

SKILLS MANUAL

CHAPTER TWO

BASIC AIRCRAFT RESCUE FIRE SUPPRESSION

NFPA 1003, 2019 Edition

EFFECTIVE JANUARY 1, 2022



Texas Commission on Fire Protection
P.O. Box 2286 Austin, Texas 78768-2286 (512) 936-3838

INSTRUCTIONS

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

For all performance skills, each step of the skill objective will be scored either Satisfactory (S) or Unsatisfactory (U). If any step of a skill objective is scored “Unsatisfactory”, the candidate fails that skill and it must be retested in its entirety. Any “Unsatisfactory” rating shall require the examiner to explain the reason for the failure in writing 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.

Examiner’s 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.

§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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EQUIPMENT LIST

Personal Protective Equipment

- A complete NFPA 1971-compliant firefighter protective ensemble per student
- Self-contained breathing apparatus (SCBA)

Communications Equipment

- Two-way radio
- Light Gun (ATC)

SOP/MOP/SOG/PP:

- Airport/FD/Organizational Incident-Specific Response SOPs
- Incident Management Protocol
- Airport Emergency Plan (actual or training version)
- Airport Grid Map
- Aircraft schematics/diagrams
- AHJ Triage Protocol
- Fire attack procedures
- SDS for each extinguishing agent

Access to ATC (or a simulated ATC)

- Radio communication
- Light-gun signals

Training Devices/Props/Simulators

- Aircraft firefighting simulator (interior and exterior)
- Aircraft fuel spill tank/containment area (burn pan or equivalent)
- APU/EPU prop or equivalent
- Wheel assembly fire prop or equivalent

Vehicles

- ARFF vehicles for assigned aircraft
- ARFF vehicle with 250 gpm minimum turret
- Support vehicles per AHJ

Training Extinguishing Agents

- Approved Extinguishing agents as required by aircraft
- Charged and staffed handline

Tools and Equipment

- Electric hand lanterns and portable lighting
- Tube cutter (used to disarm ejection seats – per AHJ)

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- Insulated cutter rated with an insulation resistance of 20,000 volts
- Mechanical ventilation device
- Pry axe
- Rotary powered saw
- Harness cutters
- Powered rescue tools (battery-powered, pneumatic, and/or hydraulic)
- Portable fire extinguishers (as needed)
- Cutting tools
- Pulling device
- Mechanical ventilation device
- Ladders
- Rescue mannequin
- Simulated victims
- Triage tags
- Thermal Imager
- Property conservation equipment
- Simulated debris field
- Heat source
- High reach device (airstairs)

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ARFF Skills List

Objective	Skill No.	Functional Name	NFPA JPR #
General	1	Donning Personal Protective Equipment (PPE)	4.1.1.4
General	2	Operating Aircraft Extinguishing System for an Engine or Cargo Compartment Fire	4.1.1.4
Response	3	Responding to Incidents	4.2.1
Response	4	Communications - Size Up	4.2.2
Response	5	Communicate with Air Traffic Control (ATC)	4.2.3
Response	6	Communications - Standby	4.2.4
Suppression	7	Operate Fire Streams, Apply Agent	4.3.1
Suppression	8	ARFF Vehicle Turret Fire	4.3.2
Suppression	9	Three-Dimensional Fire	4.3.3
Suppression	10	Interior Aircraft Fire	4.3.4
Suppression	11	Engine or Auxiliary Power Unit (EPU/APU) Fire	4.3.5
Suppression	12	Wheel Fire	4.3.6
Suppression	13	Ventilate an Aircraft	4.3.7
Suppression	14	Replenish Extinguishing Agents	4.3.8
Suppression	15	Preserve Scene	4.3.9
Suppression	16	Overhaul	4.3.10
Rescue	17	Emergency Evacuation - Shut Down Systems	4.4.1
Rescue	18	Disentangle Entrapped Victim	4.4.2
Rescue	19	Triage	4.4.3

TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

General – Skill 1

Donning Personal Protective Equipment (PPE)

NFPA 1003, 2019 edition, 4.1.1.4

OBJECTIVE

The aircraft rescue firefighter candidate shall properly demonstrate the donning of personal protective clothing (PPE). (4.1.1.4)

INSTRUCTIONS – procedures for achieving the objective

Given a complete set of approved PPE (coat, pants, hood, gloves, helmet, and boots), you will be required to properly don the 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'S 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 (coat, pants, hood, gloves, helmet, and boots)

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

General – Skill 1

Donning Personal Protective Equipment (PPE)

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
Skill 1	S	U	S	U
The aircraft rescue firefighter candidate shall properly demonstrate the donning of personal protective clothing (PPE). (4.1.1.4)				
The candidate safely and correctly donned:	S	U	S	U
1) Pants and boots				
2) Coat				
3) Hood				
4) Helmet				
5) Gloves				
6) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

Examiner/Candidate Comments:

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

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 Evaluation

General – Skill 2

Operating Aircraft Extinguishing Systems for an Engine or Cargo Compartment Fire

NFPA 1003, 2019 edition, 4.1.1.4

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, gain access to aircraft engine and cargo fire controls, shut down the engine, and activate aircraft fire protection systems for both engine and cargo-compartments. If the aircraft fire protection system fails to extinguish the fire, you may be tasked with opening-hatches, cargo doors, or engine cowlings to fully extinguish the fire. Do you understand these instructions?

EXAMINER'S 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

An attack scenario

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

Performance Standards Evaluation

General – Skill 2

Engine or Cargo Compartment Fire

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 2				
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.				
The candidate:	S	U	S	U
1) Approached, positioned and initially attacked an aircraft fire				
2) Operated hatches, doors, and evacuation chutes				
3) Shut down aircraft systems, including engine, electrical, hydraulic, and fuel systems				
4) Operated appropriate onboard aircraft fire protection systems				
5) If the aircrafts fire protection system fails to completely extinguish the fire, operate hatches, cargo doors, or engine cowlings to fully extinguish the fire				
6) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

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

Examiner/Candidate Comments:

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Response – Skill 3 Responding to Incidents

NFPA 1003, 2019 edition, 4.2.1

OBJECTIVE

Respond to day and/or night incidents or accidents on and/or 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. **(4.2.1)**

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'S NOTE

Examinees must drive a response vehicle as part of the examination process.

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 the AHJ and included in the instructions above.

PREPARATION & EQUIPMENT

Airport map with grid markings

A given scenario

Response vehicle

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

Performance Standards Evaluation

**Response – Skill 53
Responding to Incidents**

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 3				
Respond to day and/or night incidents or accidents on and/or 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. (4.2.1)				
The candidate:	S	U	S	U
1) Found the location given on airport grid map				
2) Properly identified route to be taken				
3) Drove response vehicle safely and proficiently				
4) Identified any hazards on route taken				
5) Correctly identified the water distribution system location(s) on the airport grid map				
6) Identified airport markings affecting the response				
7) Identified airport lighting affecting the response				
8) Completed all steps within the allotted time				
9) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

Examiner/Candidate Comments:

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 Evaluation

Response – Skill 4 Communications – Size Up

NFPA 1003, 2019 edition, 4.2.2

OBJECTIVE

Communicate critical incident information regarding an incident on or adjacent to an airport, given an assignment involving an incident and an incident management system (IMS) protocol, so that the information provided is accurate for the incident commander. (4.2.2)

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'S 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 (Actual or simulated AEP)
Communication equipment and procedure
Fire attack procedures
An incident scenario

