Firefighter Certification VII (FIRS 1433)

Credit: 4 semester credit hours (3 hours lecture, 2 hours lab)

Co-requisite: FIRS 1319, FIRS 1103, FIRS 1407, FIRS 1329, and FIRS

1301.



One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, III, IV, V, and VI to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS CERTIFIED AS A TRAINING FACILITY BY THE TEXAS COMMISSION ON FIRE PROTECTION***

Required Textbook and Materials

- 1. Fundamentals of Fire Fighting Skill, 4th Edition
 - a. 9781284144017
- 2. *Hazardous Materials for First Responders* 5th Edition. Published by: Fire Protection Publications, Oklahoma State University. Validated by IFSTA
 - a. ISBN: 978-0-8793939-613-8

Course Objectives

Upon completion of this course, the student will be able to:

Demonstrate competencies, for subjects taught, set forth in the TCFP curriculum for Basic Fire Suppression

101-1.00 The firefighter trainee shall identify state laws and rules related to health and safety.

101-2.00 The firefighter trainee shall describe the responsibilities of a firefighter relating to compliance with the provisions of occupational safety and health programs.

101-3.00 The firefighter trainee shall identify the correct laws and rules applicable to Basic Firefighter certification by the Texas Commission on Fire Protection.

101-4.00 The firefighter trainee shall identify the various levels of instructor certification by the Texas Commission on Fire Protection.

102-1.00 The firefighter trainee shall identify, safely carry, and describe how to use forcible entry tools safely.

103-1.00 The firefighter trainee shall be able to describe the purpose of the NFPA standard applicable to portable fire extinguishers.

104-1.00 The firefighter trainee shall be able to describe the purpose of the NFPA standard applicable to ropes.

105-1.00 The firefighter trainee shall be able to describe the purpose of the NFPA standards applicable to fire service ladders.

106-1.00 The firefighter trainee shall be able to describe the purpose of the NFPA standards applicable to fire service hose.

107-1.00 The firefighter trainee shall identify and describe the purpose of salvage and its value to the fire department and in public relations.

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- 108-1.00 The firefighter trainee shall identify and describe the safety precautions necessary during overhaul.
- 109-1.00 The firefighter trainee shall identify, define, and demonstrate characteristics of fire streams.
- 110-1.00 The firefighter trainee shall identify and describe the principles, advantages, and effects of proper ventilation.
- 111-1.00 The firefighter trainee shall describe and demonstrate the proper techniques of searching for victims.
- 112-1.00 The firefighter trainee shall be able to describe the purpose of the NFPA standard applicable to fire prevention inspections.
- 113-1.00 The firefighter trainee shall describe the operation of fire hydrants, fully open and close fire hydrants, and identify the NFPA hydrant color code.
- 114-1.00 The firefighter trainee shall be able to describe the purpose of the NFPA standards applicable to fire protection systems.
- 115-1.00 The firefighter trainee shall identify and describe the process of combustion and define key terms associated with fire science.
- 116-1.00 The Firefighter trainee shall identify and be able to describe the purpose, goals, and definitions of the NFPA standards applicable to Hazardous Materials.
- 117-1.00 The firefighter trainee shall explain, identify, or demonstrate emergency service communication procedures.
- 118-1.00 The firefighter trainee shall describe the importance and purpose of communications between the fire department and the community.
- 119-1.00 The firefighter trainee shall define the following terms related to wildland fire suppression.
- 120-1.00 The firefighter trainee shall describe the purpose of the following NFPA standards applicable to SCBAs.
- 121-1.00 The firefighter trainee shall be able to describe the purpose of the following NFPA standards applicable to personal protective equipment.
- 122-1.00 The firefighter trainee shall be able to describe the purpose of the NFPA standard applicable to professional firefighters.
- 123-1.00 The firefighter trainee shall identify and describe the basic types of building construction and the general fire behavior expected with each type of construction.
- 124-1.00 The firefighter trainee shall identify and describe the general requirements, purpose, and definitions of the NFPA standard(s) applicable to Live Fire Training evolutions.
- 125-1.00 The firefighter trainee shall identify the responsibilities of the firefighter which could assist in the subsequent investigation of a fire.
- 156-1.00 The firefighter trainee shall demonstrate procedures for testing fire hose.
- 158-1.00 The firefighter trainee shall list and describe dangerous building conditions.
- 159-1.00 The firefighter trainee shall identify and define foam making appliances, and shall demonstrate a foam stream from each.
- 160-1.00 The firefighter trainee shall recognize the characteristics of ventilating a basement.
- 161-1.00 The firefighter trainee, operating as a member of a team, shall demonstrate the extrication of a victim from a vehicle.
- 162-1.00 The firefighter trainee shall identify the types of fire extinguishers in an occupancy and ensure that they conform to the fire prevention requirements for that occupancy.

