



State Firefighters' and Fire Marshals' Association of Texas

Texas Volunteer Firefighters' and Fire Marshals' Certification Board

PO Box 1409 ♦ Manchaca, Texas 78652-1409

www.sffma.org ♦ 512.454.3473 (phone)

INSTRUCTIONAL SKILLS

FIRE STREAMS FF II - 1

Setting up and Operating a Foam Fire Stream

PERFORMANCE STANDARD

Subject: Fireground Operations

NFPA 1001 5.3.1

REFERENCE

Extinguish an ignitable liquid fire, operating as a member of a team, given an assignment, an attack line, personal protective equipment, a foam proportioning device, a nozzle, foam concentrates, and a water supply, so that the correct type of foam concentrate is selected for the given fuel and conditions, a properly proportioned foam stream is applied to the surface of the fuel to create and maintain a foam blanket, fire is extinguished, reignition is prevented, team protection is maintained with a foam stream, and the hazard is faced until retreat to safe haven is reached. (5.3.1)

OBJECTIVE

Trainee shall demonstrate 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 the identified steps. Do you understand these instructions?

PREPARATION & EQUIPMENT

Foam concentrate

Foam eductor

Attack hose line

Nozzle

Pumper apparatus

PPE appropriate for the skill



State Firefighters' and Fire Marshals' Association of Texas

Texas Volunteer Firefighters' and Fire Marshals' Certification Board

PO Box 1409 ♦ Manchaca, Texas 78652-1409

www.sffma.org ♦ 512.454.3473 (phone)

INSTRUCTIONAL SKILLS

FIRE STREAMS FF II - 1

Setting up and Operating a Foam Fire Stream

Trainee: _____

Department: _____

Trainee shall demonstrate setting up and operating a foam fire stream. (5.3.1)			
	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		
TOTAL POINTS:	11		

Points needed to pass: 8

Evaluator/Candidate Comments:

Instructor's Signature

Date



State Firefighters' and Fire Marshals' Association of Texas

Texas Volunteer Firefighters' and Fire Marshals' Certification Board

PO Box 1409 ♦ Manchaca, Texas 78652-1409

www.sffma.org ♦ 512.454.3473 (phone)

INSTRUCTIONAL SKILLS

FIRE STREAMS FF II - 2

Applying Foam

PERFORMANCE STANDARD

Subject: Fireground Operations

NFPA 1001 5.3.1

REFERENCE

Extinguish an ignitable liquid fire, operating as a member of a team, given an assignment, an attack line, personal protective equipment, a foam proportioning device, a nozzle, foam concentrates, and a water supply, so that the correct type of foam concentrate is selected for the given fuel and conditions, a properly proportioned foam stream is applied to the surface of the fuel to create and maintain a foam blanket, fire is extinguished, reignition is prevented, team protection is maintained with a foam stream, and the hazard is faced until retreat to safe haven is reached. (5.3.1)

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 the identified steps have been accomplished and you state to me that you have completed the skill. Do you understand these instructions?

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

PPE appropriate for the skill



State Firefighters' and Fire Marshals' Association of Texas

Texas Volunteer Firefighters' and Fire Marshals' Certification Board

PO Box 1409 ♦ Manchaca, Texas 78652-1409

www.sffma.org ♦ 512.454.3473 (phone)

INSTRUCTIONAL SKILLS

FIRE STREAMS FF II - 2

Applying Foam

Trainee: _____

Department: _____

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. (5.3.1)

	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: 1. Bounces agent off walls or other obstructions 2. Applies the agent in front of the burning fuel and "rolls" the agent onto the fuel 3. In the absence of a wall or obstruction, gently lobs the agent onto the burning liquid	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		
TOTAL POINTS:	7		

Points needed to pass: 5

Evaluator/Candidate Comments:

Instructor's Signature

Date