



New Hampshire Department of Safety
Division of Fire Standards and Training and Emergency Medical Services
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FIRE STANDARDS AND TRAINING COMMISSION

CURRICULUM DEVELOPMENT AND APPROVAL GUIDE

FIREFIGHTER II **NFPA 1001 2019**

Approved by the New Hampshire Fire Standards and Training Commission

Commission Approval

J. Thibault

Date: 11/5/2020

INTRODUCTION:

The New Hampshire Fire Standards and Training Commission is responsible for the approval of certification curricula for firefighters throughout the state. To accomplish this portion of their mission, the Commission establishes a Visiting Committee who is charged with recommending new curricula, or updating existing certification programs, to present to the Commission for approval and adoption.

SCOPE:

This procedure shall apply to all Visiting Committees appointed by the Fire Standards and Training Commission.

PROCEDURE:

- I. The establishment of the Visiting Committee shall follow the approved policy from the Commission.
- II. Once appointed, the Visiting Committee shall be charged with providing valuable input of the current needs facing the New Hampshire emergency services responders. They shall work closely with the Division to provide this input and feedback on the proposed curriculum.
- III. With input from the Visiting Committee, the Division shall be responsible for formulating module lesson plans, presentation outlines, and job performance requirements and be consistent with Fire Part 402.03. It is not the responsibility of the Visiting Committee to choose instructors or design quizzes and exams.
- IV. Once a curriculum package is selected and all necessary documentation is completed, the Committee shall present to the Curriculum Committee for approval. If the Curriculum Committee approved the proposal it shall then be brought forward to the full Commission for a preliminary approval. Once a preliminary approval has been granted, two public hearings (one in the day and one in the evening) shall be held in conjunction with a 60 day written comment period. All pertinent documentation shall be posted on the Division's website and notification of the comment period shall be distributed. Additionally, if ProBoard approval is required, it shall be done simultaneously with the public comment period.
- V. Upon completion of the public comment period and approval from ProBoard, if applicable, the final curriculum and public comments shall be brought forward to the full Commission for final approval.
- VI. Upon completion of two deliveries of the curriculum or after a period of one year, which ever happens first, the Division shall provide the Commission an evaluation of the curriculum and any suggested curriculum modifications needed.

MEETING GUIDELINES:

- I. All Visiting Committee meetings shall be posted in advance on the Division's website along with the other meetings of the Commission. Along with posting each meeting, notification shall be sent to any person that expressed interest in being a member of the committee who was not selected.
- II. A quorum on each Visiting Committee shall be established as a simple majority of the seated members. It is the intent to have an in-person quorum at each meeting, however in coordination with the Commission's representative the use of conferencing calling and/or video conferencing may be utilized.
- III. In the event a quorum is not possible, the Commission representative shall make the determination whether to hold the meeting or postpone it.
- IV. Upon the conclusion of each meeting, minutes shall be posted to the Division's website
- V. All final recommendations shall be voted on by a quorum of the Visiting Committee.

Curriculum Information Sheet

Name of Certification: Firefighter II
(including NFPA Standard) **NFPA Standards #:** 1001 **Edition Date:** 2019 **Next Edition:** 2023

Type of Certificate: NH Certification: _____ Pro-Board Certified X
 Certificate of Attendance: _____

Curriculum Committee Approval Curriculum Committee Approval July 8, 2020
Approval _____ **Date:** _____

ProBoard/Certification requirements: Number of exam questions: 50
 Job Sheets updated and formatted: In Process
Please attach all job sheets and NFPA matrix NFPA Matrix: In Process
 Method of Delivery: Classroom / Hybrid / Online

Reference Material for Students: Fire Engineering: Handbook for Firefighter I & II
Include edition numbers _____

Class Size: Min: 12 Max: 24 **Number of Hours:** 60 in-person
77 Total

Module Breakdown:

<u>FFI skills review</u>	Hours:	<u>Appendix A</u>
<u>Courage to Be Safe</u>	Hours:	<u>Appendix A</u>
<u>Foam & Flammable Liquids</u>	Hours:	<u>Appendix A</u>
<u>Assist Rescue Teams</u>	Hours:	<u>Appendix A</u>
<u>Communication II</u>	Hours:	<u>Appendix A</u>
<u>Preplan I inspection</u>	Hours:	<u>Appendix A</u>
<u>Public Education</u>	Hours:	<u>Appendix A</u>
<u>Fire Cause and Determination</u>	Hours:	<u>Appendix A</u>
<u>Fire Detection Suppression</u>	Hours:	<u>Appendix A</u>
<u>Auto Extrication</u>	Hours:	<u>Appendix A</u>
<u>Fire Suppression</u>	Hours:	<u>Appendix A</u>

Note: When Firefighter I and II programs are run in conjunction with each other. The FFI Skills review module is not required and the shall be a reduction of 8 hour of Fire Suppression.