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

Performance Standards Evaluation

**Response – Skill 4
Communications – Size Up**

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 4				
Communicate critical incident information regarding an incident on or adjacent to an airport, given an assignment involving an incident and an incident management system (IMS) protocol, so that the information provided is accurate for the incident commander. (4.2.2)				
The candidate:	S	U	S	U
1) Operated communication devices correctly				
2) Communicated an accurate brief initial report, size-up and situation report				
3) Implemented the IMS according to airport emergency plan				
4) Identified aircraft types				
5) Correctly utilized the IMS				
6) Used proper radio etiquette				
7) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Examiner/Candidate Comments:

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Response – Skill 5

Communicate with Air Traffic Control (ATC)

NFPA 1003, 2019 edition, 4.2.3

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. (4.2.3)

INSTRUCTIONS - procedures for achieving the objective

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

EXAMINER'S 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 scenario

Other items as determined by the examiner

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

Performance Standards Evaluation

Response – Skill 5

Communicate with Air Traffic Control (ATC)

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 5	S	U	S	U
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. (4.2.3)				
The candidate:	S	U	S	U
1) Identified starting point, intended destination, and intended path of travel				
2) Confirmed clearance with ATCT (radio or tower light signals)				
3) Identified unit calling and requested emergency clearance to travel on the aircraft operations area (AOA)				
4) Correctly used aviation radio terminology				
5) Correctly used phonetic alphabet				
6) Used proper radio etiquette				
7) Operated communication devices correctly				
8) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

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

Examiner/Candidate Comments:

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Response – Skill 6

Communications – Standby

NFPA 1003, 2019 edition, 4.2.4

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. (4.2.4)

INSTRUCTIONS - procedures for achieving the objective

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

EXAMINER'S NOTE

NFPA 1002 A.4.2.4 Hazardous conditions include foreign object debris (FOD), special fuels, fueling operations (grounding and bonding), welding operations, hazardous materials operations, corrosion control, fuel-cell maintenance, and military operations.

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 response scenario

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

Performance Standards Evaluation

Response – Skill 6
Communications – Standby

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 6				
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. (4.2.4)				
The candidate:	S	U	S	U
1) Reviewed given assignment				
2) Evaluated scenario for hazardous conditions				
3) Addressed each hazardous condition separately				
4) Resolved each hazardous condition according to policies and procedures				
5) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

Examiner/Candidate Comments:

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

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 Evaluation

Suppression – Skill 7

Operate Fire Streams, Apply Agent

NFPA 1003, 2019 edition, 4.3.1

OBJECTIVE

Extinguish an aircraft fuel spill fire, given approved PPE, an assignment, agent application procedures, a fire fighting vehicle hand line flowing a minimum of 95 gpm (359 L/min) of approved foam extinguishing agent, and a fire sized to the flow rate used, so that the agent is applied using the prescribed techniques and the fire is extinguished as required by the AHJ. (4.3.1)

INSTRUCTIONS - procedures for achieving the objective

You shall, as a member of a team and utilizing PPE, operate fire streams and apply approved foam extinguishing agent using the prescribed techniques, extinguish/control the fire in _____ seconds.* Do you understand these instructions?

EXAMINER'S 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 prior to beginning the exercise and should be appropriate for the size of the fire, but escape/evacuation areas shall be established and maintained within one minute or less due to burn through time for the aluminum skin.

PREPARATION & EQUIPMENT

PPE

Fire fighting vehicle equipped with a 95-gpm minimum hand line

Approved foam extinguishing agent

Tank/contained area to recreate aircraft fuel spill

An incident scenario

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

Performance Standards Evaluation

**Suppression – Skill 7
Operate Fire Streams, Apply Agent**

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	TEST		RETEST	
	S	U	S	U
Skill 7				
Extinguish an aircraft fuel spill fire, given approved PPE, an assignment, agent application procedures, a fire fighting vehicle hand line flowing a minimum of 95 gpm (359 L/min) of approved foam extinguishing agent, and a fire sized to the flow rate used, so that the agent is applied using the prescribed techniques and the fire is extinguished as required by the AHJ. (4.3.1)				
The candidate:	S	U	S	U
1) Approached fire from an upwind position				
2) Maintained team integrity for duration of skill				
3) Charged hand line and adjusted nozzle pressure to produce effective pattern				
4) Used techniques applied with consideration to fire behavior of aircraft fuels, pooling of fuel fires, physical properties, and characteristics of aircraft fuel				
5) Avoided splashing or churning fuel with agent stream, and applied agent with a sweeping motion and avoid walking through the foam blanket				
6) Extinguished/controlled the fire within the established time limit and monitored the area for re-ignition.				
7) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

