

Section 1: Introduction	14
1.1 Foreword	14
1.2 Summary of changes	14
1.3 Definitions	15
1.4 Abbreviations	17
1.5 Cabin Operations Safety Best Practices Guide	22
Section 2: IATA Cabin Safety	23
2.1 IATA Cabin Safety Initiatives	23
2.1.1 IATA Safety Connect	23
2.1.2 Cabin Operations Safety Conference	24
2.1.3 Cabin Safety Guidelines	24
2.1.4 Health and Safety Guidelines	24
2.1.5 Cabin Safety Data and Analysis	24
2.1.6 IATA Cabin Operations Safety Task Force (COSTF)	24
2.1.7 IATA Operational Safety Audit (IOSA)	25
Section 3: Safety Management	30
3.1 Safety Management System (SMS) in Cabin Operations	31
3.1.1 Accountability and Authority	31
3.1.2 Delegation of duties	32
3.2 Cabin Safety Action Group	32
3.3 SMS Training	33
3.4 Safety Risk Management	35
3.4.1 Risk Assessments in Cabin Operations	35
3.4.2 Risk Assessment Process	36
3.4.3 Risk Register	40
3.4.4 Risk Assessments in Cabin Layout Design and Selection	42
3.4.5 Safety Performance Measurement	48
3.5 Safety Reporting	53
3.5.1 Characteristics of Effective Reports	53
3.5.2 Process Flow	57
3.5.3 Submission of Reports	57
3.5.4 Evaluation and Classification of a Report	58
3.5.5 Closure of Reports	74
3.5.6 The Value of Effective Cabin Safety Reports	74
3.6 Line Operations Safety Audit (LOSA) – Cabin	74
3.6.1 Potential Threats	75
3.6.2 Who Should Carry Out LOSA Inspections?	78
3.6.3 Methods of Conducting LOSA	78



3.6.4	Examples of Observations.....	79
3.6.5	Example Cabin LOSA checklist.....	80
3.6.6	Post Audit	81
3.7	Safety Promotion	82
3.7.1	Cabin Crew Discussions During Training.....	82
3.7.2	Meeting Inbound Crew on Return to Base	82
3.7.3	Meeting Outbound Crew at Crew Report Centers	82
3.7.4	Newsletters	82
3.7.5	Specific Targeted Campaigns.....	83
3.8	Operations Manual (OM).....	84
3.8.1	Practical Manual.....	85
3.8.2	IOSA Table 5.1 – Operations Manual Content Specifications	86
3.9	Document Control.....	87
3.10	Quality Assurance	88
3.10.1	Auditing and evaluation	88
3.10.2	Addressing findings.....	88
3.10.3	Outsourced or External Service Providers.....	91
Section 4:	Fatigue Risk Management.....	92
4.1	Definition of Fatigue	92
4.1.1	Transient Fatigue.....	92
4.1.2	Cumulative Fatigue	92
4.2	Fatigue Risk Management System (FRMS).....	92
4.2.1	Stakeholders.....	93
4.2.2	Components of a FRMS	93
4.2.3	Fatigue Management Guide for Airline Operators	94
4.2.4	FRMS Policy and Documentation	95
4.2.5	Fatigue Safety Action Group.....	95
4.2.6	Fatigue Risk Management Processes.....	95
4.2.7	FRMS Promotion Processes.....	97
4.2.8	FRMS Training for Operators.....	97
4.3	Cabin Crew Fatigue.....	98
4.3.1	Sleep	98
4.3.2	Contributory Factors.....	98
4.3.3	Symptoms and Effects of Fatigue.....	99
4.3.4	Fatigue Preventive Strategies	99
4.3.5	Personal Mitigation Strategies	100
4.3.6	IMS SAFE	100
4.3.7	Flight Time, Flight Duty Periods and Rest Periods	100

