

BASIC AIRPORT FIRE-FIGHTER COURSE

International Civil Aviation Organization (ICAO) Course Number:
111

Target Group:
Armed Forces and Aviation Rescue and Fire Fighters.

Fees:
US \$ 1140 for tuition and training materials only

Duration:
4 weeks

OBJECTIVES

To provide participants with the fundamentals of aircraft rescue and fire-fighting for both aircraft emergencies and building fires at airports through a series of classroom lectures, practical exercises and site visits. The course is designed to meet ICAO's competency requirement in aircraft rescue and fire-fighting.

OUTLINE

Module 1: Fire Hazards and Fire Safety Measure

- Introduction to Fire
- Chemistry of Combustion; Sidebar (1. Fireball, 2. Smouldering.)
- Aviation Fuels – Types, Behaviour, Hazards.
- Portable Hand Fire Appliance.
- Extinguishing Agents and their uses.
- Foam Making Liquids.
- Water Supplies at Airports.
- Temperature and Heat; Side Bar – 3. An Ancient View of Fire.
- Fire Safety at Work.
- Fire Prevention and Protection.
- Fuel Farm Fires.
- Hazardous Condition of Smoke in an Aircraft Fire.
- Man Made Mineral Fibres.
- Safety on the Fire Ground

Module 2: Tactical Procedures and Methods

- Airport Topography.
- Airport Emergency Information.
- Domestic Fires.
- Practical Firemanship.
- Aircraft Construction (Fixed Wings).
- Helicopters (Rotary Wings).
- Hot Wheels, Wheel Fires.
- Aircraft Engine Fire Fighting.
- Military Aircraft.
- Aircraft Internal Fires.
- Aircraft Fire Fighting – Tactics and Techniques.
- Aircraft Evacuation System.

- Rescue of passengers from Crashed Aircraft.
- Self Contained Breathing Apparatus

Module 3: Safety Gears, Rescue & Fire Fighting Exercises

- Pumps and Primers
- Small Gears
- Fire Service Ladders (Theory & Practical pitching ladders)
- Fire Fighting hose (Theory and Dutch roll practicals)
- Ropes and Knots
- Personal Protective Equipment
- Fire Terms, Rescue and Fire Fighting Equipment
- Movement of casualty in an Emergency (Theory & Practical)
- Tour of the Complex Building (Fire Engineering Features)
- Case studies (Films, video clips)
- Practical Use of Breathing Apparatus in a smoke chamber.
- Direct and Indirect Fire Attack (Theory & Practical)
- Airport Topography
- Hose running (Wet exercise)

ADMISSION REQUIREMENTS

- Be certified medically and physically fit
- Be proficient in the English language
- Have a minimum of KCSE C (stand) and above in secondary education or related qualifications.

CERTIFICATION

Participants must attend at least 90% of the training in order to be eligible for the theoretical and practical assessments. A certificate will be awarded to those who have passed both practical and theoretical assessment with an average pass mark of 50% and above.

Participants are required to bring along their official uniform, as well as track suits, t-shirts and running shoes for physical training.
