

Fundamentals of IS-BAO

International Standard for Business Aircraft Operations



Rev Jun 31, 2014





MÉXICO

Fletamento y Taxis Aéreos **2,106**

Centros de Adiestramiento **30**

Talleres Aeronáuticos **316**

Operadores de Estado **61**



Dictamen COFEMER/12/2490

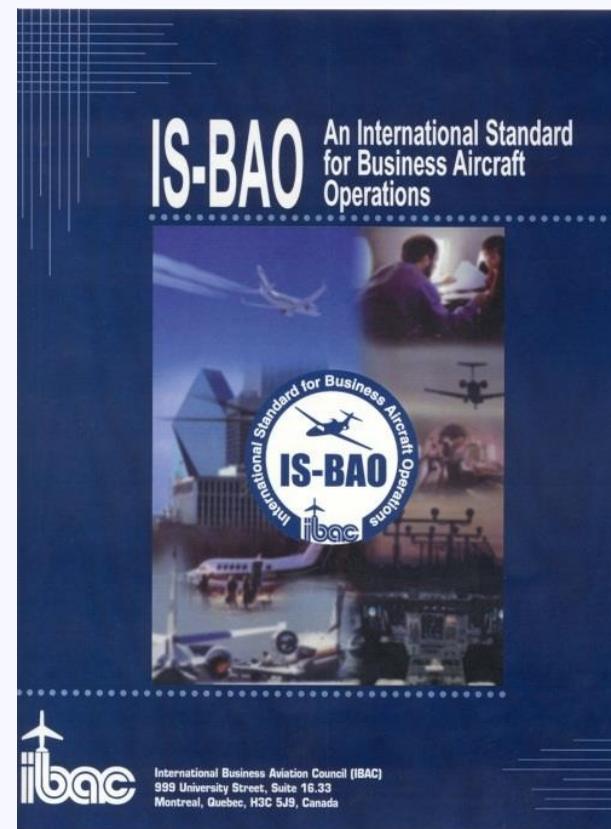
International Business Aviation Council (IBAC)

- Represents the Interests of Business Aviation Worldwide
- Non-Government Organization
- Permanent Observer Status with ICAO
- Manage the IS-BAO Program
- 14 Member Associations



IS-BAO Principles

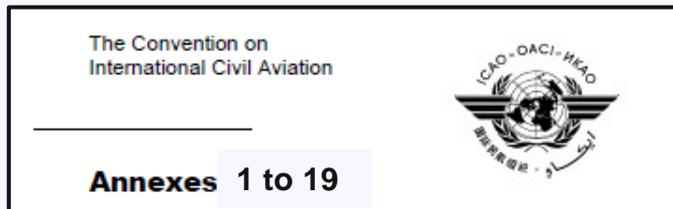
- Professional Code of Practice
- Voluntary – Registration Not Required
- Promotes Harmony of Operating Practices
- Scalable - Fits all Sizes, Missions, Aircraft
- SMS is the Foundation



IS-BAO Standards Development

- IS-BAO Standards based on:
 - ICAO Standards and Recommended Practices (SARPs)
 - Business Aviation Best Practices
- Many Standards are Performance-Based
 - Describe WHAT the Operator Must Do
 - The Operator Determines HOW

Fatigue
Management



Training
Programs

Tool
Control

IS-BAO Connection to ICAO SARP

- ICAO Annex 19 (SMS)
- ICAO Annex 6 (Operations)
- Other Annexes as Appropriate

Annex 1 - Personnel Licensing

Annex 2 - Rules of the Air

Annex 3 - Meteorological Services

Annex 4 - Aeronautical Charts

Annex 5 - Units of Measurement

Annex 6 - Operation of Aircraft

Annex 7 - Aircraft Nationality and Registration Marks

Annex 8 - Airworthiness of Aircraft

Annex 9 - Facilitation

Annex 10 - Aeronautical Telecommunications

Annex 11 - Air Traffic Services

Annex 12 - Search and Rescue

Annex 13 - Aircraft Accident and Incident Investigation

Annex 14 - Aerodromes

Annex 15 - Aeronautical Information Services

Annex 16 - Environmental Protection

Annex 17 - Security

Annex 18 - The Safe Transportation of Dangerous Goods by Air

Annex 19 – Safety Management Systems

IS-BAO Provides a Framework and Structure



Before IS-BAO



After IS-BAO

SMS Development and Implementation



Precursors to an Accident

▪ Latent Conditions

- Ineffective Policies
- Poor Processes/Procedures
- Inadequate Training
- Conflicting Goals

Capture via
Audits,
Internal
Evaluations,
Reporting
Systems



▪ Active Conditions

- Errors/Violations/Deviations from:
 - Company Policies
 - Company Process/Procedures
 - Manufacturer Procedures
 - Regulations

Capture via
FOQA,
Supervisor
Observations,
Debriefs,
Reporting
Systems



IS-BAO 3.2: SMS Requirements

- SMS appropriate to the size and complexity of the operation
- Based on ICAO (4 Components / 12 Elements)
- Facilitates State Recognition



Standards and Recommend Practices



4.0 Organization and Personnel Requirements

- Accurate Organizational Chart
- Every Position in the Organization Shall Have:
 - Job Description
 - Defined Qualifications
 - Duties and Responsibilities
- *Use of Psychoactive Substances*
- *Portable Electronic Devices (PEDs)*
- ***Fatigue Management for Everyone***