Section 5: Cabin Crew	102
5.1 Number and Composition of Cabin Crew	102
5.1.1 Cabin Crew Safety Responsibilities.....	102
5.1.2 Senior Cabin Crewmember	103
5.1.3 Other Cabin Crew	103
5.2 Cabin Crew Qualifications	103
5.3 Cabin Crew Uniforms	104
5.4 Cabin Crew Medical Standards	105
5.4.1 Aeromedical Assessment	105
5.4.2 Alcohol, Drugs and Medication	105
5.5 Media and Social Media Policy	105
5.6 Human Factors	106
5.6.1 Human Factors Training.....	106
5.7 Crew Resource Management (CRM)	107
5.7.1 CRM Training	107
5.8 Threat and Error Management (TEM)	108
5.8.1 Threat and Error Management Framework.....	109
5.9 Cabin Crew Training	112
5.9.1 Training Records	113
5.9.2 Competency-based Training.....	113
5.10 Cabin crew mental health and wellbeing	113
5.10.1 Definitions	113
5.10.2 Encouraging dialogue around mental health.....	114
5.10.3 What factors can affect cabin crew mental health?	114
5.10.4 Recognizing the symptoms	115
5.10.5 Suicide	115
5.10.6 Why should airlines be concerned about cabin crew mental health and wellbeing?	115
5.10.7 What can airlines do?	116
5.10.8 Employee Mental Health and Business Growth	120
5.10.9 Resources	121
Section 6: Communication	122
6.1 Authority Definitions	122
6.2 Chain of Command	122
6.3 Common Language	123
6.4 Signals and Commands	123
6.5 Read-Back Instructions	124
6.6 Cooperation and Coordination	124
6.7 Cabin Crew Communications	124

Section 7: Operator Policies	125
7.1 In-flight Entertainment (IFE) Systems	125
7.2 Personal Transportation Devices	125
7.2.1 Operators' Experience and Risk Assessment of PTDs	126
7.2.2 Recommendations Regarding PTDs	126
7.3 Portable Electronic Devices (PEDs)	127
7.3.1 Transmitting and Non-transmitting Electronic Devices	127
7.3.2 Aircraft Fitted with On-Board Connectivity	127
7.3.3 Use of Portable Electronic Devices on Board	128
7.3.4 Risk Assessment & Management - PEDs	129
7.3.5 Permitted, Restricted and Prohibited Portable Electronic Devices	130
7.3.6 Medical Portable Electronic Devices	131
7.3.7 Monitoring PED Use in the Cabin	131
7.3.8 Passenger Awareness of PED Policy	132
7.3.9 Low-Visibility Operations	132
7.3.10 Suspected Electromagnetic Interference Report	132
7.3.11 Publication of PED policy	133
7.3.12 Cabin Crew Training	133
7.3.13 PEDs Supplied by the Operator	134
7.4 Non-certified Comfort Devices	136
7.4.1 Risk Assessment – Non-certified Comfort Devices	137
7.4.2 Decision Tool – Comfort Devices	138
7.5 Onboard Smoking Policy	139
7.5.1 Electronic Cigarettes and Vaping Devices	139
7.6 Carry-On Baggage	140
7.6.1 Contents of Carry-on Baggage	140
7.6.2 Risk Assessment – Carry-on Baggage	142
7.6.3 Carry-on Baggage Allowance	143
7.6.4 Identification of Carry-on Baggage	144
7.6.5 Excess Carry-on Baggage	144
7.6.6 Passenger Awareness of Carry-on Baggage	144
7.6.7 Responsibilities	145
7.6.8 Oversized, Fragile and Special Articles	146
7.7 Smart Luggage	146
7.7.1 Smart Luggage with Integrated Lithium Batteries	147
7.7.2 Smart Luggage with Integrated Active Devices	147
7.7.3 Quick Reference	148
7.7.4 Recommendations for Operators	149

