

Minnesota Fire Service Certification

Live Fire Instructor In Charge

NFPA 1041 - 2019 Edition

Prerequisite: Live Fire Instructor

A completed application and payment plan are required one week before taking the Live Fire Instructor in Charge certification test. The candidate must have participated as a Live Fire Instructor at a minimum of five structure burns and hold current certifications for Fire Fighter II, Fire Instructor II, Officer I, and Live Fire Instructor. (Must submit attestation of instructing five structure burns with application.) The candidate must have the knowledge outlined in NFPA 1041, Standard for Fire and Emergency Services Instructor Professional Qualifications. There are several ways to obtain the knowledge and skills necessary to pass the exam, such as a technical college program, an individual fire department training, home study, etc. The Minnesota Fire Service Certification Board does not provide any training, nor do we provide examination reviews.

Standard

NFPA 1041, Standard for Fire and Emergency Services Instructor Professional Qualifications, 2019 Edition. The questions and skills are designed to test the candidate on the knowledge and proficiencies as outlined in NFPA 1041 for Live Fire Instructor in Charge. All questions have been referenced to a specific standard in NFPA 1041.

Reference List

The textbooks and reference documents listed below were used in developing the test questions and the practical exams for the certification test. The candidate should have knowledge of the information contained in these books:

- Jones and Bartlett, Live Fire Training, Principles and Practice to NFPA 1403, Second Edition
- NFPA 1041, Standard for Fire and Emergency Services Instructor Professional Qualifications, 2019 Edition
- NFPA 1403, Standard on Live Fire Training Evolutions, 2018 Edition
- MBFTE Live Burn Plan, 2020 Edition

Test

The test is administered with Live Fire Instructor and need only be repeated if the Standard year has changed. The practical test will require the candidate to complete the 6 of the 9 skills to prove proficiency in the areas outlined in NFPA 1041, 2019 Edition.

Test Cost

\$250.00

Re-certification

- Every three years.
- Requires 60 hours of Live Burn training and/or activity and 12 hours of continuing education for every three-year period.
- Re-certification cost is \$26.25.

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Requirements:

1. **Required prerequisites:** The candidate must have participated as a Live Fire Instructor at a minimum of five structure burns and hold certifications for Fire Fighter II, Fire Instructor II and Officer I. (Must submit attestation of instructing five structure burns with application.)
2. Completed application form and fee of \$250.00 is covered.
3. Candidate will be required to complete mandatory skills 1, 5, 7 and 9 along with 2 of the remaining 5 skills which will be chosen at random by the evaluator.
4. Candidate must submit a Live Burn Plan two weeks prior to burn.
5. Candidate will have 6 months to complete practical and written test.

SKILL STATION 1

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PRE-BURN PLAN

Candidate Name: _____

Evaluator: _____

Reference: NFPA 1041 - 2019 Edition: 8.2.1 (a) (b)

Prepare a pre-burn plan in compliance with NFPA 1403, given the AHJ policy and procedures for live fire training evolutions, the facility policies applicable to evolutions, learning objectives and all conditions affecting the evolution, so that learning objectives are developed, the plan meets all AHJ requirements, existing conditions are identified, and the plan meets the developed learning objectives.

The Candidate will prepare a pre-burn plan.

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Develop written learning objectives for live fire exercise	_____ 10
All features of the exercise are indicated on/in the pre-burn plan	_____ 10
Reviews training plan with instructional staff	_____ 10
All facets of the pre-burn are discussed	_____ 10
Assignments established for all instructors/participants	_____ 10
Instructors/participants required to have familiarity with structure or prop	_____ 10
Adjacent properties affected by exercise shall be notified	_____ 10
A walk-through of structure is required for all participants	_____ 10
Streets/highways shall be surveyed for training session affects and made safe	_____ 10
Rescue manikins may be used, and uniquely marked/identified	_____ 10
No persons shall play the role of a victim in live fire training evolutions	_____ FAIL

Total Points 100

Candidate Score _____

SKILL STATION 2

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CONDUCT A PRE-BURN INSPECTION

Candidate Name: _____

Evaluator: _____

Reference: NFPA 1041 - 2019 Edition: 8.2.2 (a) (b)

Conduct a pre-burn inspection of the structure or prop, given a structure or prop for live fire training, so that structural damage is identified, structural preparation is determined and safety concerns are identified and addressed prior to the live burn evolution.

