

BOSTONAIR TECHNICAL TRAINING LTD

ONLINE AIRSIDE SAFETY TRAINING SYLLABUS

Introduction

Chapter 1 - The Airport Environment

1.1 Parts of the Airport

Landside vs Airside

Areas of Airside Environment

- The Apron
- Manoeuvring Areas
- Service Roads
- Movement Area

The Apron in Detail

The Ramp in Detail

Employee Responsibilities

Security Requirements

Terrorism Incidents

Access Control

Identification Cards

Escorted Areas

Means of Authorisation

1.2 Communication

Importance of Communication

Phonetic Alphabet

Aviation Time: GMT vs UTC

Zulu Time

1.3 Hand Signals

Types of Hand Signals

Limited View

Marshalling

Servicing Hand Signals

Wing Walkers

Pushback Procedures

Emergency Signals

Final Attention

1.4 Aircraft

Parts of the Aircraft

Classes of Aircraft

The Fuselage

The Hold

Unit Load Devices

Passenger Doors

Wings and Stabilisers

Auxiliary Surfaces: Flaps and Landing

Gear

Aircraft Fuelling

Fuel Safety Zones

Cone Placement

Foreign Object Debris

1.5 Ground Support Equipment

Types of GSE

Main Hazards

Ground Power Unit

Catering and Water Services

Baggage Carts, Dollys and Transporters

Loading Aircraft

Types of Cargo

Weights and its Components

Refuelling

Bridges and Stairs

Aircraft Tugs

Jet Starters

Messages and Reporting



1.6 Hazards

Hazards on the Apron

Categorising Hazards

Airside Hazards

- Manual Handling
- Slips Trips and Falls
- Working at Height
- Vehicles
- Engines

- Landing Gear, Door, Flaps and Antennae

- Passenger Boarding Bridge

- Aircraft Fuelling

- Foreign Object Debris

- Noise

- Crush

Just Culture

1.7 Airside Markings and Signage

Boundary Marking Lines

Mandatory Signs

Information Signs

Safety Warnings

Wind Direction and Landing Direction

Indicators

Signal Area

Surface Markings

Runway Markings

Taxiway Markings

Chapter 2 - Fire and First Aid

2.1 Fire Prevention

Smoking

Good Housekeeping

Refuelling

Fire Fighting Equipment

2.2 Fire Protection and Fire Action

The Fire Triangle

Extinguishing Fire

Classification of Fires

Electrical Fires

Emergency Alerting Services

Fire Action

On Board Fires

2.3 First Aid

What is First Aid

Accidents with Injured Casualties

Procedures

First Aid: DR ABC

Unconsciousness

The Recovery Position

Treating Injury

- Bleeding

- Shock

- Burns

- Eye Injuries

Do's and Don'ts

Chapter 3 - Safety and Security

3.1 Security

Security VS Safety

Role of ID Card

Do's and Don'ts

3.2 Safety Philosophy and Regulations

Safety Definition

The Concept of Safety

The Evolution of Safety

Ground Operations Safety Incidents

Accident Causation

Defences

The Workplace

Errors and Violations

Practical Drift

Lessons Learned

The Aviation System

Safety Cultures

Promoting Safety

Managing Safety



3.3 Aircraft Danger Zones

Period of Danger
Forces Acting on Aircraft
Thrust
Danger Zone Rules

Jet Ingestion and Blast
Propellor Aircraft
Cones
Anti-Collision Beacons

3.4 Health and Safety

Personal Protective Equipment
Manual Handling
Support Equipment

Loading Tips
Foreign Object Debris

3.5 Severe Weather Conditions

Introduction to Severe Weather
Conditions
Preventive Measures

- Early Warning
- Lightning Notifications
- Lightning Alerts

- Shut Down Notifications

Communications in Severe Weather
Low Visibility
Ground Icing
High Winds
Lightning

3.5 Traffic Rules on Ramp

Airside Driving
Airside Areas
Ramp Rules

Circle of Safety
Equipment Restricted Areas
Positioning Vehicles and Equipment

3.6 Risk Assessment Process

5 Step Assessment
Hierarchy of Controls

The Accident Pyramid
PPE in Aviation

3.7 Accident and Incident Reporting

Difference Between Incident and Accident
Typical Incidents on the Ramp
Actions in Emergencies
Dangerous Goods
Reporting
Types of Reports
Legal Consequences

FINAL EXAM

END