7.7.5	Smart Luggage Firefighting Procedures	149
7.7.6	Safety Risk Assessment – Smart Luggage	150
7.8	Lithium Batteries and high energy items	150
7.8.1	Permitted carriage of Electronic Devices Containing Lithium Batteries.....	151
7.8.2	Damaged or Faulty Lithium Batteries.....	153
7.8.3	Carriage without Prior Approval of the Operator	153
7.8.4	Carriage with Prior Approval of the Operator	153
7.8.5	Risk Assessment - Lithium Batteries	154
7.8.6	Passenger Awareness of Lithium Batteries.....	155
7.9	Pets in the Passenger Cabin.....	156
7.10	Expectant Mothers.....	156
7.11	Passengers of Size.....	157
7.12	Non-discrimination	157
Section 8:	Carriage of Special Category Passengers	158
8.1	Deportees, Prisoners, Persons in Custody and under Administrative Control.....	158
8.1.1	Determination of Requirement for a Security Escort.....	159
8.1.2	Procedures for Carriage Without a Security Escort.....	159
8.1.3	Procedures for Carriage With a Security Escort	159
8.1.4	General Guidance for the Transport of Persons in Lawful Custody, Persons Under Arrest, Or Convicted Criminals Under Escort	160
8.2	Unaccompanied Minors	161
8.2.1	Risk Assessment – Unaccompanied Minors.....	161
8.2.2	Tracking of Unaccompanied Minors	161
8.2.3	Care of Unaccompanied Minors on board	162
8.3	Passengers with Children	162
8.4	Passengers with Infants	163
8.4.1	Infants Reaching Two Years of Age within the Validity of Ticket.....	163
8.4.2	Bassinets and Infant Floatation Equipment	163
8.5	Child and Infant Restraints	163
8.5.1	Infant Restraint.....	164
8.5.2	Child Restraint.....	164
8.5.3	Policies and Procedures	164
8.5.4	Permitted Locations in the Cabin.....	164
8.5.5	Awareness of Policy	165
8.6	Passengers with Disabilities (PWD)	166
8.6.1	Maximum Number of Passengers with Disabilities.....	166
8.6.2	Group Travel	166
8.6.3	Acceptance of Passengers with Disabilities.....	166
8.6.4	Assistance codes.....	167



8.6.5	Refusal or Removal of Passengers with disabilities.....	169
8.6.6	Medical Information Form.....	170
8.6.7	Frequent Traveler's Medical Card.....	170
8.6.8	Boarding and Disembarking.....	170
8.6.9	Evacuation Procedures.....	170
8.6.10	Seating.....	170
8.6.11	Accessible Lavatories.....	170
8.7	Individual Safety Briefings.....	171
8.8	Medical Equipment.....	171
8.8.1	Wheelchairs.....	171
8.8.2	Oxygen.....	172
8.8.3	Stretchers.....	172
8.8.4	Loading of Special Equipment.....	172
8.8.5	Mobility Aids.....	172
8.9	Service Animals.....	173
8.9.1	Emotional Support or Psychiatric Service Animals.....	173
Section 9:	Safety Equipment and Systems.....	174
9.1	Preflight Checks.....	174
9.2	Usage of Equipment.....	175
9.3	Axes.....	175
9.4	Bassinets.....	176
9.5	Cabin Crew Stations.....	176
9.6	Cabin Crew High-visibility Outerwear.....	176
9.7	Doors and Exits.....	177
9.8	Emergency Lighting.....	178
9.9	Emergency Locator Transmitters.....	178
9.10	Hand-held Fire Extinguishers.....	179
9.11	Automatic Fire Extinguishers.....	179
9.12	Non-mandatory Firefighting Equipment.....	180
9.13	Fixed Oxygen Systems.....	180
9.14	Flashlights.....	180
9.15	Life Vests/Jackets and Floatation Devices.....	181
9.15.1	Distribution of Infant Floatation Devices.....	181
9.16	Megaphones.....	182
9.17	Passenger Address System.....	182
9.18	Passenger Safety Information Cards.....	182
9.18.1	Design and Location.....	182
9.19	Passenger Seats.....	183