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163-1.00 The firefighter trainee shall identify and describe water systems and their fundamental components.

164-1.00 The firefighter trainee shall identify the features and characteristics of automatic sprinkler systems.

166-1.00 The firefighter trainee shall identify and be able to describe the purpose, goals, and definitions of the NFPA standards applicable to Hazardous Materials.

173-1.00 The firefighter trainee shall identify and describe the basic types of building construction and the general fire behavior expected with each type of construction.

174-1.00 The firefighter trainee shall extinguish or control live fires.

175-1.00 The firefighter trainee shall identify the methods for protecting evidence for fire cause determination.

176-1.00 The firefighter trainee shall identify and describe the purpose of an incident management system.

177-1.00 The firefighter trainee shall identify fire incident reporting systems.

178-1.00 The firefighter trainee shall identify and describe the benefits and components of preincident planning.

179-1.00 The firefighter trainee shall be able to describe various types of automotive fire apparatus, their functions, and their features.

180-1.00 The firefighter trainee shall identify various types of fire apparatus pumps and pump components, and shall identify their function(s), theory(s), and principle(s) of operation.

Course Outline

The Texas Commission on Fire Protection determines the minimum course content.

Class Day	Start Time	End Time	Hrs Trng	Subject/ Curriculum Number	Subject
1	7:30	16:30	8	101	Admin/TCFP & LIT R&R/CPAT Orientation/Research Paper Assgmnts
2	7:30	16:30	8	115	Fire Science/Behavior
2	16:30	17:30	1	PFT	Physical Fitness Evaluation
3	7:30	16:30	8	115	Fire Science/Behavior
4	7:30	16:30	8	176	NIMS & ICS
4	16:30	17:30	1	PFT	Physical Fitness Training
5	7:30	16:30	8	176	NIMS & ICS
5	16:30	17:30	1	PFT	Physical Fitness Training
6	7:30	16:30	8	121	Personal Protective Equipment (PPE)
6	16:30	17:30	1	PFT	Physical Fitness Training
7	7:30	16:30	8	120	SCBA
7	16:30	17:30	1	PFT	Physical Fitness Training
8	7:30	16:30	8	120	SCBA
9	7:30	16:30	8	104	SCBA (Skills Testing)
9	16:30	17:30	1	PFT	Physical Fitness Training
10	7:30	16:30	8	122	Firefighter Safety & Orientation
11	7:30	16:30	8	122	Firefighter Safety & Orientation

Class	Start	End	Hrs	Subject/ Curriculum		
Day	Time	Time	Trng	Number	Subject	
11	16:30	17:30	1	PFT	Physical Fitness Training	
12	7:30	16:30	8	122	Firefighter Safety & Orientation	
13	7:30	16:30	8	122	Firefighter Safety & Orientation (Skills Testing)	
14	7:30	16:30	8	123	Building Construction	
14	16:30	17:30	1	PFT	Physical Fitness Training	
15	7:30	16:30	8	113	Water Supply	
15	16:30	17:30	1	PFT	Physical Fitness Training	
16	7:30	16:30	8	111	Search & Rescue	
16	16:30	17:30	1	PFT	Physical Fitness Training	
17	7:30	16:30	8	120/111	SCBA's (Smoke House)	
18	7:30	16:30	8	PFT/121/120	CPAT 2nd Orientation/Skills Practice - PPE & SCBA	
19	7:30	16:30	8	111	Search & Rescue	
19	16:30	17:30	1	PFT	Physical Fitness Training	
20	7:30	16:30	8	106	Fire Service Hose	
20	16:30	17:30	1	PFT	Physical Fitness Training	
21	7:30	16:30	8	106	Fire Service Hose	
21	16:30	17:30	1	PFT	Physical Fitness Training	
22	7:30	16:30	8	156	Fire Service Hose (Skills Testing)	
23	7:30	16:30	8	109	Fire Streams	
23	16:30	17:30	1	PFT	Physical Fitness Training	
24	7:30	16:30	8	117	Emergency Services Communications	
24	16:30	17:30	1	PFT	Physical Fitness Training	
25	7:30	16:30	8	105	Fire Service Ground Ladders	
25	16:30	17:30	1	PFT	Physical Fitness Training	
26	7:30	16:30	8	105	Fire Service Ground Ladders	
26	16:30	17:30	1	PFT	Physical Fitness Training	
27	7:30	16:30	8	105	Fire Service Ground Ladders & Aerial Climb	
28	7:30	16:30	8	107	Fire Service Salvage	
28	16:30	17:30	1	PFT	Physical Fitness Training	
29	7:30	16:30	8	108/158	Fire Service Overhaul	
29	16:30	17:30	1	PFT	Physical Fitness Training	
30	7:30	16:30	8	102	Firefighter Tools & Equipment	
30	16:30	17:30	1	PFT	Physical Fitness Training	
31	7:30	16:30	8	102	Forcible Entry	
31	16:30	17:30	1	PFT	Physical Fitness Training	
32	7:30	16:30	8	110	Ventilation	
33	7:30	16:30	8	110	Ventilation	

