



Office of Training  
and Certification

# New Jersey Division of Fire Safety

## BASIC PRACTICAL SKILLS EXAMINATION REPORT

Skill sheet #

**ARFF  
12-1**

Certification title

**AIRPORT FIREFIGHTING & RESCUE 6<sup>TH</sup>  
EDITION**

### Applicant Information

Candidate name

DFS ID #

Course #

### Evaluation

**Standard:**  
NFPA 1002 2017 & 1003  
2019 Editions

**4.2.1**

Use a grid map to respond to the site of an aircraft  
incident/accident. *[NFPA® 1003, 4.2.1]*

### Instructor Directions

1. This activity can be performed individually or in small groups. If groups are used, divide students as necessary.
2. Direct students to the scenario provided in the Student Worksheet.
3. Explain to students that they are to plan the safest and most efficient response route to the incident site presented in the scenario. Remind students to consider hazards, obstacles, and the weight of the apparatus as they plan the route.
4. Answer any questions that the students may have regarding the scenario or the reading of grid maps.
5. When complete, have students share the response route they selected. Ask them to explain the reason for their choice and to identify any specific hazards, obstacles, or other considerations used to determine the route.

Number	Task Steps	First Test		Retest #1		Retest #2	
		Pass	Fail	Pass	Fail	Pass	Fail
1	Read the aircraft accident/incident scenario below.						
2	Using the grid map provided on the following page, plan the safest and most efficient response route to the site. As you plan your route, consider hazards, obstacles, and the weight of your apparatus.						

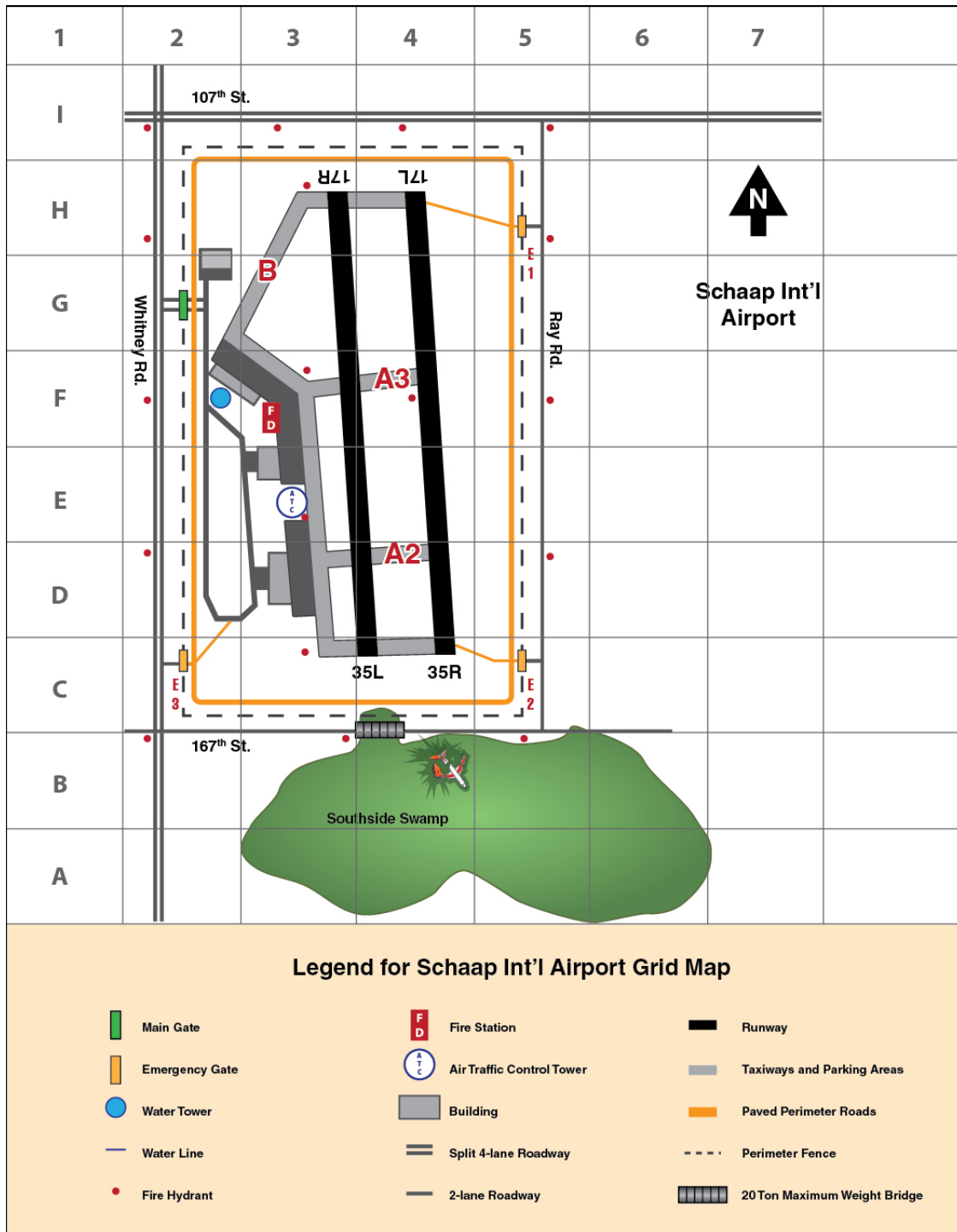
3							
4							
5							
6							
7							
<b>Final Test Result for Entire Task</b>							