9.20	Seatbelts	184
9.20.1	"Y Fixing" Seatbelts.....	184
9.20.2	Airbag Seatbelts.....	184
9.20.3	Three-point Seatbelts.....	184
9.20.4	Extension Seatbelts.....	184
9.20.5	Cabin Crew Seat Harness.....	184
9.21	Portable Oxygen Bottles	185
9.22	Protective Breathing Equipment	185
9.23	Restraining Devices for Unruly Passengers	185
9.24	Safety Demonstration Kits	186
9.25	Slides, Slide/Rafts and Life Rafts	186
9.26	Emergency/Survival Equipment	187
9.27	Smoke Detectors	187
Section 10: Aircraft Door Safety		188
10.1	Risk Assessment – Door Procedures	188
10.2	Operation of Aircraft Doors	189
10.2.1	Door Operation Policy	189
10.2.2	Cabin Crew Door Operating Responsibilities.....	190
10.2.3	Departure - Door Closing.....	190
10.2.4	Preparing Doors for Departure	190
10.2.5	Preparing Doors for Arrival	191
10.2.6	Arrival – Door Opening	191
10.2.7	Signals.....	192
10.3	Removal of Ground Equipment from Aircraft Cabin Doors	192
10.4	Inadvertent Slide Deployment	193
10.4.1	Communication and coordination	193
10.4.2	Stop Drop Review	195
10.4.3	Cross Check Procedures	196
10.4.4	Reopening of Cabin Doors	196
10.4.5	Door operation with a door checker	196
10.4.6	Threat and Error Management in Slide Deployment.....	197
10.4.7	Establishment of memory aids.....	197
10.4.8	Door Armed Warning Systems	198
Section 11: Preflight		199
11.1	Crew Briefings	199
11.1.1	Journey Briefing between Flight Crew and Cabin Crew.....	199
11.1.2	Safety Briefing of Cabin Crew	200
11.1.3	Service Briefing of Cabin Crew	200



11.2	Aircraft Protection and Access Control of Restricted Areas	200
11.2.1	Cabin Inspectors	201
11.3	Security Search/Checks	201
11.3.1	Baggage Identification Check	201
11.4	Safety Equipment Check	202
11.5	Galley Checks	202
11.5.1	Reporting Defective Galley Equipment.....	203
11.6	Communication with Ground Staff	203
11.7	Passenger Information List (PIL)	203
11.8	Cabin Crew Positions for Boarding	203
11.9	Passenger Seating	204
11.9.1	Risk Assessment - Use of Crew Seats by Passengers.....	204
11.10	Passenger Count	204
11.10.1	Discrepancies.....	204
11.11	Fueling with Passengers Embarking, On Board or Disembarking	205
11.12	Ordinance Signs	206
11.12.1	No Smoking Sign	206
11.12.2	Fasten Seatbelt Sign	206
11.12.3	Portable Electronic Device Sign	206
11.13	Passenger Safety Briefing	206
11.13.1	Safety Announcements.....	206
11.13.2	Briefing of Passengers Seated Adjacent to Self-help Exits	208
11.14	Cabin Service on the Ground in the Event of a Delay	208
11.15	Deicing and Anti-icing	209
Section 12: Departure	210	
12.1	Preparation for Aircraft Movement	210
12.2	Preparation of Doors for Departure	210
12.3	Cabin Secure Check	210
12.4	Cabin Crew Seated for Departure	211
12.5	Takeoff Signal	211
12.6	Silent Review	211
12.7	Sterile Flight Deck	213
12.8	Entering and Leaving the Flight Deck	213
Section 13: In Flight	215	
13.1	Cabin Services	215
13.1.1	Service of Hot Beverages	215
13.2	Monitoring the Cabin	217
13.3	Galley Safety	218

13.3.1	Use of Galley Equipment.....	218
13.3.2	Liquid Spillage from Galley Rubbish Bins and Drains	218
13.3.3	Use of Dry Ice	219
13.3.4	Circuit Breakers	220
13.4	Service to Flight Crew	220
13.5	Service of Alcohol	221
13.5.1	Cabin Crew Response to Signs of Intoxication.....	222
13.6	Turbulence	222
13.6.1	IATA's Turbulence Aware Platform.....	223
13.6.2	Risk Assessment – Turbulence.....	223
13.6.3	Levels of Turbulence.....	224
13.6.4	Causes of turbulence.....	224
13.6.5	Proactive Fasten Seat Belt Policy	225
13.6.6	Communication	225
13.6.7	Anticipated Turbulence.....	225
13.6.8	Unanticipated Turbulence.....	225
13.6.9	Cabin Crew Response	225
13.6.10	Turbulence Reporting.....	227
13.7	Dangerous Goods.....	228
Section 14: Descent and Landing		229
14.1	Descent	229
14.2	Passenger Briefing Prior to Landing.....	229
14.3	Return of Coats, Jackets and Other Clothing	229
14.4	Pre-landing Cabin Secure Checks.....	229
14.5	Descent and Landing Signals.....	229
14.6	Cabin Crew Seated for Landing and Arrival.....	229
Section 15: Arrival.....		230
15.1	Preparation of Doors for Arrival	230
15.2	Door Opening	230
15.3	Passenger Disembarkation	230
15.4	Post Disembarkation	230
Section 16: Abnormal and Emergency Procedures		231
16.1	Management of Emergencies	231
16.1.1	Levels of Stress	231
16.1.2	Landing Categories	231
16.1.3	Unplanned and Planned Emergencies.....	231
16.1.4	Urgent Communication	231
16.1.5	Managing Filming During Emergencies.....	231