The candidate will conduct a pre-burn inspection of the training structure or prop.

Did the candidate, as instructed, demonstrate competency in the following:

Deduction Points

Exterior Inspection:

Identify surrounding exposures	_____	10
Insure safe pathways for entrance and exit	_____	10
Identify and disconnect any utilities	_____	10

Interior Inspection:

Identify primary and secondary/emergency exit	_____	10
Check floor(s) for integrity	_____	10
Check and repair breaches in walls and ceiling	_____	10
Safeguard open stairways	_____	10
Remove highly combustible wall covering	_____	10
Check chimney(s) if present for stability	_____	10
Complete MPCA asbestos inspection	_____	10

Total Points 100

Candidate Score _____

SKILL STATION 3

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CALCULATE MINIMUM WATER SUPPLY AND MINIMUM WATER FLOW APPLICATION RATE

Candidate Name: _____

Evaluator: _____

Reference: NFPA 1041 - 2019 Edition: 8.2.3 (a) (b) and 8.2.4 (a) (b)

Calculate the minimum water supply required for a live fire evolution in compliance with NFPA 1403, section 4.12, given a structure or prop, so that the required minimum water supply is determined.

Also, calculate the minimum water flow application rate for a live fire evolution in compliance with NFPA 1403, section 4.12, given a structure or prop so that the required minimum water flow rate is determined.

The candidate will calculate minimum water supply and minimum water flow application rates. The candidate will also demonstrate/describe how to insure these minimum requirements.

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Minimum Water Supply:	
Calculate minimum water supply for structure or prop	_____ 20
Determine adequate water supply source	_____ 20
Minimum Water Flow Application Rate:	
Calculate minimum water flow application rate	_____ 20
Additional factors that may affect flow rate	_____ 20
Safety related actions to help insure minimum flow rate	_____ 20
	Total Points 100
	Candidate Score _____

SKILL STATION 4

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INSTRUCTIONAL TASKS AND DUTIES

Candidate Name: _____

Evaluator: _____

Reference: NFPA 1041 - 2019 Edition: 8.3.1 (a) (b)

Identify and assign instructional tasks and duties in compliance with NFPA 1403, given staffing assignments, learning objectives, and instructor capabilities, so that safety officer(s), ignition officer, and crew/functional lead(s) are designated and rotated through duty assignment, instructor(s) implement participant accountability, proper instructor/student ratios are maintained, instructor(s) monitor and supervise all participants during evolutions, and awareness of changing conditions that impact training is maintained.

The Candidate will identify and assign instructional staff duties and tasks.

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Insure instructors meet minimum job performance objectives for assignments	_____ 10
Determine instructional staffing needs	_____ 10
Consider instructor staffing levels based on weather	_____ 10
Assign instructional tasks and duties based on instructor abilities	_____ 10
Assign instructors to functional crews based on number of students	_____ 10
Allow for rehabilitation time for instructor(s)	_____ 10
Instructors shall establish personal accountability reports of crew when entering and exiting structure or prop	_____ 10
Instructors must rotate ignition officer role	_____ FAIL
Instructors must supervise actions of respective crew responsibilities	_____ 10
Instructors will conduct a feedback session with crew after live burn evolution	_____ 10
Must be aware of changing structural conditions based on live fire impingement on the structure or prop	_____ 10

Total Points 100

Candidate Score _____

SKILL STATION 5

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PRE-BURN BRIEFING

Candidate Name: _____

Evaluator: _____

Reference: NFPA 1041 - 2019 Edition: 8.3.2 (a) (b)

The candidate shall conduct a pre-burn briefing session, given the pre-burn plan, so that all facets of the evolutions(s) are identified, training objectives are covered, a walk-through of the structure or prop with all participants is performed, and established safeguards and emergency procedures are identified.

Candidate shall conduct a pre-burn briefing.