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

Examiner/Candidate Comments:

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Suppression – Skill #8 ARFF Vehicle Turret Fire

NFPA 1003, 2019 edition, 4.3.2

OBJECTIVE

Extinguish an aircraft fuel spill fire, given an assignment, approved PPE, an ARFF vehicle turret flowing the approved minimum required flow, a fire sized to the approved flow rate used, and the procedures for agent application, so that the agent is applied according to procedures and the fire is extinguished as required by the AHJ. (4.3.2)

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 _____ seconds.* Do you understand these instructions?

EXAMINER'S 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 prior to beginning the exercise and should be appropriate for the size of the fire, but escape/evacuation areas shall be established and maintained within one minute or less due to burn through time for the aluminum skin.

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

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

Performance Standards Evaluation

**Suppression – Skill #8
ARFF Vehicle Turret Fire**

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 8				
Extinguish an aircraft fuel spill fire, given an assignment, approved PPE, an ARFF vehicle turret flowing the approved minimum required flow, a fire sized to the approved flow rate used, and the procedures for agent application, so that the agent is applied according to procedures and the fire is extinguished as required by the AHJ. (4.3.2)				
The candidate:	S	U	S	U
1) Engaged the ARFF vehicle fire fighting systems				
2) Approached and applied agent from an upwind position				
3) Selected and operated the appropriate turret(s)				
4) Modulated ARFF vehicle around the fire area, while applying agent in sweeping motion, pushing the fire away from the aircraft fuselage				
5) Avoided driving through foam blanket				
6) Performed assigned operation in compliance with airport policies and procedures				
7) Extinguished the fire within the established time limit				
8) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

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

Examiner/Candidate Comments:

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Suppression – Skill 9 Three-Dimensional Fire

NFPA 1003, 2019 edition, 4.3.3

OBJECTIVE

Extinguish a three-dimensional aircraft fuel fire as a member of a team, given a team, approved PPE, an assignment, fire-fighting 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. (4.3.3)

INSTRUCTIONS - procedures for achieving the objective

Working as a member of a team, utilizing PPE and a fire-fighting 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'S 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, Halotron®, water)

Fire-fighting 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

An incident scenario

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

Performance Standards Evaluation

**Suppression – Skill 9
Three-Dimensional Fire**

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 9				
Extinguish a three-dimensional aircraft fuel fire as a member of a team, given a team, approved PPE, an assignment, fire-fighting 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. (4.3.3)				
The candidate:	S	U	S	U
1) Maintained team integrity for duration of skill				
2) Approached fire from upwind position				
3) Applied agents with consideration to fire behavior of aircraft fuels in three-dimensional state using proper techniques				
4) Avoided splashing or churning of pooled fuel with agent streams, and avoided walking through applied agent(s)				
5) Secured fuel source				
6) Monitored area for re-ignition				
7) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

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

Examiner/Candidate Comments:

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Suppression – Skill 10 Interior Aircraft Fire

NFPA 1003, 2019 edition, 4.3.4

OBJECTIVE

Attack a fire on the interior of an aircraft while operating as a member of a team, given a team, approved PPE, an assignment, a fire-fighting 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. (4.3.4)

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, a fire-fighting 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'S NOTE

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

PREPARATION & EQUIPMENT

PPE

Fire-fighting vehicle

Handlines

Ladder

Aircraft Firefighting Simulator (interior)

