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Aircraft Safety Familiarization

21 – 25 March 2027
Cairo (Egypt)

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PARTNER



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Ref: 3255956_357062 **Date:** 21 – 25 March 2027 **Location:** Cairo (Egypt) **Fees:** 4900 GBP

Course Introduction

Aircraft safety is a fundamental responsibility shared by everyone who works in or around aviation operations. Safe performance depends not only on pilots and licensed engineers, but also on ground personnel, maintenance support teams, airport staff, supervisors, contractors, emergency responders, logistics teams, and other employees whose decisions and actions may affect aircraft, passengers, equipment, and operational continuity. A clear understanding of aircraft safety principles is therefore essential for building awareness, preventing avoidable incidents, and supporting a disciplined safety culture.

Modern aircraft operate through highly integrated systems, strict procedures, and carefully controlled environments. Even a minor mistake, such as entering a restricted area, mishandling equipment, ignoring a warning sign, or failing to report a hazard, can create serious consequences. Personnel must understand aircraft zones, common operational hazards, safe approach distances, engine and propeller risks, foreign object damage, communication requirements, and the correct response to abnormal situations.

The Aircraft Safety Familiarization course provides participants with a structured introduction to the essential safety concepts associated with aircraft operations. It explains how aircraft are organized, how major systems influence ground and operational safety, and why strict compliance with procedures is necessary. The course also develops awareness of hazards that may arise during aircraft movement, parking, servicing, loading, maintenance support, refueling, towing, and emergency response.

A key focus of the program is the prevention of incidents through hazard recognition and responsible behavior. Participants learn how to identify unsafe conditions, understand warning signs and markings, maintain situational awareness, communicate effectively, and apply basic risk controls. The course also examines the relationship between human factors, fatigue, distraction, communication failures, and operational errors.

Aircraft safety familiarization supports better coordination among departments and strengthens the consistency of safety practices. It helps organizations reduce equipment damage, personnel injuries, operational delays, and noncompliance with aviation requirements. By improving awareness and decision-making, the course contributes to safer aircraft handling and more reliable operational performance.

The program is relevant to personnel working in airlines, airports, maintenance organizations, military aviation, government aviation departments, aircraft service providers, ground handling companies, logistics organizations, emergency services, and aviation support operations. It is suitable for managers, supervisors, engineers, technicians, operational personnel, safety teams, contractors, and employees who require a practical understanding of aircraft-related hazards and safety responsibilities.



Course Objectives

By the end of this course, participants will be able to:

- Explain the importance of aircraft safety in aviation operations.
- Identify the main areas and external features of an aircraft.
- Understand basic aircraft systems relevant to operational safety.
- Recognize common hazards associated with aircraft movement and servicing.
- Apply safe practices when approaching or working around aircraft.
- Identify risks created by engines, propellers, rotors, and exhaust areas.
- Understand the causes and consequences of foreign object damage.
- Apply basic safety precautions during ground handling activities.
- Interpret common aircraft safety signs, markings, lights, and warning zones.
- Recognize the risks associated with fueling, electrical systems, and hazardous materials.
- Understand human factors that may contribute to aviation incidents.
- Improve communication and situational awareness in aircraft environments.
- Report hazards, incidents, and unsafe conditions correctly.
- Respond appropriately to aircraft emergencies and abnormal situations.
- Support organizational safety management and risk control practices.
- Develop practical actions for improving aircraft safety performance.

Course Modules

Day 1: Aircraft Safety Fundamentals

- Principles of aviation safety.
- Shared safety responsibilities.
- Aircraft types and classifications.
- Major external aircraft features.
- Basic aircraft terminology.
- Aircraft operating environments.
- Safety-critical aviation activities.
- Rules for accessing aircraft areas.
- Personal conduct around aircraft.
- Safety signs and warning markings.
- Operational discipline and compliance.
- Introduction to aviation risk management.



Day 2: Aircraft Systems and Operational Hazards

- Basic aircraft structural components.
- Flight control surface awareness.
- Landing gear and braking hazards.
- Aircraft electrical system risks.
- Hydraulic and pneumatic hazards.
- Fuel system safety awareness.
- Auxiliary power unit hazards.
- Engine intake and exhaust danger zones.
- Propeller and rotor safety.
- Static electricity and grounding.
- Pressurized system hazards.
- Hot surfaces and moving components.

Day 3: Ground Handling and Ramp Safety

- Safe aircraft approach procedures.
- Ramp and apron safety rules.
- Aircraft parking and chocking.
- Ground support equipment positioning.
- Vehicle movement around aircraft.
- Aircraft towing and pushback awareness.
- Loading and unloading hazards.
- Cargo and baggage safety.
- Passenger boarding area precautions.
- Refueling safety principles.
- Foreign object debris prevention.
- Adverse weather precautions.

Day 4: Human Factors, Communication, and Risk Control

- Human factors in aviation safety.
- Situational awareness.
- Fatigue and reduced alertness.
- Distraction and task interruption.
- Communication errors.
- Team coordination and handovers.
- Safety briefings and instructions.
- Hazard identification techniques.
- Basic risk assessment.
- Control measures and safety barriers.
- Incident and near-miss reporting.
- Building a positive safety culture.



Day 5: Emergency Awareness and Practical Application

- Aircraft emergency categories.
- Fire and smoke hazards.
- Fuel spill response awareness.
- Emergency shutdown considerations.
- Evacuation route awareness.
- Emergency communication procedures.
- Coordination with emergency services.
- Securing an aircraft incident area.
- Personal safety during emergencies.
- Analysis of aircraft safety incidents.
- Practical hazard identification exercise.
- Aircraft safety improvement action plan.

Why Should You Attend This Course?

- Build a clear understanding of aircraft-related safety hazards.
- Improve confidence when working in or around aircraft.
- Reduce the risk of injury and aircraft damage.
- Recognize dangerous zones before entering operational areas.
- Apply safer practices during ground handling and support activities.
- Improve awareness of engine, fuel, electrical, and equipment risks.
- Strengthen communication and coordination among aviation teams.
- Understand how human factors influence safety performance.
- Report hazards and unsafe conditions more effectively.
- Respond more appropriately to abnormal and emergency situations.
- Support compliance with organizational aviation safety procedures.
- Contribute to a stronger and more consistent safety culture.

Course Conclusion

Aircraft safety depends on knowledge, discipline, communication, and continuous awareness. Every individual working around an aircraft has a responsibility to understand potential hazards and follow established procedures, regardless of job title or level of technical involvement.

This course provides participants with a practical foundation in aircraft safety, including aircraft features, system-related hazards, ground handling precautions, human factors, risk controls, and emergency awareness. The knowledge gained enables participants to recognize unsafe conditions and make better decisions in operational environments.

Participants can apply the course outcomes by improving their approach to aircraft areas, following warning signs and safe distances, maintaining stronger situational awareness, reporting hazards, and supporting coordinated responses to abnormal events. These actions can reduce injuries, equipment damage, delays, and operational disruption.



In the long term, aircraft safety familiarization strengthens organizational reliability by creating a workforce that understands its responsibilities and recognizes the consequences of unsafe behavior. It supports safer operations, better risk management, and a culture in which safety remains an active part of every aviation-related task.