## Scenario

Fog and heavy rain hit your area overnight, affecting visibility. You receive a report from Air Traffic Control at 6:00 a.m., reporting that a Cessna 414 has crash landed into a swampy area south of the airport. You and your ARFF team respond to the accident in your apparatus, which contains 1,500 gallon of water and 225 gallons of foam. Using the grid map, plot the best possible response route from your fire station to the site.

# Learning Activity 12-1

## Student Worksheet, cont.



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Form DFS-SS-1 10/12 Approved by NJ SME Committee on 4/01/2022



Office of Training  
and Certification

# New Jersey Division of Fire Safety

## BASIC PRACTICAL SKILLS EXAMINATION REPORT

Skill sheet #

**ARFF  
12-2**

Certification title

**AIRPORT FIREFIGHTING & RESCUE 6<sup>TH</sup>  
EDITION**

### Applicant Information

Candidate name

DFS ID #

Course #

### Evaluation

**Standard:**  
NFPA 1003, 2019 Edition

**4.2.3**

Obtain a clearance from ground control using phonetic alphabet and aviation terminology.  
*[NFPA® 1003, 4.2.3]*

### Instructor Directions

1. This activity can be performed individually or in small groups. If groups are used, divide students as necessary.
2. Direct students to the scenario provided in the Student Worksheet.
3. Explain to students that they will use the phonetic alphabet and aviation terminology to write a request to Air Traffic Control for clearance before crossing onto any runway or service road that simulates a radio conversation between ARFF personnel and Air Traffic Control.

**Note:** Refer students to the Information Boxes "International Civil Aviation Organization (ICAO) Phonetic Alphabet" and "Sample Vocabulary" on pp. 205-206 of Chapter 5.

4. Explain to the students that the request should take the form of a written dialogue between Crash-3 (C-3) and Air Traffic Control (ATC).
5. Answer any questions that the students may have regarding requests to ground control for clearance or the phonetic alphabet and airport terminology.
6. When students or groups finish, they should share and discuss their written request for clearance with the class.

Number

Task Steps

First Test

Retest #1

Retest #2

Pass

Fail

Pass

Fail

Pass

Fail

1							
2							
3							
4							
5							
6							
7							
Final Test Result for Entire Task							

## Directions

1. Read the scenario, which is a continuation of **Learning Activity 12-1**.
2. Using phonetic alphabet and aviation terminology, write a request to Air Traffic Control for clearance before crossing onto any runway or service road that simulates a radio conversation between ARFF personnel and Air Traffic Control.
3. The request should take the form of a written dialogue between Crash-3 (C-3) and Air Traffic Control (ATC).

**Note:** If needed, refer to the Information Boxes “International Civil Aviation Organization (ICAO) Phonetic Alphabet” and “Sample Vocabulary” on pp. 205-206 of Chapter 5.

## Scenario

Your ARFF apparatus, call sign C-3, is traveling from the Schaap International Airport Fire Department to an airplane crash site in the Southside Swamp. Your travels take you along the path shown on the map on p. 579 of Appendix B.

## Scenario

Fog and heavy rain hit your area overnight, affecting visibility. You receive a report from Air Traffic Control at 6:00 a.m., reporting that a Cessna 414 has crash landed into a swampy area south of the airport. You and your ARFF team respond to the accident in your apparatus, which contains 1,500 gallon of water and 225 gallons of foam. Using the grid map, plot the best possible response route from your fire station to the site.