16.2	Crewmember Incapacitation.....	232
16.2.1	Flight Crew Incapacitation	232
16.2.2	Suggested Cabin Crew Incapacitation Drill.....	233
16.3	Cabin Pressurization	233
16.3.1	Non-pressurization	233
16.3.2	Depressurization	233
16.3.3	Hypoxia.....	234
16.3.4	Guidance for Depressurization Procedures.....	235
16.3.5	Suggested Cabin Crew Depressurization Drill	236
16.4	Rapid Deplaning.....	236
16.4.1	Suggested Cabin Crew Rapid Deplaning Drill.....	237
16.5	Emergency Evacuations.....	237
16.5.1	Initiating Evacuation	238
16.5.2	Unplanned Emergency Evacuation.....	238
16.5.3	Planned Emergency Evacuation.....	238
16.5.4	The Brace Position	241
16.5.5	Suggested Cabin Crew Drill – Emergency Evacuation	244
16.5.6	Carry-on Baggage during an Evacuation	244
16.5.7	The Effect of Smoke and Fire during Evacuation	245
16.5.8	Slide Evacuation with Infants and Young Children.....	245
16.5.9	Passenger Commands during an Emergency.....	246
16.5.10	Aircraft Rescue and Firefighting Signals.....	248
16.5.11	Evacuation of Cabin Crew.....	249
16.5.12	Post-evacuation	249
16.5.13	Ditching	250
16.6	Fire.....	251
16.6.1	Prevention and Early Detection	251
16.6.2	Smoke and Burning Odors	252
16.6.3	Hidden Fires	253
16.6.4	Fighting a Fire	254
16.6.5	Lithium Battery Fires.....	255
16.7	Cabin Fume Events	257
16.8	Escaped Animals in the Cabin.....	258
16.8.1	Prevention	258
16.8.2	Indicators.....	258
16.8.3	Assessment	258
16.8.4	Potential Hazards and Suggested Containment Method	259
16.8.5	Suggested Cabin Crew Drill – Escaped Wildlife Inflight.....	259

Section 17: Security	260
17.1 IATA Security Management Systems Manual	260
17.2 Liquids, Aerosols and Gels (LAGs)	260
17.2.1 Medical and Special Dietary Requirements	261
17.2.2 LAGS Purchased as Duty Free.....	261
17.3 Powders	261
17.4 Suspicious Items Discovered Onboard	262
17.4.1 Suspected Improvised Explosive Device (IED)	262
17.4.2 Suspected Chemical, Biological or Radioactive (CBR) device	262
17.5 Reinforced Flight Deck Door	262
17.6 Unruly Passengers	263
17.6.1 Responsibilities.....	263
17.6.2 Causes of unruly behavior.....	263
17.6.3 Cultural diversity.....	264
17.6.4 Definitions of unruly behavior	264
17.6.5 Company Policy.....	266
17.6.6 Staff Awareness	268
17.6.7 Training.....	268
17.6.8 Passenger Awareness.....	269
17.6.9 Preventing unruly behavior	269
17.6.10 De-escalation	270
17.6.11 Managing unruly passengers onboard.....	273
17.6.12 Post incident.....	276
17.7 Trafficking in Persons	279
17.7.1 The Role of Aviation in the Fight against Human Trafficking	279
17.8 Theft on Board	279
17.8.1 On the ground	280
17.8.2 In the Air	280
17.9 Crew Protection During Layovers	281
17.9.1 Civil Unrest, Major Incidents and Terrorist Attacks	282
Section 18: Health and Medical Care on Board	283
18.1 Cabin Insect Extermination (Disinsecting)	283
18.1.1 Method 1: Preflight and top of descent combined	283
18.1.2 Method 2: Blocks Away	283
18.1.3 Method 3: Residual	283
18.1.4 Proof of Disinsecting.....	283
18.1.5 Risk Assessment – Disinsecting.....	284
18.2 Medical Care Policy	284



