
</tr>
<tr>
<td>DIA</td>
<td>Diameter</td>
</tr>
<tr>
<td>DH</td>
<td>Double Hydrant</td>
</tr>
<tr>
<td>E</td>
<td>East</td>
</tr>
<tr>
<td>ELEV</td>
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<td>Fuel Oil (Label with grade number)</td>
</tr>
<tr>
<td>GAL</td>
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</tr>
<tr>
<td>GPM</td>
<td>Gallons Per Minute</td>
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<td>GASOLINE</td>
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<td>GEN</td>
<td>Generator</td>
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<tr>
<td>GL</td>
<td>Glass</td>
</tr>
<tr>
<td>GB</td>
<td>Glass Block</td>
</tr>
<tr>
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<td>Gypsum Board (Drywall)</td>
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<tr>
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</tr>
<tr>
<td>HC</td>
<td>Hose Connection</td>
</tr>
<tr>
<td>HYD</td>
<td>Hydrant</td>
</tr>
<tr>
<td>IN</td>
<td>Inch, Inches</td>
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<tr>
<td>IR</td>
<td>Iron</td>
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<tr>
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<tr>
<td>LIQ</td>
<td>Liquid</td>
</tr>
<tr>
<td>LOX</td>
<td>Liquid Oxygen</td>
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<td>MGR</td>
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<td>MAX CAP</td>
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<td>MT</td>
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<td>GAS</td>
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<td>NO</td>
<td>Normally Open</td>
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<td>North</td>
</tr>
<tr>
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<td>Number</td>
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<td>OS&amp;Y</td>
<td>Outside Screw &amp; Yoke Valve</td>
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<td>PLATF</td>
<td>Platform</td>
</tr>
<tr>
<td>LB</td>
<td>Pound (Unit of force)</td>
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<tr>
<td>PSI</td>
<td>Pounds Per Square Inch</td>
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<tr>
<td>PRESS</td>
<td>Pressure</td>
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<td>PROT ST</td>
<td>Protected Steel</td>
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<tr>
<td>RR</td>
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<td>Reinforced Concrete</td>
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<td>Room</td>
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<td>SSR</td>
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<td>SST</td>
<td>Stainless Steel</td>
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</tr>
<tr>
<td>STUC</td>
<td>Stucco</td>
</tr>
<tr>
<td>SATL</td>
<td>Suspended Acoustical Tile Ceiling</td>
</tr>
<tr>
<td>TK ___ GAL</td>
<td>Tank (Label capacity in gallons)</td>
</tr>
<tr>
<td>TB</td>
<td>Tile Block</td>
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<td>TIMBR</td>
<td>Timber</td>
</tr>
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<td>Tin Clad</td>
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<td>TH</td>
<td>Triple Hydrant</td>
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<tr>
<td>TR</td>
<td>Truss</td>
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<tr>
<td>UND</td>
<td>Under</td>
</tr>
<tr>
<td>VEN</td>
<td>Veneer</td>
</tr>
<tr>
<td>V</td>
<td>Volts</td>
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<td>WLH</td>
<td>Wall Hydrant</td>
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<td>West</td>
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<tr>
<td>WGL</td>
<td>Wire Glass</td>
</tr>
<tr>
<td>WD</td>
<td>Wood</td>
</tr>
<tr>
<td>WD FR</td>
<td>Wood Frame</td>
</tr>
<tr>
<td>YD</td>
<td>Yard</td>
</tr>
</tbody>
</table>
Blank Packet for Preincident Plan

• Use the Preincident Survey Forms on the following pages to complete the project.

• Use as many floor plan forms as required. Use the Basement floor plan only if there is a basement.
Firefighter II Certification – Homework Project No. 2 Submission

Pre-Incident Survey

Administrative Data
Candidate’s Name: ____________________________________________
Candidate’s Department: _______________________________________
Location of Firefighter II 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 KF&RTI Firefighter II Study Guide.

Signature: ________________________________________________

Owner/Manager’s Verification
I verify that the candidate listed above has my permission to complete the attached Pre-Incident Survey on my property.

Signature: ________________________________________________
Printed Name: ____________________________________________

Chief Officer’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 KF&RTI Firefighter II Study Guide.

Signature: ________________________________________________
Printed Name: ____________________________________________
# General Information

## Emergency Point of Contact:

<table>
<thead>
<tr>
<th>Name:</th>
<th>Daytime Telephone:</th>
<th>After Hours Telephone:</th>
</tr>
</thead>
</table>

## Occupancy Type:

<table>
<thead>
<tr>
<th>Construction Type:</th>
<th>No. of Floors:</th>
<th>Year Built:</th>
<th>Elevators:</th>
<th>Footprint Square Footage:</th>
</tr>
</thead>
</table>

## Roof Construction:


## Fire Protection System:


## Location of Fire Escapes:


## Location & Capacity of Fire Hydrants or Other Water Source:


## Location of Utility Controls:


## Exposure Hazards:


## Estimated Fire Flow Required:

\[
\text{Fire Flow: GPM} = \frac{(L \times W)}{3}
\]

\[
\begin{align*}
\text{25% Involvement} & : (0.25 \times \text{GPM}) \\
\text{50% Involvement} & : (0.5 \times \text{GPM}) \\
\text{75% Involvement} & : (0.75 \times \text{GPM})
\end{align*}
\]

\[
\begin{align*}
\text{__________ GPM} & \quad \text{__________ GPM} & \quad \text{__________ GPM}
\end{align*}
\]

## NFPA® 704 Hazard Rating System

![NFPA® 704 Hazard Rating System Diagram](image)

## Additional Hazards or Watch Conditions:


Rev: Jul 09
Plot Plan
Floor Plan