Prerequisites: Firefighter I
Valid Medical Release
ICS100, ICS 200, ICS700
Professional Rescue CPR or equivalent expiring after the end of the training program

Requirements for Testing: Valid Medical Release

Successful completion of all training requirements

Valid Professional Rescue CPR Certification

ICS100, ICS 200, ICS700

What type of factor determines successful completion:

Attach sample schedule of proposed training program:

Yes

No

Attach roster appointed Visiting Committee members

Yes

No

Preliminary Commission Approval

Commission Meeting approval

9/3/2020

Date:

Public Hearing Dates

Daytime:

9/30/20 &
10/14/20

Evening:

9/30/20 &
10/14/20

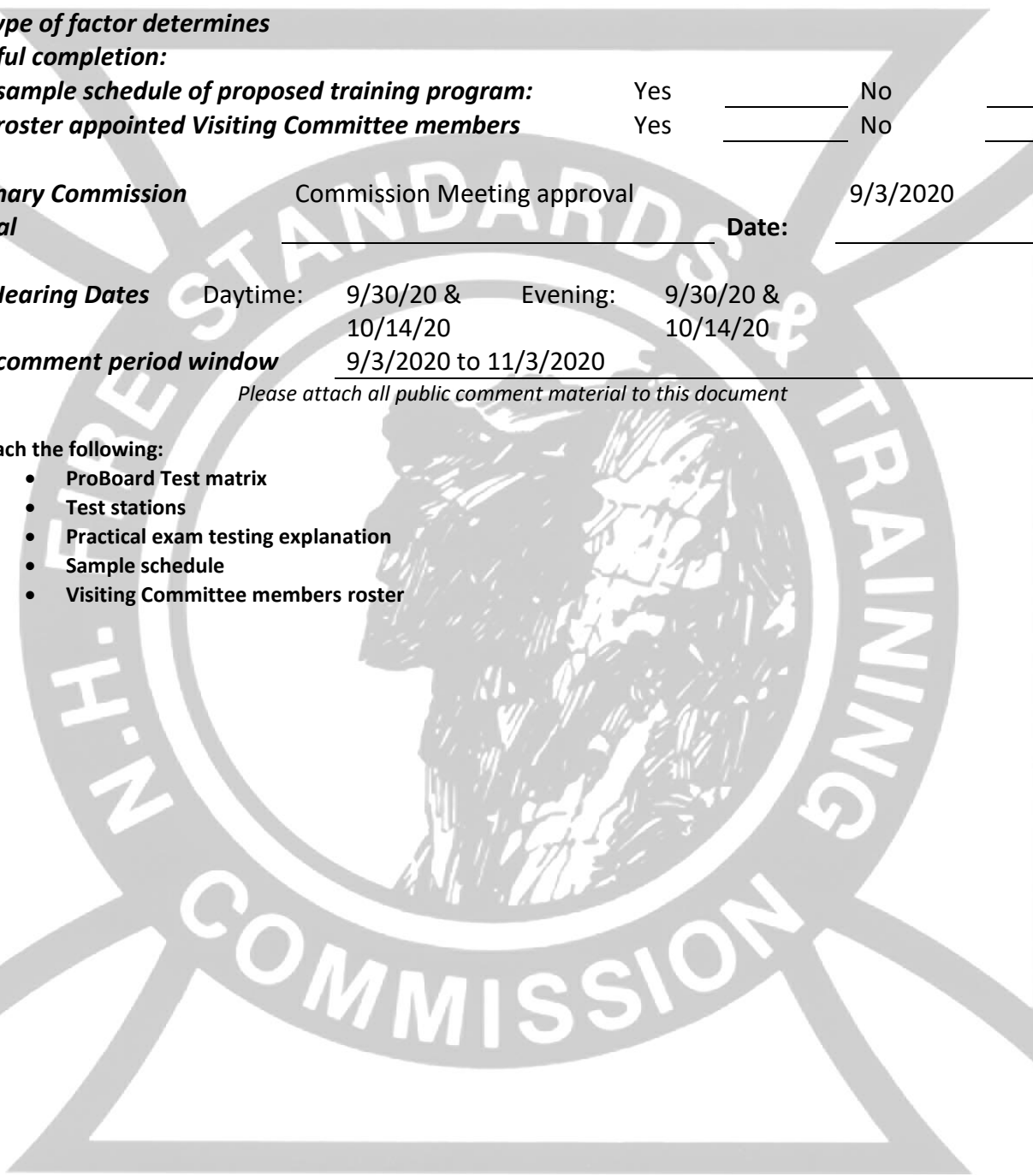
60 day comment period window

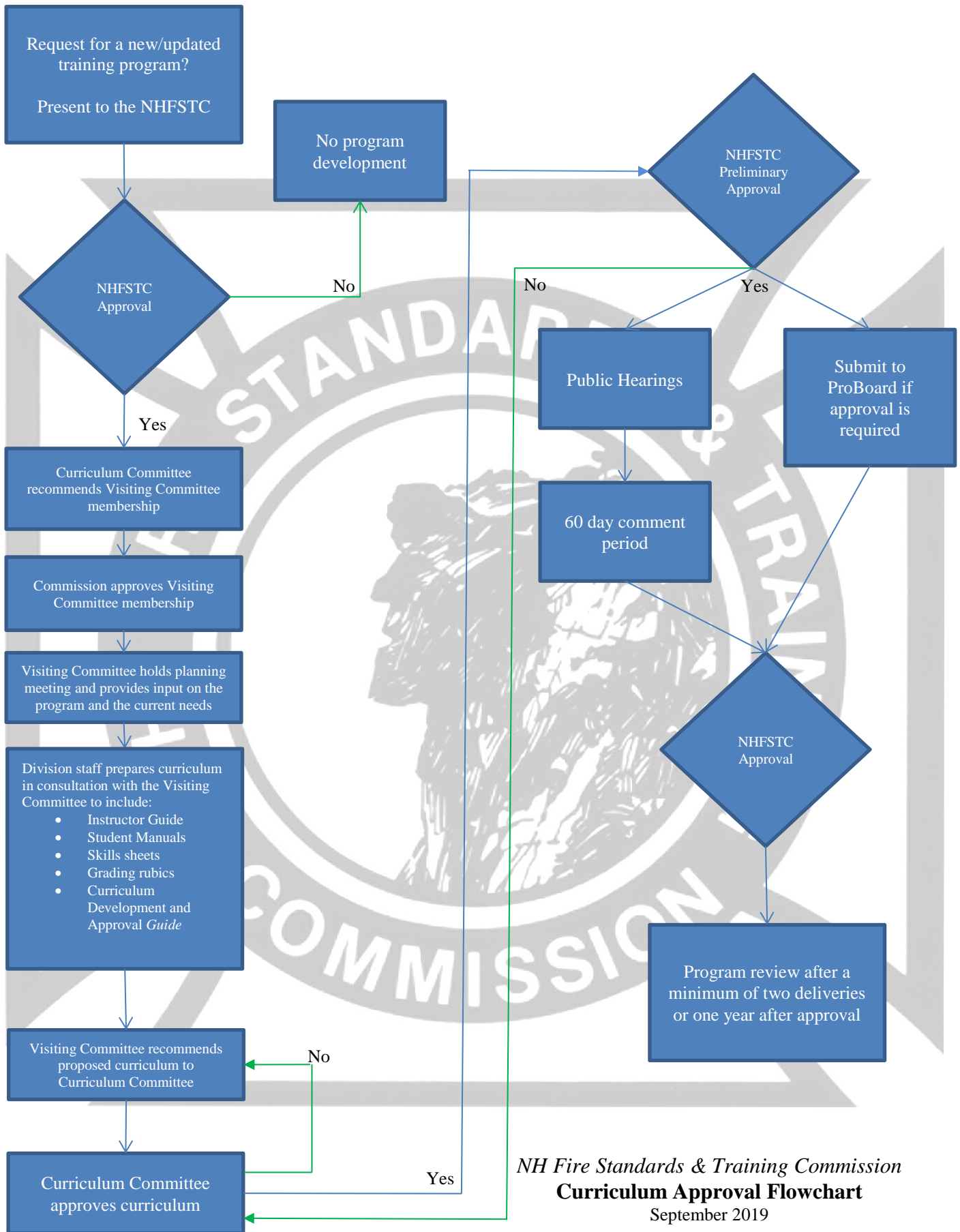
9/3/2020 to 11/3/2020

Please attach all public comment material to this document

Please attach the following:

