



# **State Firemen's and Fire Marshals' Association of Texas**

Texas Volunteer Firefighters' and Fire Marshals' Certification Board

PO Box 1409 ♦ Manchaca, Texas 78652-1409 ♦ 512.453.1876 (fax)

www.sffma.org ♦ 512.454.3473 (phone)

## **INSTRUCTIONAL SKILLS**

### **FIRE STREAMS #1**

Setting up and Operating a Foam Fire Stream

**Subject: Fireground Operations**

**NFPA 1001 6.3.1**

**Firefighter II**

#### **OBJECTIVE**

The firefighter trainee, given the necessary equipment, shall demonstrate the proper procedure for setting up and operating a foam fire stream.

#### **INSTRUCTIONS - procedures for achieving the objective**

You shall demonstrate the proper procedure for setting up a foam fire stream with the appropriate equipment. You will demonstrate the operation of the foam stream. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

#### **EXAMINERS NOTE**

The firefighter trainee will not be allowed to review the performance steps at the time of testing.

#### **PREPARATION & EQUIPMENT**

Foam concentrate  
Foam eductor  
Attack hose line  
Nozzle  
Pumper apparatus

The firefighter trainee shall accomplish the steps wearing "**FULL PROTECTIVE CLOTHING FOR STRUCTURAL FIREFIGHTERS**" to include helmet, gloves, coat, trousers, boots and SCBA.



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## INSTRUCTIONAL SKILLS

### FIREFIGHTER II: FIRE STREAMS #1

Setting up and Operating a Foam Fire Stream

Candidate: \_\_\_\_\_

Notes: \_\_\_\_\_

Examiner: \_\_\_\_\_

\_\_\_\_\_

School: \_\_\_\_\_

\_\_\_\_\_

Test Site: \_\_\_\_\_

\_\_\_\_\_

The firefighter trainee, given the necessary equipment, shall demonstrate the proper procedure for setting up and operating a foam fire stream.

The Candidate:	POSSIBLE POINTS	TEST	RETEST
a. Selects proper foam to be used	1		
b. Checks the eductor and nozzle to make sure they are compatible	1		
c. Ensures the foam concentration matches the eductor percentage rating	1		
d. Adjusts eductor if applicable	1		
e. Attaches eductor to hose of proper size	1		
f. Avoids kinks in the hose	1		
g. Ensures valves on outlets are fully open	1		
h. Attaches attack hose line and nozzle to the discharge end of eductor	1		
i. Opens the foam bucket	1		
j. Places the eductor suction hose into the foam	1		
k. Increases water supply pressure as required by the eductor	1		
<b>TOTAL POINTS:</b>	<b>11</b>		

**Points needed to pass: 8**

**Evaluator/Candidate Comments:**

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\_\_\_\_\_  
Certifying Examiner

\_\_\_\_\_  
Date

\_\_\_\_\_  
Re-Test Certifying Examiner

\_\_\_\_\_  
Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>



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## **INSTRUCTIONAL SKILLS**

### **FIRE STREAMS #2**

Applying Foam

**Subject: Fireground Operations**

**NFPA 1001 6.3.1**

**Firefighter II**

#### **OBJECTIVE**

Given an ignitable liquid fire scenario, the firefighter trainee will select the appropriate foam concentrate for the fuel involved. The trainee shall demonstrate the proper application of a foam stream on the simulated fire for extinguishment.

#### **INSTRUCTIONS - procedures for achieving the objective**

Given an ignitable liquid fire scenario, you will select the appropriate foam concentrate for the fuel involved. You shall demonstrate the proper application of a foam stream on the **simulated** fire for extinguishment. The skill will commence on my instruction to start. The skill will end when all of the identified steps have been accomplished and you state to me that you have completed the skill. Do you understand these instructions?

#### **EXAMINERS NOTE**

The firefighter trainee will not be allowed to review the performance steps at the time of testing.

#### **PREPARATION & EQUIPMENT**

Foam concentrate (assorted concentrations) Foam eductor

Attack hose line

Nozzle

Pumper apparatus

Simulated burning fuel area in or around walls or other obstructions

The firefighter trainee shall accomplish the skill wearing "**FULL PROTECTIVE CLOTHING FOR STRUCTURAL FIREFIGHTERS**" to include helmet, gloves, coat, trousers, boots, and SCBA.



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## INSTRUCTIONAL SKILLS

### FIREFIGHTER II: FIRE STREAMS #2

Applying Foam

Candidate: \_\_\_\_\_

Notes: \_\_\_\_\_

Examiner: \_\_\_\_\_

\_\_\_\_\_

School: \_\_\_\_\_

\_\_\_\_\_

Test Site: \_\_\_\_\_

\_\_\_\_\_

Given an ignitable liquid fire scenario, the firefighter trainee will select the appropriate foam concentrate for the fuel involved. The trainee shall demonstrate the proper application of a foam stream on the simulated fire for extinguishment.

The Candidate:	POSSIBLE POINTS	TEST	RETEST
a. Ensures that the foam is compatible with the fuel burning	1		
b. Opens nozzle to ensure generation of foam	1		
c. Advances to a safe distance from the fire	1		
d. Applies agent on the fuel in an indirect method: <ol style="list-style-type: none"> <li>1. Bounces agent off walls or other obstructions</li> <li>2. Applies the agent in front of the burning fuel and "rolls" the agent onto the fuel</li> <li>3. In the absence of a wall or obstruction, gently lobs the agent onto the burning liquid</li> </ol>	1		
e. Applies the agent in a sufficient rate and amount to extinguish the fuel	1		
f. Takes care not to approach too close to the burning fuel	1		
g. Takes care not to disturb the foam blanket or splash fuel with direct application of the foam stream	1		
<b>TOTAL POINTS:</b>	<b>7</b>		

**Points needed to pass: 5**

**Evaluator/Candidate Comments:**

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Certifying Examiner

\_\_\_\_\_  
Date

\_\_\_\_\_  
Re-Test Certifying Examiner

\_\_\_\_\_  
Date

Overall Skill Sheet Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score	
Pass <input type="checkbox"/>	Fail <input type="checkbox"/>