

## STATE OF SOUTH DAKOTA CLASS SPECIFICATION

**Class Title: Air Rescue Fire Fighter**

**Class Code: 60631**

**Pay Grade: GG**

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### **A. Purpose:**

Provides fire protection and emergency medical services for the South Dakota Air Guard Base, personnel, and aircraft as well as the Sioux Falls Regional Airport Authority, related businesses, and aviation services located at the airport to ensure the protection of life, environment, and property.

### **B. Distinguishing Feature:**

Air Rescue Fire Fighters provide fire protection, emergency medical services, and related services.

Senior Air Rescue Fire Fighters are crew chiefs during emergencies, act as a station commander, and are lead workers over Air Rescue Fire Fighters.

Air Rescue Fire Fighter Supervisors supervise fire fighters and plan, organize, manage, and direct fire department activities.

### **C. Functions:**

*(These are examples only; any one position may not include all of the listed examples nor do the listed examples include all functions which may be found in positions of this class.)*

1. Performs crash and fire rescue for military and commercial aircraft to provide for the safety of flight personnel, crews, passengers, and related equipment.
  - a. Extinguishes fires on all types of aircraft utilizing different types of suppressing agents based upon the type of plane and type of fuel and its location.
  - b. Operates a crash truck providing protection and ensures exit paths for pilots, passengers, and rescue crews.
  - c. Performs rescue on F-16's to extract pilots and secure the aircraft.
    - i. Pins fuel tanks, armaments systems, hydraulics, and the external power unit (EPU) on F-16's.
    - ii. Performs egress procedures according to TO105 E-9.
  - d. Learns and utilizes the knowledge of aircraft exit and entry points, shutdown procedures, and related hazards.
  - e. Rescues crews and passengers from commercial and private aircraft operating necessary rescue equipment.
  - f. Performs standbys during refueling activities for CON – AIR and other aircraft which are refueled hot and present a life safety hazard in the process.
2. Performs fire rescue for structural emergencies to respond to emergencies and ensure the safety of the building, its occupants, and its contents.
  - a. Maintains awareness with structural layout of all buildings, building construction, and associated hazards; and assists technical services with building inspections.
  - b. Operates crash and rescue trucks during emergency situations.
  - c. Assists in maintaining up-to-date pre-fire plans as delegated.
3. Performs emergency medical services for the Air Guard base and the airport to maintain life safety until other qualified medical personnel arrive.

- a. Responds to situations in military, commercial, or private aircraft.
  - b. Assesses the situation.
  - c. Applies necessary medical or trauma care.
  - d. Maintains required EMT certification.
  - e. Operates medical equipment.
  - f. Completes reports related to medical services provided.
4. Maintains fire apparatus and other associated equipment to ensure they/it is fully operational in case of an emergency.
    - a. Inspects crash trucks and support equipment to ensure operational readiness.
    - b. Checks communications equipment, fuel, fire suppressant agents, tools, location of F-16 pins, medical bags, compartments on the vehicle, and crash kits.
    - c. Maintains knowledge of the proper placement of vehicles for aircraft, structural, and barrier responses.
    - d. Tests and secures fire support equipment.
  5. Maintains ongoing and special assignments as an Emergency Medical Services Manager or assistant in testing hoses, technical services, in the care of computers, fire extinguisher maintenance, vehicle inventories, maps, testing pumps, self contained breathing apparatus (SCBA) maintenance, air compressor maintenance, Department of Defense response logs, cardio-vascular testing of all fire personnel, safety committee representative, maintenance of gym equipment, tools and equipment maintenance, commercial aircraft pre-fire plans, supply, ladder certification, and SCBA air-sample testing.
  6. Participates in barrier rewind operations to ensure the safety of aircraft and prepare the system for additional aircraft recoveries.
    - a. Operates barrier equipment.
    - b. Provides hand signals and direction to crew members while operating barrier recovery equipment.
  7. Participates in proficiency, career development courses, and physical fitness training to remain job ready.
    - a. Practices skills in various crash and rescue procedures.
    - b. Completes written tests to verify knowledge of fire and rescue procedures and for mandated DOD certification.
    - c. Discusses training activities with senior staff to ensure understanding of proper procedures.
    - d. Re-certifies annually with the self contained breathing apparatus (SCBA).
  8. Performs duties and supports the technical services manager for the Air Guard Base to ensure fire safety inspections are performed and maintained for buildings and equipment located in the facility.
    - a. Performs required acceptance inspections and testing after completion of major projects.
    - b. Attends monthly engineering meetings to discuss work orders and discuss fire safety needs for the base as directed by the technical services manager.
    - c. Oversees and helps support the fire extinguisher program.
    - d. Supports and briefs commanders and building managers annually of technical services programs and needs required for safe operations.
    - e. Supports and provides initial investigative services and recommends solutions for fire deficiencies.
    - f. Oversees building pre-fire plans and helps update plans as directed.
    - g. Plans and reviews new construction on the base as directed.