- ProBoard Test matrix
- Test stations
- Practical exam testing explanation
- Sample schedule
- Visiting Committee members roster





NH Fire Standards & Training Commission
Curriculum Approval Flowchart
 September 2019

	Old Curriculum			New Curriculum			
	Lecture	Practical	Online	Lecture	Lab	Practical	Online
Orientation	0	0	1	0	0	0	1
History	0	0	2	0	0	0	2
Wellness	4	4	0	0	0	8	3
First Aid (CPR moved to Prerq)	0	8	2	0	0	2	1.5
Safety	2	0	1	0	0	0	1
Cancer Awareness	0	0	1	0	0	0	1
PPE / SCBA	4	8	1	0	2	6	1.5
Communications	0	4	1.5	0	0	2	2
Fire Behavior	2	8	1	0	0	4	1
Building Construction & Utilities	2	4	1	0	0	4	2.5
Portable Extinguishers	2	2	0	0	0	4	1
Tools	0	4	0	0	0	4	1
Ropes	2	8	0	0	0	8	1
Response & Size Up	2	0	0	0	0	0	0
Forcible entry	2	4	0	0	0	4	1
Ladders	4	16	0	0	0	16	2
S&R	2	8	0	0	0	8	1
Ventilation	2	4	0	0	0	4	1
Water Supply	2	4	0	0	0	4	1
Fire Attack hose	4	20	0	0	4	28	1
Survival	2	8	0	0	0	8	1
S&OH	2	4	0	0	0	4	1
Rehab	2	0	0	0	0	0	1
Suppression	2	16	0	0	0	16	1
Cause	2	0	1	0	0	0	0
HMA	0	0	1	0	0	0	1
HMO	8	8	0	8	0	8	0
WFFI / Forestry	3	8	25	0	0	9	3
T.I.M.S.	0	0	0	0	0	0	1.5
Air Mon	0	0	0	0	0	0	1
Utilities	0	1	0	0	0	0	0
Totals	57	151	38.5	8	6	151	37
Total Curriculum		208	247	Total Curriculum		165	202

	Old Curriculum			Combined Curriculum			
	Lecture	Practical	Online	Lecture	Lab	Practical	Online
CTBS	0	0		0	0	0	1
Orientation	0	0	0	0	0	0	0
Foam & Flammable Liquids	4	8	0	0	0	8	2
FFII FFI skills review	0	12	N/A	0	0	0	N/A
Assist Rescue Teams	0	0	N/A	0	4	0	1
Communication II	0	0	N/A	0	0	0	1.5
Preplan / inspection	2	0	0	0	0	0	2
Public Education	2	0	0	0	0	2	1
Fire Cause and Determination	4	0	0	0	0	2	1
Fire Detection Suppression	4	0	0	0	0	0	2
ICS	0	8	0	0	0	0	N/A
Lifting and Jacking	4	8	0	0	0	0	N/A
Air monitoring	2	2	0	0	0	0	N/A
Rope and Rigging	4	16	0	0	0	0	N/A
Auto Extrication	4	8	0	0	4	8	2
Advanced Hose	0	0	N/A	0	0	0	1
Fire Suppression	4	8	0	0	0	8	2
FFI Safety Skills	4	4	0	0	0	0	N/A
Flashover	4	8	0	0	0	0	N/A
Totals	42	82	0	0	8	28	17
Total In Person Hours		124		Total In Person Hours		36	
Total Curriculum		124		Total Curriculum		53	

	Standalone Curriculum			
	Lecture	Lab	Practical	Online
0	0	0	0	1
0	0	0	0	0
0	0	8	2	
0	0	16	N/A	
0	4	0	1	
0	0	0	1.5	
0	0	0	2	
0	0	2	1	
0	0	2	1	
0	0	0	2	
0	0	0	N/A	
0	0	0	N/A	
0	0	0	N/A	
0	0	0	N/A	
0	4	8	2	
0	0	0	1	
0	0	16	2	
0	0	0	N/A	
0	0	0	N/A	
0	8	52	17	
Total In Person Hours		60		
Total Curriculum		77		

	Old	New	% Change
Firefighter I In-person hours	208	165	-21%
Firefighter I Total Hours	247	202	-18%

Firefighter II In-person hours	124	36	-71%
Firefighter II Total Hours	124	53	-58%

Firefighter I & II In-person hours	332	201	-39%
Firefighter I & II Total Hours	371	255	-31%

Courage to be Safe Module

NFPA 1001 Ref: 5.1

Current Overview: Classroom: Online

Practical: None

<https://www.fireherolearningnetwork.com/>

Recommendation: Classroom: Online

Practical: None

We are not recommending any changes to this program

Rationale for recommendation:

Foam and Flammable Liquids Module

NFPA 1001 Ref: 5.3.1; 5.3.3

Current Overview: Classroom: 4 hours

Practical: 8 hours

Flammable gas cylinder fire:

Group 1 of 6 will be divided into two equal groups. Each group will advance a 1 ¾" hand-line simultaneously under direct supervision of an instructor. Together they will cool the tank apply various techniques for water application and suppress the fire and operate the control valve.