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Insures completion of Participant Training Verification Form	_____ 10
Identifies instructional staff and safety officer	_____ 10
Reviews pre-burn plan (structure or prop floor plan)	_____ 10
Identifies entrance and exit points	_____ 10
Reviews learning objectives for the training exercise	_____ 10
Identifies evolution safety concerns	_____ 10
Identifies communications channels/talk groups	_____ 10
Identifies types of evolutions that will be performed	_____ 10
Conducts structure or prop walk-through with each participant	_____ 10
Identifies process of matching participants and students for evolutions	_____ 10
Establishes and maintains exercise accountability system	_____ FAIL
Establishes MAY DAY signal for exercise	_____ FAIL

Total Points 100

Candidate Score _____

SKILL STATION 6

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LIVE FIRE TRAINING REHABILITATION

Candidate Name: _____

Evaluator: _____

Reference: NFPA 1041 - 2019 Edition: 8.3.3 (a) (b)

The candidate will maintain the training environment to safeguard participants, given participants in a live fire training evolution, so that signs and symptoms of fatigue and distress are recognized, action is taken to prevent injuries, and actions are documented.

Candidate will develop and maintain a safe environment for live fire training participants.

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Safety Officer appointed	_____ FAIL
A rehabilitation area is established	_____ 10
Basic life support emergency medical services personnel onsite	_____ 10
Baseline vital signs are recorded for each participant prior to training	_____ 10
A safety briefing is conducted prior to beginning live fire training	_____ 10
First report of injury procedures are discussed and explained	_____ 10
Students are instructed to stay hydrated	_____ 10
Students and instructors should be instructed to report to the rehabilitation area after participating in a live fire training evolution	_____ 10
Medical evaluation/monitoring conducted in rehabilitation area	_____ 10
Students are held out of additional training if signs and symptoms of fatigue or distress do not subside	_____ 10
Vital signs are recorded for each participants after training has concluded	_____ 10

Total Points 100

Candidate Score _____

SKILL STATION 7

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POST- BURN BRIEFING

Candidate Name: _____

Evaluator: _____

Reference: NFPA 1041 - 2019 Edition: 8.4.1(a) (b)

Conduct a post-burn briefing session, given the learning objectives of the evolution, so that feedback on each learning objective is provided to each participant, and any needed corrective actions are identified.

The candidate will conduct a post-burn briefing.

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Learning objectives identified	_____ 15
Identifies key tasks/assignments	_____ 10
Student experiences/feedback	_____ 10
Instructor experiences/feedback	_____ 10
Identifies equipment functionality issues	_____ 10
Identifies safety concerns	_____ FAIL
Provides enough time for discussion by all participants	_____ 10
Performance discussion is balanced between strengths and opportunities	_____ 15
Adequately documents the discussion	_____ 10
Consider change in policy/procedures	_____ 10

Total Points 100

Candidate Score _____

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SKILL STATION 8

POST-BURN INSPECTION

Candidate Name _____

Evaluator: _____

Reference: NFPA 1041 - 2019 Edition: 8.4.2(a) (b)

Conduct a post-burn inspection of the structure or prop, given a structure or prop for live fire training, so that structural damage is identified, safety concerns are identified, and necessary corrective actions are taken.

The candidate will conduct a post-burn inspection of the structure or prop.

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points:</u>
Inspects structure for damage/unsafe conditions	_____ 15
Inspects surrounding areas for additional training caused concerns	_____ 15
Identifies and notifies proper authorities of unsafe conditions/concerns	_____ 20
Barricades areas of danger	_____ 10
Transfers structure or prop to AHJ/Fire Chief or designee	_____ 10
Transfers authority of property back to owner	_____ 15
Documents actions	_____ 15

Total Points 100

Candidate Score _____

SKILL STATION 9

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COMPLETES RECORDS AND REPORTS

Candidate Name: _____

Evaluator: _____

Reference: NFPA 1041 - 2019 Edition: 8.4.3(a) (b)

Complete records and reports in accordance with NFPA 1403, given a live fire evolution, so that all required reports are complete.

The candidate will complete and explain the completion of all required NFPA 1403 reports.

Did the candidate, as instructed, demonstrate competency in the following:

Completes and retains the following documents:

	<u>Deduction Points</u>
Owners Release to Damage or Burn Structure	_____ 10
Building Use Agreement & Post-Burn/Use Property Condition	_____ 10
DNR Fire Training Live Burn Application	_____ 10
MPCA Asbestos Inspection Report	_____ 10
First Report of Injury (if applicable)	_____ 10
Training Record/Attendance Sheet	_____ 10
Participant Training Verification Form	_____ 10
Summary of Activities	_____ 10
Retains Transfers of Property Agreements	_____ 10
Verbalizes need for training session documentation	_____ 10
Training Entity Liability Insurance Coverage intact/current	_____ FAIL
	Total Points 100
	Candidates Score _____