- h. Helps track man hours for Technical Services.
  - i. Plans and coordinates annual fire prevention programs with other community services as directed.
  - j. Completes or assists building managers in completing work orders to repair fire protection systems or building deficiencies or safety issues.
  - k. Tests and documents all fire sprinkler systems and fire detection systems on the base as directed.
  - l. Performs acceptance tests on fire detectors in buildings.
  - m. Discusses problems with building managers and fire protection systems with the Deputy Fire Chief and the Technical Services Manager.
9. Presents classes to other fire service personnel to provide proficiency training.
- a. Researches topics.
  - b. Prepares the presentation and associated visuals according to a basic lesson plan.
  - c. Makes the presentation.
10. Performs other work as assigned.

**D. Reporting Relationships:**

Reports to an Air Rescue Fire Fighter Supervisor and receives work direction from a Senior Air Rescue Fire Fighter.

**E. Challenges and Problems:**

Challenged to be prepared both physically and mentally for the wide variety of emergencies that they may encounter. This is difficult because it requires constant studying and continuing proficiency and physical training.

Typical problems include ensuring all testing, inspections, and documentation as delegated is completed in a timely manner; time restraints associated with training requirements and carrying out other assigned duties; being exposed to and having to work around hazardous materials; ingestion hazards associated with jet engines; working around munitions and armaments on aircraft; dealing with the dangers of fire, heat, and smoke; structural stability during fires; the risk of disease or infections while providing emergency medical care; and hazards associated with the operation of equipment and vehicles.

**F. Decision-making Authority:**

Decisions made include how to safely operate crash fire rescue vehicles, what emergency medical services to provide, on-the-spot decisions while carrying out crash or rescue activities, and how to carry out personal accountabilities.

Decisions referred include how to handle out-of-service equipment, if additional training for staff is needed, problems with vehicles, the purchase of supplies and equipment, scheduling, procedures, and policies.

**G. Contact with Others:**

Daily contact with base personnel, personnel at the Sioux Falls Fire Department training center, and airport authority personnel to give and receive information; periodically with vendors/manufacturers of equipment to discuss problems or enhancements; and as needed with

pilots, aircraft crews, passengers, and Air Base personnel to direct their activities during fire, crash, and rescue procedures.

#### **H. Working Conditions:**

These positions are exposed to extreme heat, heavy smoke, and hazardous atmospheres. Must perform heavy physical exertion while wearing approximately sixty-five pounds of personal protective equipment. Work in confined and cramped areas. Faces potential exposure to hydrazine, explosives, and munitions while working with F-16's. Is exposed to the potential hazard of ingestion by jet engines while carrying out crash and rescue procedures on aircraft.

#### **I. Knowledge, Skills, and Abilities:**

Knowledge of:

- industrial safety objectives;
- operation of structure or aircraft fire fighting equipment and vehicles and related fire fighting equipment;
- rescuing personnel in emergency situations;
- principles of structure and aircraft fire fighting techniques;
- crash and fire rescue procedures;
- emergency medical services.

Ability to:

- deal tactfully with others and maintain a positive and professional demeanor;
- maintain required certifications in emergency medical services, vehicle and equipment operation, and fire tactics;
- acquire and obtain DOD Fire Fighter Certification levels in accordance with DOD 6055.06M "DOD Fire and Emergency Services Certification Program;"
- use a computer and operate alarm room and communications center;
- react effectively in emergency situations;
- work in confined or cramped areas;
- follow hand signals and verbal directions;
- operate a self contained breathing apparatus (SCBA);
- lift and carry personnel from aircraft;
- operate related fire equipment and vehicles;
- work as a team;
- maintain positive communications;
- follow fire department Standard Operating Procedures (SOPs);
- identify and react to emergency situations in a safe and competent manner.

#### **J. Licensure and Certification:**

Must successfully complete and maintain required Department of Defense (DOD) mandatory certifications as referenced in DOD 6055.06M "DOD Fire and Emergency Services Certification Program."

No applicant may be appointed to one of these positions unless the following requirements are met (in accordance with standards established by the Air Force Regulations Handbook):

1. Normal color perception;
2. Possession of at least 20/100 uncorrected vision in each eye, corrected to 20/20 in one eye and 20/30 in the other eye;
3. No medical history of pyrophobia, acrophobia, or claustrophobia;

4. Security Clearance: ANGFWA Fire Fighters must obtain a favorable background investigation, and have an appropriate clearance to allow access to computer networks and restricted areas in the performance of their duties; and
5. Successfully pass physical testing and a medical examination.