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Form DFS-SS-1 10/12 Approved by NJ SME Committee on 4/01/2022





Office of Training  
and Certification

# New Jersey Division of Fire Safety

## BASIC PRACTICAL SKILLS EXAMINATION REPORT

Skill sheet #

**ARFF  
12-3**

Certification title

**AIRPORT FIREFIGHTING & RESCUE 6<sup>TH</sup>  
EDITION**

### Applicant Information

Candidate name

DFS ID #

Course #

### Evaluation

**Standard:**  
NFPA 1003, 2019 Edition

**4.2.2**

Communicate an accurate situation report about an aircraft incident/accident to an incident commander using incident management system (IMS) protocol. *[NFPA® 1003, 4.2.2]*

1. This activity can be performed individually or in small groups. If groups are used, divide students as necessary.
2. Direct students to the scenario provided in the Student Worksheet.
3. Explain to students they are to draft an accurate situation report for this scenario that includes vital information the Incident Commander would need to know in order to coordinate further response.
4. Answer any questions that the students may have about communicating accurate critical incident or accident information to the Incident Commander or using incident management system (IMS) protocols.
5. When individuals or groups are finished, have students present their situation report to the class or a small group of students.

Number	Task Steps	First Test		Retest #1		Retest #2	
		Pass	Fail	Pass	Fail	Pass	Fail
1							
2							
3							
4							
5							
6							

7							
Final Test Result for Entire Task							

**Directions**

- 1. Read the aircraft accident scenario below, which is a continuation of **Learning Activity 12-1 and 12-2**.
- 2. Based on the considerations in the scenario, draft an accurate situation report that includes vital information the Incident Commander would need to know in order to coordinate further response.

**Scenario**

At 6:10 a.m., you and a four-member ARFF team arrive at the site of a small aircraft downed just outside your airport in a swampy landscape of soft, wet terrain. Weather conditions are hot and humid. You immediately notice that one victim has self-evacuated from the accident and is walking along the perimeter of the swamp. The aircraft, a Cessna 414, is partially submerged in the water. Leaking fuel is immediately visible on the surface of the water. You notice that the aircraft has crash-landed into several trees. Overhanging branches are blocking access to the interior cabin. Although flames cannot be seen from the outside of the aircraft, plumes of smoke are rising from the engine. As you approach the aircraft, you note that one of the propellers is still rotating slowly.

**Learning Activity 12-2**  
**Student Worksheet, cont.**

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Office of Training  
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# New Jersey Division of Fire Safety

## BASIC PRACTICAL SKILLS EXAMINATION REPORT

Skill sheet #

**ARFF  
12-4**

Certification title

**AIRPORT FIREFIGHTING & RESCUE 6<sup>TH</sup>  
EDITION**

### Applicant Information

Candidate name

DFS ID #

Course #

### Evaluation

**Standard:**  
NFPA 1003, 2019 Edition

**4.2.4**

Recognize hazardous conditions at an aircraft incident/accident and initiate corrective action. *[NFPA® 1003, 4.2.4]*

1. This activity can be performed individually or in small groups. If groups are used, divide students as necessary.
2. Direct students to the scenario provided in the Student Worksheet.
3. Explain to students that they will be creating a list of hazardous conditions in the scenario and proposing corrective action or actions to mitigate the identified hazards.
4. Answer any questions that the students may have regarding the identification and mitigation of hazards.
5. When complete, have students share items from their list of hazardous conditions to compile a single class list on a whiteboard or large easel pad. Then ask individual students to explain their proposed corrective action or actions to mitigate each hazard.

Number	Task Steps	First Test		Retest #1		Retest #2	
		Pass	Fail	Pass	Fail	Pass	Fail
1							
2							
3							
4							
5							
6							
7							
Final Test Result for Entire Task							

## Directions

1. Read the aircraft accident scenario provided below, which is a continuation of **Learning Activity 12-1 through 12-3**.
2. Create a list of the various hazardous conditions included in the scenario.
3. Propose a corrective action or actions you would take to mitigate each of the hazards you've identified.

**Note:** If needed, refer to Chapter 4 "Safety and Aircraft Hazards" for further information on common hazardous conditions encountered at an aircraft incident/accident.