Foam:

Group 2 of 6 will prepare a foam concentrate supply for use, assemble foam stream components, master various foam application techniques, and approach and retreat from spills as part of a coordinated team.

Group 3 of 6 will set up a master stream to disperse vapor cloud for a ruptured liquid propane line.

Recommendation: Classroom: Online (PFAS) to be included

Practical: 8 hours

Students will be divided into 4 groups of 6.

Flammable gas cylinder fire:

Group 1 of 6 will be divided into two equal groups. Each group will advance a 1 ¾" hand-line simultaneously under direct supervision of an instructor. Together they will cool the tank apply various techniques for water application, suppress the fire and operate the control valve.

Foam:

Group 2 of 6 will prepare a foam concentrate supply for use, assemble foam stream components, master various foam application techniques, and approach and retreat from spills as part of a coordinated team.

Group 3 of 6 will set up a master stream to disperse vapor cloud for a liquid propane leak.

Rationale for recommendation:

We are recommending moving the classroom to online and we are not recommending any changes to the current practical.

Assist Rescue Teams Module

NFPA 1001 Ref: 5.4.2

Current Overview: 32 hours of classroom and practical

We have been meeting the current standard with FFII rescue skills (ITRS) which is much higher than the current standard.

Recommendation: Classroom: online

Practical: 8 hour practical

Lab:

Students will be divided into groups. Instructors will layout tarps for each type of rescue team; Ice rescue, water, high angle, confined space, and trench. Each tarp will have equipment related to the topic. Instructors will provide a brief overview on the different equipment. Students will rotate to each section.

practical:

The day would start by reviewing knots and discussing anchor points. Then working with the students building a lowering and hauling system for non-technical rescues.

The second half of the day would be dividing the class in half and putting all of the pieces together in a few basic scenarios.

Rationale for recommendation:

By having an overview of the equipment students can identify and retrieve various types of rescue tools, help establish public barriers, and assist rescue teams as a member of the team when assigned.

While the 8 hours exceed the standard, we feel we have many fire departments asking for the Z system and hauling systems.

Fire Department Communication II Module

NFPA 1001 Ref: 5.2.1

Current Overview: Classroom: Online

Practical: None

Currently we do not have a practical for communication II

Recommendation: Classroom: Online

Practical: none

An incident report fillable form will be online for students to write an incident report and submit. The students will be provided a given scenario.

Rationale for recommendation:

The communication classroom is currently online which we recommend keeping communications online way and added an incident report for students to proof and added amendments as necessary.

Pre-Incident Planning and Fire Detection & Suppression Systems Module

NFPA 1001 Ref: 5.5.3

Current Overview: Classroom: 8 hour Lecture between two topic

Practical: None

Currently we do not have a practical for this skill

Recommendation: Classroom: Online

Practical: will be a project to be completed by end of course

Students will be assigned a project of a given occupancy. The occupancy we will standardize, provide written description, and photograph 3D. Students will need to develop a pre-incident plan of a given occupancy using prepared online forms. Students will need to include photos, sketch a site plan, document hazards, identify water sources, identify suppression & detection systems, and provide building dimensions.

Rationale for recommendation

Fire Prevention and Public Education Module

NFPA 1001 Ref: 5.5.1, 5.5.2

Current Overview: Classroom: 4 hour Lecture

Practical: None

Currently we do not have a practical.

Recommendation: Classroom: Online

Practical: 2 hour (will be a project)

Students will be divided into 6 groups of 4 to complete a project and present to their peers. Students will be given 10 minutes to present on one of the following assigned topics: EDITH, Stop, drop, and roll, Smoke Alarms, Kitchen fires, station tours, or knowing your firefighter. Each group will need to work together to prepare and document their presentation prior to presenting.

The second half of fire prevention each student will conduct a fire safety survey of their home or apartment. Students will need to complete prepared forms online and will communicate in writing their recommendation.