18.3	Passive Screening of Passengers	285
18.4	Medical Event Process	286
18.5	Reporting of Medical Incidents	286
18.6	When to Cease Cardiopulmonary Resuscitation (CPR)	287
18.7	Handling of a Death on Board	287
18.8	Carriage of passengers who may require supplemental oxygen during flight	288
18.8.1	Carriage of Medical Portable Electronic Devices (MPEDs)	288
18.8.2	Airway Pressure Devices	288
18.8.3	Portable Oxygen Concentrators	288
18.8.4	Acceptance and Use of MPEDs.....	288
18.9	Emergency Equipment and Supplies	289
18.9.1	First Aid Kits	289
18.9.2	Medical Kit	289
18.9.3	Universal Precaution Kits.....	290
18.9.4	Automatic External Defibrillators.....	290
18.9.5	Survival Equipment	290
18.10	Training	290
18.11	Cabin Crew Manual	290
18.12	Cabin Crew Protection	291
18.13	Crew Immunization	291
18.14	Carriage of Passengers with Communicable Diseases	291
Section 19: Food and Hygiene		292
19.1	Acceptance of Catering Supplies on Aircraft	292
19.2	Crew Service Briefings	292
19.3	Hygiene and Sanitation	292
19.3.1	Risks and Prevention.....	292
19.3.2	Personal Hygiene	293
19.3.3	Galley Equipment.....	293
19.3.4	Special Cleaning	293
19.4	Food Safety	294
19.4.1	Adequate Temperature	294
19.4.2	Keeping Food at the Correct Temperature.....	294
19.4.3	Heating Process	295
19.4.4	Insects and Foreign Objects.....	295
19.5	Suspected Food Poisoning	295
19.6	Allergen Management	295
19.7	Special Meals	296
19.8	Potable Water and Ice	296

19.9	Feedback from Passengers and Crew	296
19.10	Reporting of Service Delivery Irregularities	297
Section 20: Cabin operations during a pandemic public health emergency		298
20.1	Assessment of exposure risks to crew and passengers	298
20.2	Procedural review and safety risk assessment.....	298
20.2.1	Changes which were common during Covid-19 pandemic.....	298
Section 21: References and Appendices		300
21.1	Phonetic Alphabet.....	300
21.2	References	300
21.2.1	Expanded use of PEDs	300
21.2.2	Electronic cigarettes.....	301
21.2.3	Evacuation.....	301
21.2.4	Lithium Batteries	301
21.3	Related Organizations.....	302
Appendix A – Example Risk Assessment Template		304
Appendix B – Risk Assessment examples.....		305
Appendix B1 – Example Risk Assessment – Change in Carry-on Baggage Policy		306
Appendix B2 – Example Risk Assessment – Virtual Reality Inflight Entertainment		308
Appendix B3 – Example Risk Assessment – Inflatable Child Comfort Devices.....		311
Appendix B4 – Example Risk Assessment – Introduction of Cabin EFB		313
Appendix B5 – Example Risk Assessment - Turbulence.....		315
Appendix B6– Example Risk Assessment – Slide descent training		318
Appendix B7– Example Risk Assessment – Use of crew seats by persons other than cabin crew.....		320
Appendix C – Cabin Crew Checklist for Fires Involving Batteries and Portable Electronic Devices (PED).....		322
Appendix D – Amplified Cabin Crew Checklist for Fires Involving Batteries and Portable Electronic Devices (PEDs) 325		
Appendix E – Sample Fatigue Report Form for Cabin Crew		331
Appendix F – Sample Unruly Passenger Policy		333
Appendix G - Sample Airline Violation Warning.....		336
Appendix H - Sample Passenger Notification Card		337
Appendix I– Sample Unruly Passenger Incident Report.....		338
Appendix J – Sample Briefing to Authorities Cards		342