## Scenario

You respond to the site of a small aircraft downed just outside your airport in a swampy landscape of soft, wet terrain. Weather conditions are hot and humid. All responding ARFF firefighters are dressed in proper and full personal protective equipment. You notice that a large section of fuselage has detached from the aircraft and is blocking access to the interior cabin. You observe that the aircraft is partially submerged in the water of the swamp. Leaking fuel from the aircraft is visible on the surface of the water. Although flames cannot be seen from the outside of the aircraft, plumes of smoke are rising from the engine. As you approach the aircraft, you notice that the rotor is still rotating very slowly. As you enter the aircraft to engage in search and rescue of victims, you note broken hydraulic lines and leaking hydraulic fluid. Inside the confined space of the small aircraft, you observe that several flammable materials, such as carpet and paneling, are burning.

## Learning Activity 12-4 Student Worksheet, cont.

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 Office of Training and Certification	<b>New Jersey Division of Fire Safety</b> <b>BASIC PRACTICAL SKILLS EXAMINATION REPORT</b>						
	Skill sheet #  <b>ARFF 12-5</b>	Certification title  <b>AIRPORT FIREFIGHTING &amp; RESCUE 6<sup>TH</sup> EDITION</b>					
<b>Applicant Information</b>							
Candidate name				DFS ID #		Course #	
<b>Evaluation</b>							
<b>Standard:</b> NFPA 1003, 2019 Edition  <b>4.4.3</b>		Implement initial triage of the victims of an aircraft accident or incident. [NFPA® 1003, 4.4.3]					
Number	Task Steps	First Test		Retest #1		Retest #2	
		Pass	Fail	Pass	Fail	Pass	Fail
1							
Final Test Result for Entire Task							

## Directions

1. Read the scenario, followed by the individual victim descriptions. The scenario is a continuation of **Learning Activity 12-1 through 12-4**.
2. After assessing each victim's injury/injuries, classify the victim into the appropriate triage category: green is low priority or walking wounded, yellow is medium priority, and red is high priority. Victims who are clearly deceased should be marked with a black ribbon or tag.
3. Use the table provided to write down your decisions and be prepared to justify your classifications to the class.

**Note:** Refer to the Information Box "Simple Triage and Rapid Transport" on pp. 250-251 of Chapter 6 for further information on initial triage or utilize your AHJ's triage system.

## Scenario

You receive a report that a small aircraft has crash landed in a swamp near your airport. The flight was carrying five personnel, including the pilot. Upon arrival at the scene, you find the plane is flipped over. One wing is torn off, but the body of the

aircraft is mostly intact. You notice smoke and small flames emanating from the interior of the aircraft. After successfully extricating the victims from the wreckage using proper tools, and PPE, you must accurately assess and label victim conditions before moving them to the triage area.

### **Victim # 1**

Upon arrival, you find that the pilot has successfully managed to remove himself from the aircraft through the still-intact cockpit door. He is yelling for help, and is clearly in a state of heightened emotional distress. His breathing is somewhat labored. He reports some neck pain, but is alert and responsive.

### **Victim # 2**

The passenger is found in the middle of the aircraft in an area engulfed in smoke. Her pelvis and left femur appear to have been crushed by the force of impact. She is disoriented, but still conscious. Her breathing is rapid and shallow, her pulse is weak, and her skin is pale and clammy to the touch.

### **Victim # 3**

This passenger is recovered from the back of the aircraft near the origin of the fire. You immediately notice that his face, neck, and arms are covered with severe burns. He has also suffered blunt trauma to the head and is covered blood. He is unresponsive, and you cannot detect a pulse or respiration.

### **Victim # 4**

The passenger was able to crawl out of the aircraft with assistance from ARFF personnel. She is suffering from second degree burns on her arms and hands. She is wheezing due to mild smoke inhalation, but does not appear to have a great deal of difficulty breathing. She is able to communicate with personnel clearly and appears alert.

### **Victim # 5**

This passenger was discovered in the aisle of the aircraft, pinned underneath debris. He has lacerations on his legs and abdomen, but blood loss is minimal. However, he complains of excruciating pain in his abdominal area. You suspect he may be suffering from an internal injury.



Victim	Category	Justification
#1		
#2		
#3		
#4		
#5		

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Evaluator signature	Date	Evaluator signature	Date	Evaluator signature	Date
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