

## INSTRUCTION SHEET BASIC AIRCRAFT RESCUE FIRE SUPPRESSION PERFORMANCE SKILLS

### Format

Similar Basic Aircraft Rescue Fire Suppression skills are combined into one skill sheet when possible. The skill sheet is divided into individual skill objectives. The examiner should evaluate the Basic Aircraft Rescue Fire Suppression candidates as they complete each skill of the evaluation. The skills that could not be combined are provided as independent skill sheets.

For skill sheets that do not contain time constraints, the Course Instructor should specify time constraints as necessary.

### Scoring Method

The scoring method is Satisfactory (S) or Unsatisfactory (U) for each step of the skill objective, and a Pass or Fail for each individual skill section. In order to successfully pass an individual skill section, the Basic Aircraft Rescue Fire Suppression candidate must receive satisfactory scores in all the steps of the skill objective. In order to receive an overall Pass on the skill sheet, the Basic Aircraft Rescue Fire Suppression candidate must receive a passing score for all individual skill sections.

If a step of a skill objective is scored "Unsatisfactory", only that skill objective must be retested. If a candidate fails an absolute step (\*) of a skill, then he or she must be retesting on the skill in its entirety. Any Unsatisfactory or individual skill failure shall require the examiner to explain the reason for the failure in written form in the comments section of the skill sheet.

### Preparation and Equipment

Many of the skill sheets require the use of department policies. It is suggested that Course Instructors use the policies and procedures of his or her department. If teaching this course at a non-departmental institution, acquire a fire department's policies and procedures, or modification thereof, to complete these skills.

For optimal learning, scenario-based training and role-playing is recommended; however, based on departmental needs certain activities may be simulated by other means.

**Examiners Note:** Please refer to the Standards Manual Chapter 427.7 when deciding which type of Protective Clothing is used during skills training. An excerpt is provided below.

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**§427.7 Protective Clothing.**

Each and every set of protective clothing, including proximity clothing, that will be used during the course of instruction for a commission approved fire protection personnel curriculum shall comply with §435.1 of this title (relating to Protective Clothing). This rule applies whether the protective clothing is provided by the academy or the trainee.

- (a) **Protective Clothing and elements no longer in use to the organization for emergency operations service, but are not contaminated, defective, or damaged, may be used for training that does not involve live fire training, provided such clothing and elements are appropriately marked to be easily recognized.**
- (b) **Protective clothing used for aircraft rescue, live fire training, shall be suitable for the type of fire the student is being trained for and shall be determined by the chief training officer of the training facility.**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

**GENERAL ARFF SKILL #1**  
Donning Personal Protective Equipment (PPE)

**PERFORMANCE STANDARD**

**Section 200-5.1.1.4**

**NFPA 1003 5.1.1.4**

**ARFF**

**OBJECTIVE**

The aircraft rescue firefighter candidate shall properly demonstrate the donning of personal protective clothing (PPE).

**INSTRUCTIONS – procedures for achieving the objective**

Given a complete set of personal protective clothing (coat, pants, hood, gloves, helmet, and boots); you will be required to properly don the proximity protective clothing. 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?

**EXAMINER NOTE:**

The aircraft rescue fire fighter candidate will not be allowed to review the performance steps at the time of testing.

**PREPARATION & EQUIPMENT**

PPE Ensemble (Pants and boots, coat, hood, helmet with shroud, gloves)

**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
 Performance Standards

**ARFF SKILL #1**  
 Donning Personal Protective Equipment (PPE)

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>General Skill Number 1</b>				
The aircraft rescue firefighter candidate shall properly demonstrate the donning of personal protective clothing (PPE). (NFPA 1003 5.1.1.4.)				
<b>The candidate shall safely and correctly don:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) pants and boots				
2) coat				
3) hood				
4) helmet				
5) gloves				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

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

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# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## RESPONSE ARFF SKILL #2

Response -Communications – Size Up

### PERFORMANCE STANDARD

Section 200-5.2.2

### NFPA 1003 5.2.2

ARFF

### OBJECTIVE

Communicate critical incident information regarding an incident or accident on or adjacent to an airport, given an assignment involving an incident or accident and an incident management system (IMS) protocol, so that the information provided is accurate and sufficient for the incident commander to initiate an attack plan.

### INSTRUCTIONS - procedures for achieving the objective

Given a scenario and communications equipment, you will operate communications systems, identify aircraft type, communicate an accurate situation report, and implement the incident management system (IMS) protocol according to the airport emergency plan. Do you understand these instructions?

### EXAMINER NOTE:

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

### PREPARATION & EQUIPMENT

Incident Management System protocol  
Airport emergency plan  
Communication equipment and procedure  
Fire attack procedures  
A given scenario

**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
 Performance Standards

**RESPONSE ARFF Skill #2**  
 Response -Communications – Size Up

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Response Skill Number 2</b>				
Communicate critical incident information regarding an incident or accident on or adjacent to an airport, given an assignment involving an incident or accident and an incident management system (IMS) protocol, so that the information provided is accurate and sufficient for the incident commander to initiate an attack plan. (NFPA 1003 5.2.2)				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) operate communication devices correctly				
2) communicate an accurate brief initial report, size-up and situation report				
3) implement IMS according to airport emergency plan				
4) identify aircraft types				
5) correctly utilize the IMS				
6) use proper radio etiquette				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

\_\_\_\_\_  
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"/>

**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

**RESPONSE ARFF SKILL #3**  
Response -Communications – Air Traffic Control (ATC)

**PERFORMANCE STANDARD**

**Section 200-5.2.3**

**NFPA 1003 5.2.3**

**ARFF**

**OBJECTIVE**

Communicate with applicable air traffic control facilities, given a response destination on or adjacent to an airport and radio equipment, so that all required clearances are obtained.

**INSTRUCTIONS - procedures for achieving the objective**

Given a scenario and communication equipment, you will operate communications equipment using aviation phraseology and the aviation phonetic alphabet. Do you understand these instructions?

**EXAMINER NOTE:**

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

**PREPARATION & EQUIPMENT**

Communication equipment and frequencies  
Tower light signal plans  
Fire department and airport terminology  
A response destination  
Other items as determined by the examiner

**TEXAS COMMISSION ON FIRE PROTECTION  
BASIC AIRCRAFT RESCUE FIRE FIGHTING**

Performance Standards

**RESPONSE ARFF SKILL #3**

Response -Communications – Air Traffic Control (ATC)

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Response Skill Number 3</b>				
Communicate with applicable air traffic control facilities, given a response destination on or adjacent to an airport and radio equipment, so that all required clearances are obtained.  (NFPA 1003 5.2.3)				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) identify starting point, intended destination, and intended path of travel				
2) confirm clearance with ground control (radio or tower light signals)				
3) identify unit calling and request emergency clearance to travel on the aircraft operations area (AOA)				
4) correctly use aviation radio phraseology				
5) correctly use phonetic alphabet				
6) use proper radio etiquette				
7) operate communication devices correctly				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

<hr/>	<hr/>	<b>Overall Skill Sheet Score</b>
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
<hr/>	<hr/>	<b>Overall Skill Sheet Re-Test Score</b>
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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**TEXAS COMMISSION ON FIRE PROTECTION  
BASIC AIRCRAFT RESCUE FIRE FIGHTING**

Performance Standards

**RESPONSE ARFF SKILL #4**

Response-Communications – Standby

**PERFORMANCE STANDARD**

**Section 200-5.2.4**

**NFPA 1003 5.2.4**

**ARFF**

**OBJECTIVE**

Perform an airport operation, given an assignment, a hazardous condition, and the airport policies and procedures, so that unsafe conditions are detected and reduced in accordance with the airport policies and procedures.

**INSTRUCTIONS - procedures for achieving the objective**

Given a scenario, you will recognize hazardous conditions, and take corrective action. Do you understand these instructions?

**EXAMINER NOTE:**

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

**PREPARATION & EQUIPMENT**

Airport policies and procedures for hazardous conditions

A given scenario

**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
 Performance Standards

**RESPONSE- ARFF SKILL #4**  
 Response-Communications – Standby

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Response Skill Number 4</b>				
Perform an airport operation, given an assignment, a hazardous condition, and the airport policies and procedures, so that unsafe conditions are detected and reduced in accordance with the airport policies and procedures.  (NFPA 1003 5.2.4)				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) review given assignment				
2) evaluate scenario for hazardous conditions				
3) address each hazardous condition separately				
4) resolve each hazardous condition according to policies and procedures				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**ARFF**  
Performance Standards

**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

\_\_\_\_\_  
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"/>

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

\_\_\_\_\_  
Date

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## RESPONSE ARFF SKILL #5 Response-Responding to Incidents

### PERFORMANCE STANDARD

Section 200-5.2.1

### NFPA 1003 5.2.1

ARFF

### OBJECTIVE

Respond to day and night incidents or accidents on and adjacent to the airport, given an assignment, operating conditions, a location, a grid map, a vehicle, and a prescribed response time, so that the route selected and taken provides access to the site within the allotted time.

### INSTRUCTIONS - procedures for achieving the objective

You will read an airport map with grid marks and interpret correct actions to be taken in relation to the grid map. You will be able to identify an airport water distribution location on the grid map. You will also verbalize or identify airport markings and lights in regards to the response scenario given. You will be given \_\_\_\_\_ minutes to complete this exercise. Do you understand these instructions?

### EXAMINER NOTE:

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing. Response time will be determined by AHJ and included in instructions above.

### PREPARATION & EQUIPMENT

Airport map with grid markings  
A given scenario

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## RESPONSE ARFF SKILL #5 Response-Responding to Incidents

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Response Skill Number 5</b>				
Respond to day and night incidents or accidents on and adjacent to the airport, given an assignment, operating conditions, a location, a grid map, a vehicle, and a prescribed response time, so that the route selected and taken provides access to the site within the allotted time.  (NFPA 1003 5.2.1)				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) find location given on airport grid map				
2) properly identify route to be taken				
3) identify any hazards of route to be taken				
4) correctly identify the water distribution system location(s) on the airport grid map				
5) identify airport markings affecting the response				
6) identify airport lighting affecting the response				
7) complete all steps within the allotted time				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**ARFF**  
 Performance Standards

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

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

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## RESCUE ARFF SKILL #6

Rescue - Access

### PERFORMANCE STANDARD

Section 200-5.4.1

### NFPA 1003 5.4.1

ARFF

### OBJECTIVE

Gain access into and out of an aircraft through normal entry points and emergency hatches, shut down and safety the aircraft, and assist in the evacuation process while operating as a member of a team, given PPE and an assignment, so that passenger evacuation and rescue can be accomplished.

### INSTRUCTIONS - procedures for achieving the objective

Working in a team with PPE, you will use ladders and high reach devices to access an aircraft and assist with emergency evacuation of the aircraft. After the evacuation you will safety the aircraft by shutting down the aircraft systems. Do you understand these instructions?

### EXAMINER NOTE:

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

### PREPARATION & EQUIPMENT

PrPPE

Aircraft or Simulator (interior)

Ladder or high reach device (airstairs)

Charged hand line

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## RESCUE ARFF SKILL #6

Rescue – Access

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Rescue Skill Number 6</b>				
Working in a team with PPE, the candidate will use power tools, ladders and high reach devices to access an aircraft and assist with emergency evacuation chutes of the aircraft. After the evacuation the candidate will safety the aircraft by shutting down the aircraft systems.  <p style="text-align: right;">(NFPA 1003 5.4.1)</p>				
<b>The candidate will correctly and safely:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) assist with evacuation and secure evacuation chutes				
2) operate power saw				
3) operate hydraulic spreader and cutter				
4) operate a pneumatic cutter				
5) operate a pulling device				
6) operate a specialized ladder				
7) operate a high reach device (if available)				
8) shut down aircraft systems				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

\_\_\_\_\_  
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"/>

**TEXAS COMMISSION ON FIRE PROTECTION  
BASIC AIRCRAFT RESCUE FIRE FIGHTING**

Performance Standards

**RESCUE ARFF SKILL #7**

Rescue - Disentangle

**PERFORMANCE STANDARD**

**Section 200-5.4.2**

**NFPA 1003 5.4.2**

**ARFF**

**OBJECTIVE**

Locate and disentangle an entrapped victim from an aircraft as a member of a team, given PPE, a team and an assignment, and rescue tools, so that the victim is freed from entrapment without undue further injury and hazards are managed.

**INSTRUCTIONS - procedures for achieving the objective**

Working in a team with PPE, you will use power tools to access an entrapped victim and disentangle the victim without undue further injury while managing any hazards present. Do you understand these instructions?

**EXAMINER NOTE:**

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

**PREPARATION & EQUIPMENT**

PPE

Aircraft wreckage

Charged hand line

Powered forcible entry tools

Rescue mannequin

A given scenario

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## RESCUE ARFF SKILL #7

Rescue - Disentangle

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Response Skill Number 7</b>				
Working in a team with PPE, the candidate will use power tools to access an entrapped victim and disentangle the victim without undue further injury while managing any hazards present. (NFPA 1003 5.4.2)				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) correctly perform search procedures				
2) control any hazards				
3) safely remove victim				
4) correctly and safely operate rescue tools				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
 Performance Standards

**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

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

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**TEXAS COMMISSION ON FIRE PROTECTION  
BASIC AIRCRAFT RESCUE FIRE FIGHTING**

Performance Standards

**RESCUE ARFF SKILL #8**

Rescue - Triage

**PERFORMANCE STANDARD**

**Section 200-5.4.3**

**NFPA 1003 5.4.3**

**ARFF**

**OBJECTIVE**

Implement initial triage of the victims of an aircraft accident, given PPE, an assignment, and triage protocol of the AHJ, so that each victim is evaluated and correctly categorized according to protocol.

**INSTRUCTIONS - procedures for achieving the objective**

Working in PPE, you will use the AHJ's protocol to implement initial triage to victims placing them in the proper categories for treatment and transport. Do you understand these instructions?

**EXAMINER NOTE:**

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

**PREPARATION & EQUIPMENT**

PPE

Triage tags (color-coded)

Simulated victims

A given scenario

**TEXAS COMMISSION ON FIRE PROTECTION  
BASIC AIRCRAFT RESCUE FIRE FIGHTING**

Performance Standards

**RESCUE ARFF SKILL #8**

Rescue - Triage

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Response Skill Number 8</b>				
Working in PPE, the candidate will use the AHJ's protocol to implement initial triage to victims placing them in the proper categories for treatment and transport.  (NFPA 1003 5.4.3.)				
<b>The candidate will correctly:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) size-up scene, ensuring scene is safe				
2) set up triage areas for each category				
3) use proper PPE				
4) assess the critical factors of patient condition				
5) tag patient for triage category				
6) direct movement of patients to triage category area				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

\_\_\_\_\_  
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"/>

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #9

Suppression - Interior

### PERFORMANCE STANDARD

Section 200-5.3.5

### NFPA 1003 5.3.5

ARFF

### OBJECTIVE

Attack a fire on the interior of an aircraft while operating as a member of a team, given a team, PPE, an assignment, an ARFF vehicle hand line, an extinguishing agent, and a ladder or other means of accessing the aircraft, so that team integrity is maintained, the attack line is deployed for advancement, ladders or other means are used, access is gained into the fire area, effective agent application practices are used, the fire is approached, attack techniques facilitate suppression given the level of the fire, hidden fires are located and controlled, hazards are avoided or managed, and the fire is brought under control.

### INSTRUCTIONS - procedures for achieving the objective

You will attack a fire on the interior of an aircraft while operating as a member of a team. The team will don their PPE, be given an assignment, an ARFF vehicle hand line, an extinguishing agent. The team will deploy a ladder or utilize other means of accessing the aircraft. The team integrity is to be maintained during the entire evolution of the skill. The team ensures proper attack line deployment for advancement. The team safely ladders and gains access into the aircraft and the involved fire area. The team will demonstrate effective agent application practices, the fire is approached, and attack techniques facilitate suppression given the level of the fire. All hidden fires are located and controlled inside the interior of the aircraft. Aircraft interior hazards are avoided or managed, and the fire is brought under control. Do you understand these instructions?

### EXAMINER NOTE:

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

### PREPARATION & EQUIPMENT

PPE

ARFF apparatus

Handlines

Ladder

**TEXAS COMMISSION ON FIRE PROTECTION  
BASIC AIRCRAFT RESCUE FIRE FIGHTING**

Performance Standards

**SUPPRESSION ARFF SKILL #9**

Suppression – Interior

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Response Skill Number 9</b>				
Attack a fire on the interior of an aircraft while operating as a member of a team, given a team, PPE, an assignment, an ARFF vehicle hand line, an extinguishing agent, and a ladder or other means of accessing the aircraft, so that team integrity is maintained, the attack line is deployed for advancement, ladders or other means are used, access is gained into the fire area, effective agent application practices are used, the fire is approached, attack techniques facilitate suppression given the level of the fire, hidden fires are located and controlled, hazards are avoided or managed, and the fire is brought under control.  (NFPA 1003 5.3.5)				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) Maintain team integrity for duration of skill scenario				
2) Gain access to aircraft interior				
3) Open, close, and adjust nozzle flow and patterns				
4) Apply agent using direct, indirect, and combination attacks				
5) Advance charged and uncharged hose lines up ladders and up and down interior and exterior stairways				
6) Locate and suppress interior fires				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

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

**TEXAS COMMISSION ON FIRE PROTECTION  
BASIC AIRCRAFT RESCUE FIRE FIGHTING**

Performance Standards

**SUPPRESSION ARFF SKILL #10**

Suppression - Ventilation

**PERFORMANCE STANDARD**

**Section 200-5.3.8**

**NFPA 1003 5.3.8**

**ARFF**

**OBJECTIVE**

Ventilate an aircraft through available doors and hatches while operating as a member of a team, given PPE, an assignment, tools and mechanical ventilation devices, so that openings are created, all ventilation barriers are removed and the heat and all products of combustion are released.

**INSTRUCTIONS - procedures for achieving the objective**

Operating as a member of a team, given PPE and an assignment, you will operate doors and hatches. You will operate mechanical ventilation devices and remove barriers. Do you understand these instructions?

**EXAMINER NOTE:**

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

**PREPARATION & EQUIPMENT**

PPE

SCBA

Mechanical ventilation device

Aircraft door, hatch, or equivalent simulator

A given scenario

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #10

Suppression - Ventilation

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Suppression Skill Number 10</b>				
Ventilate an aircraft through available doors and hatches while operating as a member of a team, given PPE, an assignment, tools and mechanical ventilation devices, so that openings are created, all ventilation barriers are removed and the heat and all products of combustion are released.  <p style="text-align: right;">(NFPA 1003 5.3.8)</p>				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) choose correct aircraft access point				
2) safely operate aircraft door or hatch				
3) remove obstructions or barriers to ventilation process				
4) set up and operate mechanical ventilation device at opening provided				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

\_\_\_\_\_  
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"/>

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #11

Suppression-Preserve Scene and Overhaul

### PERFORMANCE STANDARD

Section 200-5.3.10, 5.3.11

NFPA 1003 5.3.10, 5.3.11

ARFF

### OBJECTIVE

5.3.10 - Preserve the aircraft accident scene, given an assignment and procedures, so that evidence is identified, protected, and reported according to procedures.

5.3.11 - Overhaul the accident scene, given PPE, an assignment, hand lines, and property conservation equipment, so that all fires are located, exposed, and extinguished and all property is protected from further damage.

### INSTRUCTIONS - procedures for achieving the objective

Working in a team with PPE, hand line and property conservation equipment, you will search a debris field or wrecked fuselage and locate, expose and extinguish any hidden fires to protect property from further damage. Preserve the aircraft accident scene so that evidence is identified, protected, and reported according to procedures. Do you understand these instructions?

### EXAMINER NOTE:

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

### PREPARATION & EQUIPMENT

Airport evidence preservation and reporting policies and procedures

Airport emergency plan

PPE

Debris field or aircraft

Thermal imager

Charged hand line

Forcible entry tools

Heat source

A given scenario

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #11 Suppression-Preserve Scene and Overhaul

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

Dept: \_\_\_\_\_

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

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

<b>Suppression-Skill Number 11</b>	<b>TEST</b>		<b>RETEST</b>	
	<b>PASS</b>	<b>FAIL</b>	<b>PASS</b>	<b>FAIL</b>
<b>Part One</b>				
Preserve the aircraft accident scene, given an assignment and procedures, so that evidence is identified, protected, and reported according to procedures.  <p style="text-align: right;">(NFPA 1003 5.3.10)</p>				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) identify scene preservation methods				
2) identify evidence identification procedures				
3) identify evidence protection procedures				
4) identify evidence reporting procedures				

<b>Suppression-Skill Number 11</b>	<b>TEST</b>		<b>RETEST</b>	
	<b>PASS</b>	<b>FAIL</b>	<b>PASS</b>	<b>FAIL</b>
<b>Part Two</b>				
Overhaul the accident scene, given PPE, an assignment, hand lines, and property conservation equipment, so that all fires are located, exposed, and extinguished and all property is protected from further damage.  <p style="text-align: right;">(NFPA 1003 5.3.11)</p>				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) secure area and ensure overhaul does not disturb evidence				
2) use property conservation equipment				
3) locate hidden fire (heat source); use thermal imager if available				

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# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

## Performance Standards

4) use tools and equipment to expose hidden fire				
5) correctly extinguish fire				
6) prevent re-ignition of fire				

**Examiner/Candidate Comments:**

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

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

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #12 Suppression – Dry Chemical Extinguisher

### PERFORMANCE STANDARD

Section 200-5.3.1

### NFPA 1003 5.3.1

ARFF

### OBJECTIVE

Extinguish a 23.2 m<sup>2</sup> (250 ft<sup>2</sup>) aircraft fuel spill fire, given PPE, a minimum of a 45 kg (100 lb) dry chemical fire extinguisher, and procedures, so that the agent is applied according to procedures and the fire is extinguished in 25 seconds.

### INSTRUCTIONS - procedures for achieving the objective

You shall, as a member of a team and utilizing PPE, operate dry chemical extinguishers equipped with a hose line, including removing and operating hose and applying agent, using prescribed techniques sufficient to extinguish a 23.2 m<sup>2</sup> (250ft<sup>2</sup>) fire in 25 seconds. Do you understand these instructions?

### EXAMINER NOTE:

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

### PREPARATION & EQUIPMENT

PPE

100 lb (minimum) dry chemical fire extinguisher with hose line

Safety hand line (manned and charged) from secondary supply source per NFPA1403

Tank/contained area to recreate aircraft fuel spill

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #12 Suppression – Dry Chemical Extinguisher

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

Dept: \_\_\_\_\_

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

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

	<b>TEST</b>		<b>RETEST</b>	
	<b>PASS</b>	<b>FAIL</b>	<b>PASS</b>	<b>FAIL</b>
<b>Suppression Skill Number 12</b>				
Extinguish a 23.2 m <sup>2</sup> (250 ft <sup>2</sup> ) aircraft fuel spill fire, given PPE, a minimum of a 45 kg (100 lb) dry chemical fire extinguisher, and procedures, so that the agent is applied according to procedures and the fire is extinguished in 25 seconds. <span style="float: right;">(NFPA 1003 5.3.1)</span>				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) place the extinguisher system into operation				
2) approach fire from the upwind position				
3) direct agent at the base of the fire, using an aggressive sweeping motion				
4) use techniques applied with consideration to fire behavior of aircraft fuels, pooling of fuel fires, physical properties and characteristics of aircraft fuel				
5) avoid splashing or churning fuel with agent stream				
6) extinguish the fire in 25 seconds or less, and monitor area for re-ignition				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

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

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #13

Suppression – Operate Fire Streams, Apply Agent

### PERFORMANCE STANDARD

Section 200-5.3.2

### NFPA 1003 5.3.2

ARFF

### OBJECTIVE

Extinguish an aircraft fuel spill fire, given PPE, an assignment, agent application procedures, an ARFF vehicle hand line flowing a minimum of 359 L/min (95 gpm) of AFFF extinguishing agent, and a fire sized to the flow rate used [AFFF flow rate divided by 4.92 L/min/m<sup>2</sup> for fire size in square meters (0.13 gpm/min/ft<sup>2</sup> for fire size in square feet)], so that the agent is applied using the prescribed techniques and the fire is extinguished in a time proportionate to, but no longer than, 90 seconds for a 73 m<sup>2</sup> (786 ft<sup>2</sup>) fire with a flow rate at 359 L/min (95 gpm).

### INSTRUCTIONS - procedures for achieving the objective

You shall, as a member of a team and utilizing PPE, operate fire streams and apply AFFF using the prescribed techniques, extinguish the fire in no more than 90 seconds. Do you understand these instructions?

### EXAMINER NOTE:

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing. Extinguishment time should be calculated for size of fire prior to exercise.

### PREPARATION & EQUIPMENT

PPE

ARFF Apparatus equipped with a 95 gpm minimum hand line  
Aqueous film forming foam (AFFF) or equivalent training agent  
Tank/ contained area to recreate aircraft fuel spill  
A given scenario

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #13

Suppression – Operate Fire Streams, Apply Agent

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Suppression Skill Number 13</b>				
Extinguish an aircraft fuel spill fire, given PPE, an assignment, agent application procedures, an ARFF vehicle hand line flowing a minimum of 359 L/min (95 gpm) of AFFF extinguishing agent, and a fire sized to the flow rate used [AFFF flow rate divided by 4.92 L/min/m <sup>2</sup> for fire size in square meters (0.13 gpm/min/ft <sup>2</sup> for fire size in square feet)], so that the agent is applied using the prescribed techniques and the fire is extinguished in a time proportionate to, but no longer than, 90 seconds for a 73 m <sup>2</sup> (786 ft <sup>2</sup> ) fire with a flow rate at 359 L/min (95 gpm). (NFPA 1003 5.3.2)				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) approach fire from an upwind position				
2) maintain team integrity for duration of skill				
3) charge hand line and adjust nozzle pressure to produce effective pattern				
4) use techniques applied with consideration to fire behavior of aircraft fuels, pooling of fuel fires, physical properties, and characteristics of aircraft fuel				
5) avoid splashing or churning fuel with agent stream, apply agent with a sweeping motion and avoid walking through the foam blanket				
6) extinguish fire within 90 seconds and area is monitored for re-ignition.				

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
 Performance Standards

**Examiner/Candidate Comments:**

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

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

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# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #14 Suppression – Three-Dimensional Fire

### PERFORMANCE STANDARD

Section 200-5.3.4

### NFPA 1003 5.3.4

ARFF

### OBJECTIVE

Extinguish a three-dimensional aircraft fuel fire as a member of a team, given a team, PPE, an assignment, ARFF vehicle hand line(s) using primary and secondary agents, and agent application procedures, so that a dual-agent attack is used, the agent is applied according to procedures, the fire is extinguished, and the fuel source is secured.

### INSTRUCTIONS - procedures for achieving the objective

Working as a member of a team, utilizing PPE and an ARFF vehicle hand line with dual-agent capability, you will operate fire streams applying primary and secondary ARFF agents, using prescribed techniques sufficient to extinguish a three-dimensional fire. Do you understand these instructions?

### EXAMINER NOTE:

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

### PREPARATION & EQUIPMENT

PPE

Training agent (AFFF, dry chemical, Halon, Halotron<sup>®</sup>, water)

ARFF vehicle equipped with dual-agent hand line capability

Safety hand line (manned and charged) from secondary supply source per NFPA 1403

Airport or training facilities procedure to recreate a three-dimensional fire

A given scenario

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**TEXAS COMMISSION ON FIRE PROTECTION  
BASIC AIRCRAFT RESCUE FIRE FIGHTING**

Performance Standards

**SUPPRESSION ARFF SKILL #14**  
Suppression – Three-Dimensional Fire

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Suppression Skill Number 14</b>				
Extinguish a three-dimensional aircraft fuel fire as a member of a team. Given a team, PPE, an assignment, ARFF vehicle hand line(s) using primary and secondary agents, and agent application procedures, so that a dual-agent attack is used, the agent is applied according to procedures, the fire is extinguished, and the fuel source is secured. (NFPA 1003 5.3.4)				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) maintain team integrity for duration of skill				
2) charge hand line(s) and adjust nozzle pressure to produce effective pattern(s)				
3) approach fire from upwind position				
4) use techniques applied with consideration to fire behavior of aircraft fuels in three-dimensional state, pooling of fuel fires, physical properties and characteristics of aircraft fuel				
5) avoid splashing or churning of pooled fuel with agent streams, and avoid walking through applied agent(s)				
6) monitor area for re-ignition				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
 Performance Standards

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

\_\_\_\_\_  
 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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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

**SUPPRESSION ARFF SKILL #15**  
Suppression – Engine or Auxiliary Power Unit (EPU/APU)

**PERFORMANCE STANDARD**

**Section 200-5.3.6**

**NFPA 1003 5.3.6**

**ARFF**

**OBJECTIVE**

Attack an engine or auxiliary power unit/emergency power unit (APU/EPU) fire on an aircraft while operating as a member of a team, given PPE, an assignment, ARFF vehicle hand line or turret, a correct agent, and agent application procedures, so that agent application procedures are followed, the fire is extinguished, and the engine or APU/EPU is shut down.

**INSTRUCTIONS - procedures for achieving the objective**

Working as a member of a team, utilizing PPE, you will deploy and operate ARFF handline or turrets, gain access to aircraft engine and APU/EPU, and shut down engine and APU. Do you understand these instructions?

**EXAMINER NOTE:**

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

**PREPARATION & EQUIPMENT**

PPE

SCBA

ARFF vehicle with turret

Policies and procedures regarding extinguishment of aircraft engine/APU/EPU fires

A given scenario

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #15

Suppression – Engine or Auxiliary Power Unit (EPU/APU)

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Suppression Skill Number 15</b>				
Attack an engine or auxiliary power unit/emergency power unit (APU/EPU) fire on an aircraft while operating as a member of a team, given PPE, an assignment, ARFF vehicle hand line or turret, a correct agent, and agent application procedures, so that agent application procedures are followed, the fire is extinguished, and the engine or APU/EPU is shut down.  <p style="text-align: right;">(NFPA 1003 5.3.6)</p>				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) setup attack from a safe distance				
2) select proper agent				
3) engage extinguishing system and ARFF handline				
4) approach fire in accordance with safety procedures (i.e. upwind position, rear or front of wheel assembly)				
5) gain access to aircraft engine and APU/EPU				
6) select and operate the appropriate turret(s)/handline				
7) shut down engine and APU				
8) manage agent supply with accurate/effective stream placement				
9) apply agent in a sweeping motion and avoid walking through foam blanket				

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

**Examiner/Candidate Comments:**

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

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

**TEXAS COMMISSION ON FIRE PROTECTION  
BASIC AIRCRAFT RESCUE FIRE FIGHTING**

Performance Standards

**SUPPRESSION ARFF SKILL #16**

Suppression – Wheel Fire

**PERFORMANCE STANDARD**

**Section 200-5.3.7**

**NFPA 1003 5.3.7**

**ARFF**

**OBJECTIVE**

Attack a wheel assembly fire, as a member of a team, given PPE, a team, an assignment, an ARFF vehicle hand line, and correct agent, so that the fire is extinguished.

**INSTRUCTIONS - procedures for achieving the objective**

Working as a member of a team, utilizing PPE, you will attack a wheel assembly fire. You will approach the fire in accordance with safety procedures, select and apply agent to extinguish the fire. Do you understand these instructions?

**EXAMINER NOTE:**

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

**PREPARATION & EQUIPMENT**

ARFF Vehicle

PPE

SCBA

Wheel assembly fire

Hand line

Various training agents (AFFF, dry chemical, Halon, Halotron<sup>®</sup>, water)

Other items as determined by the examiner

A given scenario

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #16

Suppression – Wheel Fire

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Suppression Skill Number 16</b>				
Attack a wheel assembly fire, as a member of a team, given PPE, a team, an assignment, an ARFF vehicle hand line, and correct agent, so that the fire is extinguished.  <p style="text-align: right;">(NFPA 1003 5.3.7)</p>				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) be aware of fusible plug problems				
2) setup attack from a safe distance				
3) select proper agent				
4) engage extinguishing system and ARFF handline				
5) approach fire in accordance with safety procedures (i.e. upwind position, rear or front of wheel assembly)				
6) adjust nozzle to produce an effective pattern				
7) direct agent at the base of the fire				
8) monitor area for re-ignition				

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
 Performance Standards

**Examiner/Candidate Comments:**

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**All steps of the skill objective are mandatory and must be scored as  
 “Satisfactory” to pass the skill.**

\_\_\_\_\_  
 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"/>

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

\_\_\_\_\_  
 Date

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #17 Suppression – ARFF Vehicle Turret Fire

### PERFORMANCE STANDARD

Section 200-5.3.3

### NFPA 1003 5.3.3

ARFF

### OBJECTIVE

Extinguish an aircraft fuel spill fire, given an assignment, PPE, an ARFF vehicle turret flowing a minimum of 946 L/min (250 gpm), a fire sized to the flow rate used [AFFF flow rate divided by 4.92 L/min/m<sup>2</sup> for fire size in square meters (0.13 gpm/min/ft<sup>2</sup> for fire size in square feet)], and the procedures for agent application, so that the agent is applied according to procedures and the fire is extinguished in a time proportionate to, but no longer than 90 seconds for 192m<sup>2</sup> (1932 ft<sup>2</sup>) fire with a flow rate of 946L/min (250 gpm).

### INSTRUCTIONS - procedures for achieving the objective

Working as a member of a team and utilizing PPE, you will identify hazardous conditions and apply fire-fighting agents and streams using ARFF vehicle turrets, to extinguish an aircraft fuel spill fire in less than 90 seconds. Do you understand these instructions?

### EXAMINER NOTE:

The aircraft rescue fire fighter candidate will not be allowed to review the performance steps at the time of testing. Extinguishment time should be calculated for size of fire prior to exercise.

### PREPARATION & EQUIPMENT

PPE

ARFF vehicle equipped with 250 gpm minimum turret

Secondary ARFF vehicle (manned) or other means of backup for safety per NFPA 1403

Airport or training center's procedure to recreate an aircraft fuel spill

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #17

Suppression – ARFF Vehicle Turret Fire

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Suppression Skill Number 17</b>				
Extinguish an aircraft fuel spill fire, given an assignment, PPE, an ARFF vehicle turret flowing a minimum of 946 L/min (250 gpm), a fire sized to the flow rate used [ARFF flow rate divided by 4.92 L/min/m <sup>2</sup> for fire size in square meters (0.13 gpm/min/ft <sup>2</sup> for fire size in square feet)], and the procedures for agent application, so that the agent is applied according to procedures and the fire is extinguished in a time proportionate to, but no longer than 90 seconds for 192m <sup>2</sup> (1932 ft <sup>2</sup> ) fire with a flow rate of 946L/min (250 gpm). <p style="text-align: right;">(NFPA 1003 5.3.3)</p>				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) engage the ARFF vehicle fire fighting systems				
2) approach and apply agent from an upwind position				
3) select and operate the appropriate turret(s)				
4) modulate ARFF vehicle around the fire area, while applying agent in sweeping motion, pushing the fire away from the aircraft fuselage				
5) avoid driving through foam blanket				
6) perform assigned operation in compliance with airport policies and procedures				
7) extinguish the fire within the specified time (90 seconds or less)				

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

**Examiner/Candidate Comments:**

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

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

**TEXAS COMMISSION ON FIRE PROTECTION  
BASIC AIRCRAFT RESCUE FIRE FIGHTING**

Performance Standards

**SUPPRESSION ARFF – SKILL #18**

Suppression - Replenish Extinguishing Agents

**PERFORMANCE STANDARD**

**Section 200-5.3.9**

**NFPA 1003 5.3.9**

**ARFF**

**OBJECTIVE**

Replenish extinguishing agents while operating as a member of a team, given an assignment, an ARFF vehicle, a fixed or mobile water source, a supply of agent, and supply lines and fittings, so that agents are available for application by the ARFF vehicle within the time established by the authority having jurisdiction (AHJ).

**INSTRUCTIONS – procedures for achieving the objective**

Working as a member of a team, you will demonstrate the procedures to replenish the vehicle agent and water supply. Do you understand these instructions?

**EXAMINER NOTE:**

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

**PREPARATION & EQUIPMENT:**

Helmet  
Gloves  
Boots  
Eye protection  
ARFF vehicle  
A given scenario

# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF – SKILL #18

Suppression - Replenish Extinguishing Agents

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>Suppression Skill Number 18</b>				
Replenish extinguishing agents while operating as a member of a team, given an assignment, an ARFF vehicle, a fixed or mobile water source, a supply of agent, and supply lines and fittings, so that agents are available for application by the ARFF vehicle within the time established by the authority having jurisdiction (AHJ).  <p style="text-align: right;">(NFPA 1003 5.3.9)</p>				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) use proper PPE, such as helmet, eye protection and gloves				
2) flush hydrant before attaching supply line				
3) connect supply line to hydrant (or mobile water source) and vehicle intake				
4) open water tank and foam tank vent covers				
5) operate hydrant and valves to fill water tank. Close valves when full of water				
6) open and close valves slowly to prevent water hammer				
7) manually fill foam tank with proper amount and type of foam system used				
8) close vent covers, disconnect lines, and return intake cap				
9) ensure water has drained from hydrant before replacing hydrant cap				
10) complete skill within the time established by the AHJ				

**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
 Performance Standards

**Examiner/Candidate Comments:**

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

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

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# TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards

## SUPPRESSION ARFF SKILL #19

General – Engine and Cargo Extinguishing

### PERFORMANCE STANDARD

Section 200-5.1.1.4

NFPA 1003 5.1.1.4

ARFF

### OBJECTIVE

Attack an engine or cargo compartment fire on an aircraft while operating as a member of a team, given PPE, an assignment, operate aircraft extinguishing systems, including cargo area extinguishing systems, so that the fire is extinguished, and the engine is shut down.

### INSTRUCTIONS - procedures for achieving the objective

Working as a member of a team and utilizing PPE, you will gain access to aircraft engine and cargo fire controls, shut down the engine, and activate extinguishing systems for both engine and cargo systems. Do you understand these instructions?

### EXAMINER NOTE:

The aircraft rescue fire fighter trainee will not be allowed to review the performance steps at the time of testing.

### PREPARATION & EQUIPMENT

PPE

SCBA

Policies and procedures regarding extinguishment of aircraft engine and cargo fires with onboard extinguishing systems

Aircraft emergency extinguishing controls or equivalent simulator

A given scenario

**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
 Performance Standards

**SUPPRESSION ARFF SKILL #19**  
 Suppression – Engine and Cargo Extinguishing

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

Dept: \_\_\_\_\_

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

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

	<u>TEST</u>		<u>RETEST</u>	
	PASS	FAIL	PASS	FAIL
<b>General Skill Number 19</b>				
Attack an engine or cargo compartment fire on an aircraft while operating as a member of a team, given PPE, an assignment, operate aircraft extinguishing systems, including cargo area extinguishing systems, so that the fire is extinguished, and the engine is shut down.				
<b>The candidate will:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
1) Operate hatches, doors, and evacuation chutes				
2) Approach, position, and initially attack an aircraft fire				
3) Select, apply, and manage extinguishing agents				
4) Shut down aircraft systems, including engine, electrical, hydraulic, and fuel systems				
5) Operate aircraft extinguishing systems, including cargo area extinguishing systems				

**Examiner/Candidate Comments:**

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**TEXAS COMMISSION ON FIRE PROTECTION**  
**BASIC AIRCRAFT RESCUE FIRE FIGHTING**  
Performance Standards

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**All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.**

\_\_\_\_\_  
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"/>

**AIRCRAFT (ARFF)... LIST OF EQUIPMENT:**

**A COMPLETE SET OF PROXIMITY CLOTHING**

**ELECTRIC HAND LANTERNS & PORTABLE LIGHTING**

**TUBE CUTTER USED TO DISARM EJECTION SEATS, per AHJ**

**INSULATED CUTTER RATED WITH A INSULATION RESISTANCE OF 20,000 VOLTS**

**100 lb (minimum) dry chemical extinguisher**

**Mechanical Ventilation Device**

**PRY-AXES**

**SCBAS**

**Rotary POWER SAW**

**PNEUMATIC TOOLS**

**HARNES CUTTERS**

**Hydraulic tools**

**Aircraft Firefighting Simulator (interior/exterior)**

**FIRE FIGHTING AGENTS AS REQUIRED FOR TYPE OF AIRCRAFT**

**GRID MAP OF AIRPORT**

**LADDERS**

**Information to include PICTURES or drawings OF ASSIGNED AIRCRAFT (LAYOUT) SHOWING aircraft systems**

**Airport Emergency Plan**

**Rescue Mannequin**

**Simulated Victims**

**Triage Tags**

**Thermal Imager**

**TWO-WAY RADIO**

**AIRCRAFT RESCUE & FIRE FIGHTING VEHICLES FOR ASSIGNED  
AIRCRAFT**

**Charged and Manned Handline**

**Heat source**

**Simulated debris field**

**SUPPORT VEHICLES per AHJ**

## ARFF Skills

Discipline	Objective	Skill No.	Functional Name	NFPA JPR #
ARFF	General	1	Donning Personal Protective Equipment (PPE)	5.1.1.4
ARFF	Response	2	Response - Communications - Size Up	5.2.2
ARFF	Response	3	Response - Communications - Air Traffic Control (ATC)	5.2.3
ARFF	Response	4	Response - Communications - Standby	5.2.4
ARFF	Response	5	Response - Responding to Incidents	5.2.1
ARFF	Rescue	6	Rescue - Access	5.4.1
ARFF	Rescue	7	Rescue - Disentangle	5.4.2
ARFF	Rescue	8	Rescue - Triage	5.4.3
ARFF	Suppression	9	Suppression - Interior	5.3.5
ARFF	Suppression	10	Suppression - Ventilation	5.3.8
ARFF	Suppression	11	Suppression - Preserve Scene and Overhaul	5.3.10, 5.3.11
ARFF	Suppression	12	Suppression - Dry Chemical Extinguisher	5.3.1
ARFF	Suppression	13	Suppression - Operate Fire Streams; Apply Agent	5.3.2
ARFF	Suppression	14	Suppression - Three-Dimensional Fire	5.3.4
ARFF	Suppression	15	Suppression - Engine or Auxiliary Power Unit	5.3.6
ARFF	Suppression	16	Suppression - Wheel Fire	5.3.7
ARFF	Suppression	17	Suppression - ARFF Vehicle Turret Fire	5.3.3
ARFF	Suppression	18	Suppression - Replenish Extinguishing Agents	5.3.9
ARFF	General	19	General - Engine and Cargo Extinguishing	5.1.1.4