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

Performance Standards Evaluation

Suppression – Skill 10
Interior Aircraft Fire

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 10				
Attack a fire on the interior of an aircraft while operating as a member of a team, given a team, approved PPE, an assignment, a fire-fighting 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. (4.3.4)				
The candidate:	S	U	S	U
1) Maintained team integrity for duration of skill scenario				
2) Gained access to aircraft interior				
3) Opened, closed, and adjusted nozzle flow and patterns				
4) Applied agent using direct, indirect, and combination attacks				
5) Advanced charged and uncharged hose lines up ladders and up and down interior and exterior stairways				
6) Located and suppressed interior fires				
7) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

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

Examiner/Candidate Comments:

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Suppression – Skill 11

Engine or Auxiliary Power Unit (EPU/APU) Fire

NFPA 1003, 2019 edition, 4.3.5

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 approved PPE, an assignment, fire-fighting 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. (4.3.5)

INSTRUCTIONS - procedures for achieving the objective

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

EXAMINER'S 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

APU/EPU Prop

Fire-fighting vehicle with turret

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

An incident scenario

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

Performance Standards Evaluation

Suppression – Skill 11

Engine or Auxiliary Power Unit (EPU/APU) Fire

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 11				
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 approved PPE, an assignment, fire-fighting 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. (4.3.5)				
The candidate:	S	U	S	U
1) Set up attack from a safe distance				
2) Selected proper agent				
3) Engaged extinguishing system and handline				
4) Approached fire in accordance with safety procedures (i.e. upwind position, rear or front of wheel assembly)				
5) Gained access to aircraft engine and APU/EPU				
6) Selected and operated the appropriate turret(s)/handline				
7) Shut down engine and/or APU/EPU				
8) Managed agent supply with accurate/effective stream placement				
9) Applied agent in a sweeping motion and avoided walking/driving through foam blanket				
10) Performed skill in a safe and proficient manner				

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

Performance Standards Evaluation

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

Examiner/Candidate Comments:

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Suppression – Skill 12 Wheel Fire

NFPA 1003, 2019 edition, 4.3.6

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. (4.3.6)

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'S NOTE

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

PREPARATION & EQUIPMENT

Fire-fighting (ARFF/structure) vehicle

PPE

SCBA

Wheel assembly fire

Hand line

Various training agents (AFFF, dry chemical, Halotron®, water)

Other items as determined by the examiner

An incident scenario

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

Performance Standards Evaluation

**Suppression – Skill 12
Wheel Fire**

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	TEST		RETEST	
Skill 12	S	U	S	U
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. (4.3.6)				
The candidate:	S	U	S	U
1) Was aware of fusible plug problems				
2) Set up the attack from a safe distance				
3) Selected proper agent				
4) Engaged extinguishing system and vehicle handline				
5) Approached fire in accordance with safety procedures (i.e. upwind position, rear or front of wheel assembly)				
6) Adjusted nozzle to produce an effective pattern				
7) Directed agent at the base of the fire				
8) Monitored area for re-ignition				
9) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

Examiner/Candidate Comments:

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

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Suppression – Skill 13

Ventilate an Aircraft

NFPA 1003, 2019 edition, 4.3.7

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. (4.3.7)

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'S 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

Forcible entry tools

A ventilation scenario

Ground ladder

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

Performance Standards Evaluation

**Suppression – Skill 13
Ventilate an Aircraft**

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	TEST		RETEST	
	S	U	S	U
Skill 13				
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. (4.3.7)				
The candidate:	S	U	S	U
1) Chose correct aircraft access point				
2) Safely operated aircraft door, hatch and forcible entry tools				
3) Removed obstructions or barriers to ventilation process				
4) Set up and operated mechanical ventilation device at opening provided				
5) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

Examiner/Candidate Comments:

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

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Suppression – Skill 14 Replenish Extinguishing Agents

NFPA 1003, 2019 edition, 4.3.8

OBJECTIVE

Replenish extinguishing agents while operating as a member of a team, given an assignment, a fire-fighting 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 fire-fighting vehicle within the time established by the authority having jurisdiction (AHJ). (4.3.8)

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'S NOTE

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

PREPARATION & EQUIPMENT

Extinguishing agents for replenishment
SDS for each agent
PPE per SDS requirements
Fire-fighting vehicle
An incident scenario

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

Performance Standards Evaluation

**Suppression – Skill 14
Replenish Extinguishing Agents**

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 14				
Replenish extinguishing agents while operating as a member of a team, given an assignment, a fire-fighting 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 fire-fighting vehicle within the time established by the authority having jurisdiction (AHJ). (4.3.8)				
The candidate:	S	U	S	U
1) Used approved PPE				
2) Connected hose line to water supply				
3) Operated water supply and valves to fill water tank while preventing water hammer				
4) Filled foam tank with proper amount and type				
5) Returned vehicle to service				
6) Completed skill within the time established by the AHJ				
7) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

Examiner/Candidate Comments:

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

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Suppression – Skill 15 Preserve Scene

NFPA 1003, 2019 edition, 4.3.9

OBJECTIVE

Preserve the aircraft accident scene, given an assignment and procedures, so that evidence is identified, protected, and reported according to procedures. (4.3.9)

INSTRUCTIONS - procedures for achieving the objective

Working as part of a team you will preserve the aircraft accident scene so that evidence is identified, protected, and reported according to procedures. Do you understand these instructions?

EXAMINER'S 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 (Actual or simulated AEP)
PPE and SCBA
Debris field or aircraft
An incident scenario
Scene preservation equipment (flags, flagging tape, cameras, etc.)

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

Performance Standards Evaluation

**Suppression – Skill 15
Preserve Scene**

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
Skill 15 – Preserve the Scene	S	U	S	U
Preserve the aircraft accident scene, given an assignment and procedures, so that evidence is identified, protected, and reported according to procedures. (4.3.9)				
The candidate:	S	U	S	U
1) Identified scene preservation methods				
2) Identified evidence identification procedures				
3) Identified evidence protection procedures				
4) Identified evidence reporting procedures				
5) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

Examiner/Candidate Comments:

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

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 Evaluation

Suppression – Skill 16 Overhaul

NFPA 1003, 2019 edition, 4.3.10

OBJECTIVE

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. (4.3.10)

INSTRUCTIONS - procedures for achieving the objective

Working as part of a team and using PPE, hand line(s), 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. Do you understand these instructions?

EXAMINER'S 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 (Actual or simulated AEP)
PPE and SCBA
Debris field or aircraft
Thermal imager (if available)
Charged hand line
Forcible entry tools
Heat source
An incident scenario
Property conservation equipment (tarps, salvage covers...etc.)

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

Performance Standards Evaluation

**Suppression – Skill 16
Overhaul**

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
Skill 16 – Overhaul	S	U	S	U
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. (4.3.10)				
The candidate:	S	U	S	U
1) Secured area and ensured overhaul did not disturb evidence				
2) Used property conservation equipment				
3) Used tools and equipment to detect and expose hidden fire				
4) Correctly extinguished fire				
5) Prevented re-ignition of fire				
6) Performed skill in a safe and proficient manner in full PPE and respiratory protection				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

Examiner/Candidate Comments:

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

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Rescue – Skill 17

Emergency Evacuation – Shut Down Systems

NFPA 1003, 2019 edition, 4.4.1

OBJECTIVE

Gain access into and out of an aircraft through normal entry points and emergency hatches, secure and shut down the aircraft, and assist in the evacuation process while operating as a member of a team, given approved PPE and an assignment, so that passenger evacuation and rescue can be accomplished. (4.4.1)

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 shut down the aircraft systems. Do you understand these instructions?

EXAMINER'S NOTE

NFPA 1002 A.4.4.1 Securing the aircraft can include chocking/pinning the landing gear, safety ejection/ballistic chute systems, canopies, and safety weapon systems. Shutting down the aircraft includes turning off engines/power units, electrical, and oxygen systems. Training and evaluation of these tasks can be accomplished using simulation on actual aircraft or mockups.

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

PREPARATION & EQUIPMENT

PPE

Aircraft or Simulator (interior)

Specialized ladder

High reach device (airstairs) (If available)

Charged hand line

Hydraulic or electric rescue tools

Pneumatic cutter (If available)

Pulling device

Power saws

Cutting tools

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

Performance Standards Evaluation

Rescue – Skill 17

Emergency Evacuation – Shut Down Systems

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 17	S	U	S	U
Gain access into and out of an aircraft through normal entry points and emergency hatches, secure and shut down the aircraft, and assist in the evacuation process while operating as a member of a team, given approved PPE and an assignment, so that passenger evacuation and rescue can be accomplished. (4.4.1)				
The candidate:	S	U	S	U
1) Assisted with evacuation and secured evacuation chutes				
2) Operated power saws and cutting tools				
3) Operated hydraulic or electric rescue tools				
4) Operated pneumatic devices (if available)				
5) Operated pulling devices				
6) Operated specialized ladders				
7) Operated high reach devices (if available)				
8) Safely secure aircraft				
9) Shut down aircraft systems				
10) Performed skill in a safe and proficient manner				

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

Examiner/Candidate Comments:

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Rescue – Skill 18

Disentangle Entrapped Victim

NFPA 1003, 2019 edition, 4.4.2

OBJECTIVE

Locate and disentangle an entrapped person from an aircraft as a member of a team, given approved PPE, a team, an assignment, and rescue tools, so that the person is freed from entrapment without undue further injury and hazards are managed. (4.4.2)

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'S 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 or equivalent

Charged hand line

Powered forcible entry tools

Rescue mannequin

An incident scenario

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

Performance Standards Evaluation

Rescue – Skill 18
Disentangle Entrapped Victim

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Skill 18				
Locate and disentangle an entrapped person from an aircraft as a member of a team, given approved PPE, a team, an assignment, and rescue tools, so that the person is freed from entrapment without undue further injury and hazards are managed. (4.4.2)				
The candidate:	S	U	S	U
1) Correctly performed search procedures				
2) Controlled any hazards				
3) Safely removed victim				
4) Correctly and safely operated rescue tools				
5) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

Examiner/Candidate Comments:

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

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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TEXAS COMMISSION ON FIRE PROTECTION BASIC AIRCRAFT RESCUE FIRE FIGHTING

Performance Standards Evaluation

Rescue – Skill 19

Triage

NFPA 1003, 2019 edition, 4.4.3

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. (4.4.3)

INSTRUCTIONS - procedures for achieving the objective

Working in approved 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'S NOTE

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

PREPARATION & EQUIPMENT

Approved PPE

Triage tags (color-coded)

Simulated victims

A triage scenario

AHJ triage protocol

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

Performance Standards Evaluation

Rescue – Skill 19

Triage

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

ARFF	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Response – Skill 19	S	U	S	U
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. (4.4.3)				
The candidate:	S	U	S	U
1) Sized-up scene, ensuring scene was safe				
2) Set up triage areas for each category				
3) Used approved PPE				
4) Assessed the critical factors of patient condition				
5) Tagged patient for triage category				
6) Directed movement of patients to triage category area				
7) Performed skill in a safe and proficient manner				

S = Satisfactorily completed/performed

U = Unsatisfactorily performed/failed to meet objective or grading step

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

Examiner/Candidate Comments:

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

Certifying Examiner

Date

Overall Skill Sheet Score

Pass Fail

Re-Test Certifying Examiner

Date

Overall Skill Sheet Re-Test Score

Pass Fail

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