5.0 Training and Proficiency Chapter

5.1 Training Programs

5.2 CRM and Human Factors

5.3 Emergency and Safety Procedures

5.4 High Altitude

5.5 Proficiency Certification

5.6 Training / Qualification Records

- Flight Crew
- Cabin Crew
- Other Crew
- Scheduler
- Maintenance

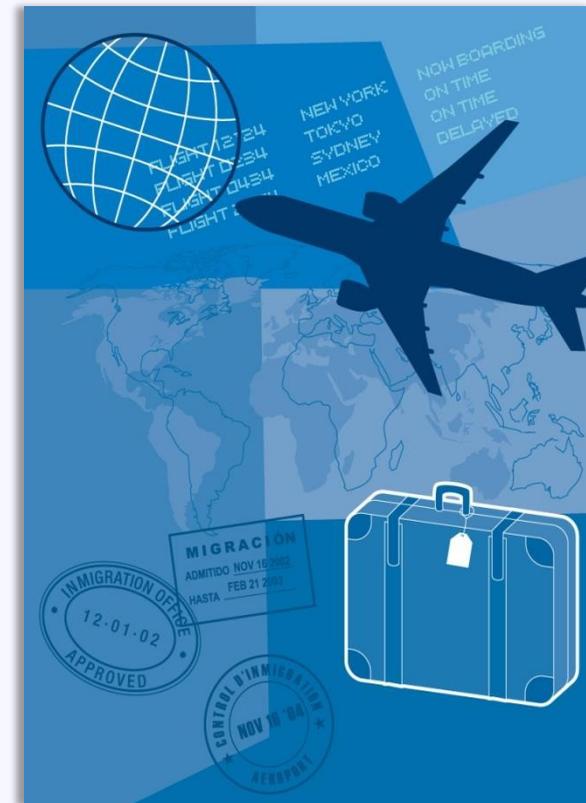


6.0 Flight Operations Chapter

- 6.1 Standard Operating Procedures
- 6.2 Flight Planning and Pre-Flight
- 6.3 Operational Control
- 6.4 Weather Minima
- 6.5 All Weather Operations
- 6.6 RNP, MNPS, RNAV & RVSM
- 6.7 Aircraft Operating Requirements
- 6.8 Noise Certification and Abatement
- 6.9 Aircraft Airworthiness
- 6.10 Use of Oxygen
- 6.11 Passenger Safety Briefing
- 6.12 Use of Checklists
- 6.13 Fatigue Countermeasures
- 6.14 Travel Health Issues
- 6.15 Seating Requirements
- 6.16 Cabin Baggage
- 6.17 Microphones
- 6.18 Qualification to Taxi Aeroplane
- 6.19 Helicopter Rotor Under Power
- 6.20 Maintenance Check Flights
- 6.21 Competency in Key Safety Areas

7.0 Ops in International Airspace (2014)

- **Pertains to ops outside sovereign airspace only**
- Requirements
 - Operating procedures (SOP's)
 - Training
 - Flight crew
 - *Library* authorization



8.0 Aircraft Equipment Requirements

- General
- Communication and Navigational
- Operational Info and Documentation
- Seats, Safety Belts & Harnesses
- Emergency Equipment – General
- Flights over Water
- Flights Over Remote Land Areas
- Icing Protection & Wx Detection
- ELT / GPWS / ACAS II
- Transponder & Altitude Reporting
- FDR and CVR
- Minimum Equipment List

9.0 Aircraft Maintenance Requirements

- 9.1 Maintenance Control System
- 9.2 Maintenance Agreements
- 9.3 Person Responsible for Maintenance
- 9.4 Maintenance Personnel Recency



10.0 Company Operations Manual

- Must have table of contents & amendment status
- Templates are helpful, but make it “Your Manual”
- Provisions and approval authority for deviations from manual (if deviations allowed)



11.0 Emergency Response Plan

- Aircraft accident and incident procedures
- In-flight incidents
- Other accidents, incidents, emergencies
- **11.5 Shall Train Personnel and test the plan (2013)**



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Emergency-Specific Preparedness Information

Take a Class

- Prepare
- Home & Family
- Workplace & Employees
- School & Students

Preparedness Information When It's Needed Most

Get the facts you need — before, during, and after a disaster or emergency situation. As the nation's

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12.0 Environmental Management

- Noise abatement procedures
- Ground operations, fueling, deicing/ anti-icing
- Disposal of waste materials and international garbage
- Facility construction and operations
 - Fueling facilities
- Emissions trading

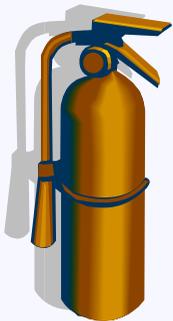


13.0 Occupational Health and Safety

- Workplace safety program
- Fire, first aid and sanitary requirements
- Safety/protective clothing, devices and equipment
- Employee safety information and training
- Machinery, tools and equipment
- HAZMAT procedures and training



- ***Recommend procedures for ANY person working alone (2014)***



14.0 Dangerous Goods

If the Operator Does NOT carry:

- Passenger training & notification
- Crewmember training each 2 years

If the Operator Carries:

- Regulatory requirements
- Procedures/ Emergency procedures
- Training



Prepare for Takeoff
Prohibited Items List



Transportation
Security
Administration

15.0 Security

Security Program includes

- Threat assessment
- Preventative measures
- Responsive measures
- Training
- Testing





Thanks!