<http://www.usfa.fema.gov/prevention/outreach/fief/>

Rationale for recommendation:

A big part of fire prevention is presenting to the public. Having the students present to their peers in a professional manner will give them a better understanding of how to present without being an instructor.

Fire Cause and Determination II Module

NFPA 1001 Ref: 5.3.4

Current Overview: Classroom: 4 hours

Practical: None

Currently do not have a practical for this skill

Recommendation: Classroom: Online

Practical: 2 hour

Students will be divided in to groups to observe different possible causes of fire and will be given a few ways to preserve/protect the evidence.

A few different props will be built to show electrical fires, candle fires, etc..... the props will have burn patterns for students to observe.

Rationale for recommendation:

Vehicle Rescue Module

NFPA 1001 Ref: 5.4.1

Current Overview: Classroom: 4 hour classroom

Practical: 12 hours

4 hour lab

Students will be divided in to groups and rotate through the different stations. The lab stations are: review of hydraulic tools, and hand tool; review of anatomy of vehicles; review of how to use and assemble lifting air bags, and an air bag demo.

8 hour practical

Students are divided into 6 groups of 4 and assigned a vehicle for each. Each group will: stabilize the vehicle, force entry into a vehicle, remove doors, windshield and windows, remove steering wheel/column and roll a dash board

Recommendation: Classroom: Online (electric vehicles) included

Practical: 12 hours (4 hour lab and 8 hour practical)

4 hour lab

Students will be divided in to groups and rotate through the different stations. The lab stations are: review of hydraulic tools, and hand tool; review of anatomy of vehicles; review of how to use and assemble lifting air bags, and an air bag demo.

8 hour practical

Students are divided into 6 groups of 4 and assigned a vehicle for each. Each group will: stabilize the vehicle, force entry into a vehicle, remove doors, windshield and windows, remove steering wheel/column and roll a dash board.

Rationale for recommendation:

We are recommending moving the classroom to online and we are not recommending any changes to the current practical.

Advance Hose Module

NFPA 1001 Ref: From FFI Hose Module 5.5.5

Current Overview: Classroom: None

Practical: None

Currently these skills are in FFI

Recommendation: Classroom: Online

Practical: 8 hours

We have added the other hose loads from FFI. For fire suppression students need to choose the attack technique for the various levels of fire. With additional hose-loads the students will have several different choices.

- Review of FFI hose-load
- Pack Flat Hose Load
- Advance Flat Hose Load
- Pack Triple Layer hose Load
- Advance Triple Layer Hose Load
- Connecting to standpipes
- PM and testing hose

During afternoon students will put together the FFI hose skills and the additional skills they have learned with lots of repetitions.

Rationale for recommendation:

We are recommending moving the classroom to online and we have added the hours due to adding additional practical skills from FFI. Students also need more repetitions to become competent with the skills they are acquiring.

Fire Suppression II Module

(Combined Operations)

NFPA 1001 Ref: 5.1.1, 5.1.2, 5.2.2, 5.3.2

Current Overview: Classroom: 4 hour

Practical: 8 hour

Students will be divided into groups of 3. Students are assigned a task, two different groups will need to determine the hose-load and attack technique for various levels of fire, which will be given to the incident commander, for an attic, ground level, upper level or basement fire. One group will be assigned the task to extinguish a ground level or a basement fire and the second group will be assigned an attic or upper level fire.

Another group will need to select the type of tools for forcible entry. Group 3 will be assigned search and rescue task, which they need to determine the appropriate technique and if they need additional assistance. Group 4 will be assigned horizontal ventilation and the students will need to determine the correct equipment need to accomplish the task.

Recommendation: Classroom: Online

Practical: 16 hour

The Firefighter II student will need to make decisions on equipment used, type of attack, and hazards associated to the type of building fire.

Students will be divided into groups of 3. One student will be temporarily incident commander, the student will assign groups to tasks, assess building hazards, determine developing fire conditions and then transfer command to the lead instructor. Task assignments, fire development, and building hazards are based on the type of scenario given to that students.

Two different groups will need to determine the hose-load and attack technique for various levels of fire, which will be given to the incident commander, for an attic, ground level, upper level or basement fire. One group will be assigned the task to extinguish a ground level or a basement fire and the second group will be assigned an attic or upper level fire.

Group 3 will need to select the type of tools for forcible entry. Group 4 will be assigned search and rescue task, which they need to determine the appropriate technique and if they need additional assistance. Group 5 will be assigned horizontal ventilation and the students will need to determine the correct equipment need to accomplish the task.

Rationale for recommendation: