

**Attention: All certification candidates are required to have an established and up to date user portal account in the PA State Fire Academy's Acadis Learning Management System prior to participating in <u>ANY</u> certification testing opportunity. Please log in to your Acadis portal account and update all personal information before submitting your certification application. (Access can be gained through the OSFC website – <u>Training</u> and Certification Portal).

Airport Fire Fighter Skill Stations

NFPA 1003 - Chapter 4 (2019 Edition)

Station A	Grid Map Exercise	Mandatory Station
Station B	Communications	Random Station
Station C	Handline Operations	Mandatory Station
Station D	Turret Operation	Mandatory Station
Station E	Wheel Brake Fire	Mandatory Station
Station F	Engine Fire	Random Station
Station G	Interior Fire	Mandatory Station
Station H	Re-Supply	Random Station
Station I	Triage	Random Station
Station J	Evidence Preservation	Random Station
Station K	Military Aircraft Familiarity	Random Station
Station L	Three-Dimensional (3-D) Fuel Fire	Random Station
Station M	Incident Size-up & Report	Random Station
Station N	Patient Rescue	Random Station



STATION A – Grid Map Exercise		Reference NFPA 1003 (2019 Edition) Chapter 4 Mandatory Station JPR 4.2.1		
Test Site	Test Date	Candidate # Check Test Type		
			Initial Retest	

Evaluator Note: Grid maps/overlays, compass, and scenario/question sheet are needed for this station.

Directions: Using the material provided, answer the questions posed to you by the evaluator. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **9 of 9** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Identifies the grid lines and can orientate the map		
2	Demonstrates ability to plot a point on the map		
3	Given a set of grid coordinates, correctly plots a geographic location		
4	Given a geographic landmark (e.g., an intersection, peak, structure, etc.), correctly plots the applicable grid coordinates		
5	Given an accurate description of topography, nearby facilities, roads, and other physical features in the immediate vicinity, correctly plots the geographic location		
6	Given an incident location by grid coordinates, plots a safe and efficient route to the scene		
7	Given an overlay, demonstrates the ability to refine gird locations and identifies controlled access points		
8	Identifies the water distribution system, airport markings, and lighting system encountered		
9	Completes all tasks without compromising personal safety		
	Please indicate skill outcome	PASS	FAIL
Ev	aluator Comments:		

Evaluator Comments:		
Evaluator Signature:	Evaluator #	



Candidate Scenario Sheet

Station A – Grid Map Exercise

Rea	ad the information below to the candidate:
	ere is a report of an aircraft accident on runway The report states a smoke plume is ning from the vicinity of the
1.	Identifies the location on the grid map.
	Indicates possible access routes using the overlays and identifies water distribution system/access points, airport markings, and lighting systems encountered on the possible routes.
3.	Determine the best route for responding apparatus/equipment: a. On airport equipment b. Off airport equipment
4.	Determine a staging location and entry and exit points for responding apparatus/equipment: a. Fire apparatus b. EMS units
	Vehicles responding from report they are in grid at staging area "A". Where are these vehicles located on the airport?



STATION B – Communications		Reference NFPA 1003 (2019 Edition) Chapter 4 Random Station JPRs 4.2.3, 4.2.2		
Test Site	Test Date	Candidate # Check Test Type		
			Initial Retest	

Directions: Given an incident location on an active runway, and using the communications equipment (i.e., radio) supplied, request the necessary clearances for your unit to respond from the station to the incident site via the nearest taxiway. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **5 of 7** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Identifies a route to be taken		
2	Uses proper ground control radio terminology and procedures		
3	Requests proper clearances for the route selected (Mandatory to Pass)		
4	Acknowledges instructions received by doing read backs		
5	Follows the directions exactly as given		
6	Stops at appropriate markings or signs		
7	Completes all tasks in a clear and professional manner		
•	Please indicate skill outcome	PASS	FAIL

Evaluator Comments:		
Evaluator Signature:	Evaluator #	



STATION C – Handline Operations		Reference NFPA 1003 (2019 Edition) Chapter 4 Mandatory Station JPRs 4.3.1, 4.1.1, 4.2.4		
Test Site	Test Date	Candidate # Check Test Type		
			Initial Retest	

Directions: As a member of a team using the ARFF vehicle handline and appropriate agent, control and extinguish an aircraft fuel spill fire. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **11 of 13** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Properly dons and wears full PPE		
2	Properly deploys the handline from the reel or other stowage		
3	Attacks from upwind and upgrade (if feasible)		
4	Demonstrates the proper agent application technique (Mandatory to PASS)		
5	Adjusts the nozzle pattern appropriately in response to changing conditions		
6	Establishes and maintains initial rescue / egress path		
7	Attempts to sweep fire away from and cool exposures		
8	Continues to advance as the fire is knocked down		
9	Avoids "plunging" the stream directly into the ground		
10	Demonstrates proper line handling techniques in the back-up position		
11	Verbalizes / re-applies the agent to maintain foam blanket as needed		
12	Team safely extinguishes the fire in 90 seconds		
13	Monitors for potential re-ignition and initiates corrective action to assure non-reignition until the hazard is eliminated		
14	Completes all tasks without compromising personal or team safety		
	Please indicate skill outcome	PASS	FAII
Eva	aluator Comments:		

Evaluator Signature:	 Evaluator #



STATION D – Turret Operation		Reference NFPA 1003 (2019 Edition) Chapter 4 Mandatory Station JPRs 4.3.2, 4.1.1, 4.3.5		
Test Site	Test Date	Candidate # Check Test Type		
			Initial Retest	

Directions: Using the turret on this ARFF vehicle and appropriate agent, control and extinguish the aircraft fuel spill presented. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **10 of 12** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Properly dons and uses appropriate PPE [NOTE: For this skill, the proximity hood, SCBA, and gloves may be omitted.]		
2	Identifies the fuel involved and select / verbalizes the agent type required		
3	Directs driver to properly position the vehicle		
4	Attacks from upwind and up-grade (where feasible)		
5	Demonstrates proper agent application technique (Mandatory to PASS)		
6	Secures and maintains initial rescue / egress path		
7	Sweeps fire away from and cools the fuselage and other exposures		
8	Minimizes agent waste		
9	Avoids "plunging" the stream directly into the ground		
10	Safely extinguishes the fire in 90 seconds		
11	Verbalizes / reapplies agent to maintain a foam blanket as needed		
12	Completes all tasks without compromising personal or team safety (Operates all vehicle equipment (i.e., deluge, under truck nozzles)safely		
	Please indicate skill outcome	PASS	FAIL
Ev	aluator Comments:		

Evaluator Comments.		
Evaluator Signature:	Evaluator #	



STATION E - Wheel Brake Fire		Reference NFPA 1003 (2019 Edition) Chapter 4 Mandatory Station JPRs 4.3.6, 4.1.1		
Test Site	Test Date	Candidate #	Check the Test Type	
			Initial Retest	

Directions: As a member of a team using the ARFF vehicle handline and appropriate agents, control and extinguish a wheel brake fire involving the wheel assembly and leaking combustible fluids. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **12 of 14** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Properly dons and uses full PPE		
2	Selects / verbalizes the proper agent for the fuel(s) involved		
3	3 Directs driver to properly position the vehicle		
4	Attempts to establish visual or verbal contact with aircrew		
5	Makes a safe approach to the wheel assembly to avoid fragmentation hazard		
6	Avoids other hazard areas (e.g., prop, turbine intake/exhaust, prop/jet wash area, radomes, etc.)		
7	Attacks from upwind and up-grade (if feasible)		
8	Demonstrates appropriate agent application technique(s) (Mandatory to PASS)		
9	Sweeps fire away from and cools exposures		
10	Manipulates the stream to avoid wasting agent		
11	Avoids "plunging" the stream directly into the ground		
12	12 Properly handles hose line when functioning as the back-up firefighter		
13	assembly		
14	14 Completes all tasks without compromising personal or team safety		
	Please indicate skill outcome	PASS	FAIL

Evaluator Comments:		
		
Evaluator Signature :	Evaluator #	



STATION F – Engine Fire		Reference NFPA 1003 (2019 Edition) Chapter 4 Random Station JPRs 4.3.5, 4.1.1		
Test Site	Test Date	Candidate #	Check Test Type	
			Initial Retest	

Directions: Working as a team and using the ARFF vehicle handline and supplied agents, control and extinguish an aircraft engine fire. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **13 of 17** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Properly dons and uses full PPE		
2	Identifies the engine and fuel type involved and selects / verbalizes the proper agent		
3			
4	Attacks from upwind and upgrade (if feasible)		
5	Detects the outward warning signs of the precise nature of the fire (e.g., nacelle, cone, etc.)		_
6	Attempts to contact the flight crew		
7	Confirms the engine is shut down		
8	Initiates or prepares for aircraft evacuation if fire conditions warrant		
9	Deploys the handline properly from a reel or other stowage		
10	Maintains protection of egress and exit doors		
11	Attempts to sweep the fire away from and cool exposures		
12	Maintains safe distances and clearances from hazardous areas		
	(e.g., prop, turbine intake/exhaust, prop/jet wash area, radomes)		<u> </u>
13	Handles the hose line properly in the "back-up" position		
14	Opens cowlings and panels, as necessary, for extinguishment		
15	Demonstrates appropriate agent application techniques (Mandatory to PASS)		
16	Verbalizes / re-applies agent to cool area as necessary		
17	Completes all tasks without compromising personal or team safety		
	Please indicate skill outcome	PASS	FAIL

Evaluator Comments:	
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Evaluator Signature: Evaluator #	



STATION G – Interior Fire		Reference NFPA 1003 (2019 Edition) Chapter 4 Mandatory Station JPRs 4.3.4, 4.3.7, 4.3.10, 4.1.1		
Test Site	Test Date	Candidate #	Check Test Type	
			Initial Retest	

Directions: As a member of a team or the back-up team, using the ARFF vehicle handline and appropriate agents, control and extinguish an aircraft interior fire. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **13 of 17** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

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No.	Tasks	Yes	No
1	Properly dons and uses full PPE		
2	Directs driver to properly position the vehicle		
3	Identifies fuel type involved and selects / verbalizes proper agent to use		
4	Takes wind direction and probable fire location into account in choosing entry point		
5	Gains access to the aircraft interior at the selected entry point		
6	Conducts the emergency shutdown procedures (i.e., throttle idle, discharge fire extinguishing system, shut off batteries) Shutdown MUST be done in this order.		<u> </u>
7	Effectively protects internal and (if present) external exposures		
8	Maintains safe distances and clearances from hazard areas (e.g., prop, turbine intake/exhaust, prop/jet wash area, radomes)		1
9	Advances hose line(s)on interior or exterior stairways or ladders		
10	Demonstrates effective nozzle manipulation (Mandatory to PASS)		
11	Team evaluates and indicates the fire is extinguished		
12	Establishes egress path(s) and protects exit points (Mandatory to PASS)		
13	Performs initial ventilation, and considers heat transfer methods and removes any barriers		
13	using existing aircraft opening or mechanical ventilation devices		
14	Conducts a primary search of the aircraft during initial attack and locates "victims"		
	On Evaluator Command, the Team Retreats to a Safe Location and the Back-up Team Makes Entry		
15	Back-up team evaluates for indications of hidden fires		
16	Detects any hidden fires and performs an effective overhaul operation of fire area		
17	Completes all tasks without compromising personal or team safety		
	Please indicate skill outcome	PASS	FAIL
Ev	aluator Comments:		



STATION H – Re-Supply		Reference NFPA 1003 (2019 Edition) Chapter 4 Random Station JPR 4.3.8		
Test Site	Test Date	Candidate #	Check the Test Type	
			Initial Retest	

Directions: Using the facilities and supplies available, replenish the ARFF vehicle's agent supply tank(s) so that the vehicle can quickly resume firefighting operations. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **8 of 11** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Properly dons and uses PPE [Note: SCBA and proximity hood are not required, however a fire helmet and eye protection MUST replace them.]		
2	Identifies / verbalizes the agent type needed (Mandatory to PASS)		
3	Directs the driver to properly position the vehicle		
4	Connects the hose line to the agent source		
5	Removes kinks from the hose line prior to charging the line		
6	Connects hose line to the vehicle at proper re-supply point		
7	Opens supply line		
8	Opens the vehicle intake and tank lid (if necessary)		
9	Closes supply line		
10	Configures supply line for easy access and re-supply		
11	Completes all tasks without compromising personal or team safety		
	Please indicate skill outcome	PASS	FAIL
Fv	aluator Comments:		
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Evaluator Signature	Evaluator #	



STATION I – Triage		Reference NFPA 1003 (2019 Edition) Chapter 4 Random Station JPR 4.4.3		
Test Site	Test Date Test Date		Check the Test Type	
			Initial Retest	

Directions: Using the supplies and equipment provided, assess the condition of patients found and triage them for treatment / transport. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **8 of 10** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Properly dons and uses full PPE		
2	Establishes an accessible, secure, and safe triage area		
3	Locates 100% of patients in accident area		
4	Correctly classifies patients by type and severity of injuries		
5	Directs ambulatory patients to a collection point		
6	6 Properly completes and attaches triage tags		
7	7 Minimizes disturbing evidence – only what is necessary to gain access to patient(s)		
8	8 Covers deceased victim remains		
9	9 Maintains accurate accountability of patients processed		
10	Completes all tasks without compromising personal or team safety		
	Please indicate skill outcome	PASS	FAIL

Evaluator Comments:		
Evaluator Signature:	Evaluator #	



STATION J – Evidence Preservation		Reference NFPA 1003 (2019 Edition) Chapter 4 Random Station JPR 4.3.9		
Test Site	Test Date	Candidate #	Check the Test Type	
			Initial Retest	

Directions: Preserve the scene of an aircraft accident so that evidence is not disturbed. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **7 of 9** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Properly dons and uses full PPE		
2	Identifies potential evidence		
3	Does not unnecessarily disturb evidence; marks or records location of moved evidence		
4	Marks areas where evidence is located		
5	Records evidence location and type		
6	Identifies flight data and cockpit voice recorders		
7	Covers unprotected equipment with salvage covers		
8	Notifies appropriate agencies of the locations of evidence		
9	Completes all tasks in a professional manner		
	Please indicate skill outcome	PASS	FAII
Eva	aluator Signature: Evaluator #		



STATION K – Military Aircraft Familiarity		Reference NFPA 1003 (2019 Edition) Chapter 4 Random Station JPRs 4.2.4, 4.4.1		
Test Site	Test Date	Candidate #	Check the Test Type Initial Retest	
			Illitiai Retest	

Evaluator Note: You will need to select and provide to the candidate the aircraft type. Two copies of *USAF Technical Order 00-105E-9* (1 for the candidate and 1 for the evaluator) along with the candidate question sheet are needed for this skill station.

Directions: An in-flight emergency occurred in a military aircraft inbound to your airfield. Using the reference provided, perform the tasks and answer the questions on the sheet provided to you, and verbalize your responses to the evaluator. You may use the reference to clarify or illustrate your answers. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **10 of 13** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Locates specific aircraft information in the USAF T.O. 00-105E-9		
2	Identifies / describes the propulsion system and fuel type		
3	Identifies / describes the fuel storage locations and quantities		
4	Identifies / describes possible locations of weapons and munitions stores		
5	Identifies / describes the locations of pyrotechnics or other HAZMATS		
6	Identifies / describes the aircrew numbers and locations		
7	Identifies / describes the passenger capacities and locations		
8	Identifies / describes normal and emergency means of ingress / egress		
9	Identifies / describes explosive actuated escape hatches or canopy jettison mechanisms and		
	trajectory / shrapnel areas to avoid		
10	Identifies / describes presence of ejection systems, ejection system activation mechanisms,		
10	aircrew / passenger restraints, and any seat securing procedures		
11	Identifies / describes the location of engine and battery shutdown controls		
12	Identifies / describes other hazards (i.e., radar/EMF, weapon lines of fire, external stores jettison		
	hazards, jet engine intake/exhaust, prop /rotor)		
13	Completes all tasks in a clear and professional manner		
	Please indicate skill outcome	PASS	FAIL

Evaluator Comments:		
Evaluator Signature:	Evaluator #	



STATION L – Three-Dimensional (3-D) Fuel Fire		Reference NFPA 1003 (2019 Edition) Chapter 4 Random Station JPRs 4.3.3, 4.2.4		
Test Site Test Date		Candidate #	Check Test Type	
			Initial Retest	

Directions: As a team member utilizing a handline, select the appropriate agent and/or agents, control and extinguish a three-dimensional (3-D) fuel fire. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **9 of 13** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Properly dons and uses full PPE		
2	Properly deploys handline from the reel or other stowage		
3	Attacks from upwind and upgrade (if feasible)		
4	Demonstrates the proper agent application technique (Mandatory to PASS)		
5	Adjusts the nozzle pattern appropriately in response to changing conditions		
6	Establishes and maintains an initial rescue / egress path		
7	Attempts to sweep the fire away from and cool exposures		
8	Continues to advance as the fire is knocked down		
9	Avoids plunging the water stream directly into the ground		
10	Demonstrates proper line handling technique in the back-up position		
11	Recognizes potential for re-ignition and initiates corrective action by re-applying agent to		
	maintain a foam blanket until the hazard(s) is eliminated		
12	Secures fuel source to eliminate re-ignition		
13	Completes all tasks without compromising personal or team safety		
	Please indicate skill outcome	PASS	FAIL
Eva	aluator Comments:		
Eva	aluator Signature: Evaluator #		



STATION M – Incident Size-up & Report		Reference NFPA 1003 (2019 Edition) Chapter 4 Random Station JPR 4.2.2		
Test Site	Test Date	Candidate #	Check the Test Type	
			Initial Retest	

Evaluator Note: Photo/visual simulation of an aircraft incident and a portable or mobile radio (radio need not be operational) are needed for this skill station.

Directions: You are the person in charge of the first response unit on the scene of an aircraft incident shown before you. Using the radio provided, demonstrate the procedures you would follow, state the information you would relay, and the instructions you would give to other responding units and your dispatch center. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **6 of 6** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Follows proper 2-way radio protocol		
2	Announces arrival on-scene		
3	Assumes command per ICS protocol		
4	Accurately relays the following information: Confirms (or corrects, as appropriate) accurate incident location as dispatched Identifies type of aircraft Identifies observable exterior conditions in a brief, precise format Describes observed status of occupants Gives a concise statement of the candidate's unit's immediate course of action Delivers brief, clear instructions or assignments to additional arriving units		
5	Delivers the report in a controlled, clear and understandable voice		
6	Completes all tasks in a clear and professional manner		
	Please indicate skill outcome	PASS	FAIL
	aluator Comments:		
Eva	aluator Signature: Evaluator #		



STATION N - Patient Rescue		Reference NFPA 1003 (2019 Edition) Chapter 4 Random Station JPRs 4.4.2, 4.4.1		
Test Site	Test Date	Candidate #	Check the Test Type	
			Initial Retest	

Directions: As a team member and given the equipment provided, access, disentangle, and safety remove from the immediate hazard area an entrapped patient. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **7 of 9** tasks being correctly performed and demonstrating a level of competency as referenced by the NFPA and FAA.

No.	Tasks	Yes	No
1	Properly dons and uses PPE		
2	Gains access to an entrapped patient		
3	Selects the appropriate equipment to perform extrication		
4	Utilizes equipment appropriately to disentangle the patient		
5	Appropriately packages patient for removal		
6	Extricates/removes patient from the hazard area (Mandatory to PASS)		
7	Minimizes disturbing evidence – only what is necessary to gain access to patient(s)		
8	Maintains accurate accountability of patients processed		
9	Completes all tasks without compromising personal or team safety		
	Please indicate skill outcome	PASS	FAIL

Evaluator Comments:		
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Evaluator Signature:	Evaluator #	