Class Day	Start Time	End Time	Hrs Trng	Subject/ Curriculum Number	Subject	
33	16:30	17:30	1111 <u>9</u> 1	PFT	Physical Fitness Training	
34	7:30	16:30	8	160	Ventilation (Skills Testing)	
34	16:30	17:30	1	PFT	Physical Fitness Training	
35	7:30	16:30	8	111	CPAT 3rd Orientation & Practice & Skills Practice	
36	7:30	16:30	8	124/174	Fire Control: Response & Scene Size Up	
36	16:30	17:30	1	PFT	Physical Fitness Training	
37	7:30	16:30	8	124/174	Fire Control: Response & Scene Size Up	
38	7:30	16:30	8	124/174	Fire Control: Fire Suppression	
38	16:30	17:30	1	PFT	Physical Fitness Training	
39	7:30	16:30	8	110/160	Ventilation/Forcible Entry Houses	
40	7:30	16:30	8	103	Portable Fire Extinguishers (Skills Testing)	
40	16:30	17:30	1	PFT	Physical Fitness Training	
41	7:30	16:30	8	104	Ropes, Knots & Hitches	
41	16:30	17:30	1	PFT	Physical Fitness Training	
42	7:30	16:30	8	161	Rescue	
43	7:30	17:30	8	161	Rescue	
43	16:30	17:30	1	PFT	Physical Fitness Training	
44	7:30	16:30	8	161	Rescue (Skills Testing)	
44	16:30	17:30	1	PFT	Physical Fitness Training	
45	7:30	16:30	8	161	Rescue (Skills Testing)	
45	16:30	17:30	1	PFT	Physical Fitness Training	
46	7:30	16:30	8	161	Vehicle Extrication	
47	7:30	16:30	8	107/106	Skills Practice & Testing - S & O and Hose	
48	7:30	16:30	8	FIRS	Driving Practices	
48	16:30	17:30	1	PFT	Physical Fitness Training	
49	7:30	16:30	8	FIRS	Pump Operations	
49	16:30	17:30	1	PFT	Physical Fitness Training	
50	7:30	16:30	8	119	Wildland Fire Suppression	
50	16:30	17:30	1	PFT	Physical Fitness Training	
51	7:30	16:30	8	119	Wildland Fire Suppression Skills	
52	7:30	16:30	8	161	Transportation Emergencies	
53	7:30	16:30	8	PFT/FIRS	CPAT 4th Practice & Skills Practice	
54	7:30	16:30	8	124	Live Fire Training (Flashover)	
55	7:30	16:30	8	125/175	Fire Cause	
55	16:30	17:30	1	PFT	Physical Fitness Training	
56	7:30	16:30	8	112	Inspections/Fire Prevention Education	
56	16:30	17:30	1	PFT	Physical Fitness Training	
57	7:30	16:30	8	124	Live Fire Training	

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Class Day	Start Time	End Time	Hrs Trng	Subject/ Curriculum Number	Subject	
58	7:30	16:30	8	124	Live Fire Training	
59	7:30	16:30	8	118/177	Public Relations, Reports & Records	
60	7:30	16:30	8	112	Inspections/Fire Prevention Education	
60	16:30	17:30	1	PFT	Physical Fitness Training	
61	7:30	16:30	8	124	Live Fire Training (Skills Testing)	
61	16:30	17:30	1	PFT	Physical Fitness Training	
62	7:30	16:30	8	124	Live Fire Training (Skills Testing)	
63	7:30	16:30	8	159	Foam Fire Streams (Skills Testing)	
64	7:30	16:30	8	174	Night Live Fire Training	
65	7:30	17:30	8	178	Pre-incident Planning/Research Projects Due	
66	7:30	13:30	5	PFT	CPAT Test	
67	7:30	16:30	8	116	HazMat Awareness	
68	7:30	16:30	8	116	HazMat Awareness	
69	7:30	16:30	8	166	HazMat Operations	
70	7:30	16:30	8	166	HazMat Operations	
71	7:30	16:30	8	166	Response to Terrorism & Operations Skills	
72	7:30	16:30	8	114	Fire Protection Systems	
73	7:30	16:30	8	164	Fire Protection Systems (Skills Testing)	
74	7:30	16:30	8	FIRS	Final Exam/Skills Practice	
75	7:30	16:30	8	TCFP	TCFP State Certification Testing	
			634	(Total Hours may vary)		

Grade Scale

90 - 100	A
80 - 89	В
70 - 79	C
60 - 69	D
0 - 59	F

Course Evaluation

Completion of the Basic Firefighting Certification Academy leads to the issuance of a Certificate of Completion. The full-time BFFC consists of six separate course designations which are conducted concurrently – FIRS 1301, FIRS 1319, FIRS 1329, FIRS 1407, FIRS 1433 and FIRS 1103. The second digit from the left denotes the number of semester hour credits per course.

Cadets receive one academic grade which is identical for each of the five core academy courses (FIRS 1301, FIRS 1319, FIRS 1329, FIRS 1407, and FIRS 1433). FIRS 1103 Firefighter Agility

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and Fitness Preparation, is the physical fitness component of the academy and the cadet will receive a separate grade for that course. Successful completion of the BFFC results in the graduate receiving 18 college credit hours. These courses are used in computing the cadet's Grade Point Average.

EXAMS

Exams will be announced in advance.

- Pop quizzes may be given at any time; you should be prepared at all times.
- ◆ Student Workbooks are expected to be completed by all Cadets (these will be picked up periodically to see if you are working on them and assigned a grade at the end of the academy)
- Each student will be assigned a topic for writing a research paper.
- ♦ A comprehensive final examination will be given at the end of the academy. Passing of the final is **MANDATORY.** In order to be eligible to sit for the Final Exam, all absences are to be completed and all LIT financial obligations must be met prior to the date of the exam.

ASSIGNMENTS

Each Cadet will be expected to satisfactorily participate in and complete all assignments and examinations given in the course attended.

♦ Homework and/or remedial work will be assigned and must be satisfactorily completed by the assigned date and time. Failure to complete work assignments will be considered insubordination and will be referred for disciplinary action.

GRADING

- The minimum passing grade on written exams shall be a grade of 75.
- ♦ Cadets failing to achieve an average of 75 upon completion of the first three exams are subject to dismissal from the academy.
- ◆ Cadets failing to maintain a 75 average at any time during the academy will be placed on Academic Probation and afforded the next two tests to demonstrate academic competence. A Cadet failing to successfully pass those two tests may be dismissed from the academy.
- ♦ Course Grade:

a.	Live Fire Evaluations	05%
b.	Exams	60%
c.	Research Paper	10%
d.	Physical Training	05%
e.	Final Exam	<u>20%</u>
f.	Final Course Grade	100%

• All examinations and research papers become the property of the academy.

Late Penalties (5 points per day) will be assessed on all work turned in late.

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Course Policies

Course policies are included in the comprehensive LIT Regional Fire Academy Handbook. Each student will receive either a printed or digital copy of the handbook.

Technical Requirements

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at:

https://help.blackboard.com/Learn/Student/Getting Started/Browser Support/Browser Checker A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

Disabilities Statement

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building. You may also visit the online resource at https://www.lit.edu/student-success/special-populations

Student Code of Conduct Statement

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu or obtained in print upon request at the Student Services Office. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document

Starfish

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

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