# **Democratic Socialist Republic of Sri Lanka**



# **Civil Aviation Authority of Sri Lanka**

Implementing Standards

(Issued under Sec. 120, Civil Aviation Act No. 14 of 2010)

# **Title: Requirements for Establishment, Operation and Maintenance of a Flying Training Organization**

**Reference No: IS-ORA** 

S.N: SLCAIS 67

Date: 12<sup>th</sup> March 2018

Pursuant to Sec. 120 of the Civil Aviation Act No.14 of 2010, Director General of Civil Aviation shall have the power to issue, whenever he considers it necessary or appropriate to do so, such Implementing Standards for the purpose of giving effect to any of the provisions of the Civil Aviation Act, any regulations or rules made thereunder including the Articles of the Convention on International Civil Aviation which are specified in the Schedule to the Act.

Accordingly, the undersigned being the Director General of Civil Aviation do hereby issue the Implementing Standards relating to Requirements for Establishment, Operation and Maintenance of a Flying Training Organization as specified under section 69 "Aviation Training Institutions" in the aforementioned Act and International Standards & Recommended Practices described under Article 37 of the Convention, which are specified in the Attachment.

This document supersedes the Aviation Safety Notice (ASN) 028, and shall come into force with effect from 01.08.2018 and remain in force unless revoked.

Attention is also drawn to sec. 103 of the Act, which states inter alia that failure to comply with Implementing Standard is an offence.

H.M.C. Nimalsiri Director General of Civil Aviation and Chief Executive Officer

Civil Aviation Authority of Sri Lanka No. 152/1, Minuwangoda Road, Katunayake. Enclosure: Attachment No. IS-ORA-Att.

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1<sup>st</sup> Edition

Rev:00

# **Implementing Standards**

# SLCAIS-67: Requirements for Establishment, Operation and Maintenance of a Flying Training Organization

# 1 General

# 1.1 Applicable Legal Provisions relating to the issue of the Implementing Standards

- (a) Section 69 of the Civil Aviation Act No.14 of 2010;
- (b) Paragraph 1.2.8 chapter 1 and Appendix 2 of the Annex 1 "Personnel Licensing" to the Convention;
- (c) Paragraph 1.2.8 of chapter 1 and Appendix 2 the Implementing Standards 050;
- (d) Chapter V of Air Navigation Regulation of 1955 and
- (e) Air Navigation Regulation (interim) of 2002

# 1.2 Objective

The objective of this Implement Standard is to describe the requirements are to be satisfied in the in the Establishment, Operation and Maintenance of a Training Organization in Sri Lanka.

# 1.3 Applicability

- (a) Organizations engaged in training of pilots.
- (b) Applicants for establishment of operation and maintenance of Training Organizations for Pilots.

# **1.4** Document repealed

This document supersedes the Aviation Safety Notice (ASN) 028 issued by the DGCA and ASN 028 shall be treated as null and void from 01.08.2018.

# **1.5** Other related explanatory material

- (a) Personnel Licensing Procedures Manual, SLCAP 3010
- (b) Flying School Certification Manual, SLCAP 3090

#### **1.6** Acceptable Means of Compliance

AMCs are non-binding standards issued by DGCA Sri Lanka to illustrate means to establish compliance with the IS.

AMC do not form part of legal framework and do not create additional obligation to show compliance. It only provides guidance as to how a particular requirement can be complied with. If an AMC is compiled with in relation to satisfying a requirement, it would be accepted as compliance with the requirement. If any other means of compliance is selected, it is necessary to prove that the selected option provides equal or better protection and such a measure shall be at the expenses of the proponent.

Since the AMCs are not binding, the regulated person may choose alternative means to comply with the rules.

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#### list of acronyms used throughout this Document

(A) aeroplane

(H) helicopter

ACAS- airborne collision avoidance system

AD- airworthiness directive

AIS- aeronautical information service

AM- accountable manager

AMC- Acceptable Means of Compliance

ARA- authority requirements for aircrew

ATA- Air Transport Association

ATC- air traffic control

ATO- approved training organisation

ATPL- airline transport pilot licence

BITD- basic instrument training device

BPL- balloon pilot licence

CBT- computer-based training

CFI- chief flying instructor

CM- compliance monitoring

CMP- compliance monitoring programme

CMS- compliance monitoring system

COP- code of practice

CRM- crew resource management

CS-FSTD(A)- Certification Specifications for aeroplane flight simulation training devices

CS-FSTD(H)- Certification Specifications for helicopter flight simulation training devices

CTKI- chief theoretical knowledge instructor

DG- dangerous goods

EC- European Community

ERP- emergency response plan

ETOPS- extended range operations with twin-engined aeroplanes

FATO- final approach and take-off area

FFS- full flight simulator

FMGC- flight management and guidance computer

FMS- flight management system

FNPT- flight navigation and procedures trainer

FSTD- flight simulation training device

FTD- flight training device

FTE- full-time equivalent

FTI- flight test instructor

GM- Guidance Material

GMP- general medical practitioner

HEMS- helicopter emergency medical service

HHO- helicopter hoist operation

HT- head of training

IFR- instrument flight rules IMC- instrument meteorological conditions IOS- instructor operation station **IR-** Implementing Rule LAPL- light aircraft pilot licence LIFUS- line flying under supervision LVO- low visibility operation MCC- multi-crew cooperation MMEL- master minimum equipment list MPA- multi-pilot aeroplane MPL- multi-crew pilot licence NVIS- night vision imaging system OPC- operator proficiency check ORA- organisation requirements for aircrew OSD- operational suitability data OTD- other training device PBN- performance-based navigation PF- pilot flying PIC- pilot-in-command PPL- private pilot licence QTG- qualification test guide SMM- safety management manual SOP- standard operating procedure SPL- sailplane pilot licence TAWS- terrain awareness warning system TRE -type rating examiner TRI- type rating instructor VDR -validation data roadmap ZFTT- zero flight-time training

# **Requirements for Establishment, Operation and Maintenance of a** Flying Training Organization

# [PART-ORA] SUBPART GEN GENERAL REQUIREMENTS SECTION I General

# **ORA.GEN.105** Competent authority

- (a) For the purpose of this Part, the DGCA Sri Lanka shall exercise certification and oversight obligations over
  - (i) Organisations having their principal place of business in Sri Lanka
  - (ii) Organisations having their principal place of business located in a third country,
  - (iii)FSTDs: located outside the territory of Sri Lanka or, located within the territory of Sri Lanka and operated by Organisations having their principal place of business located in Sri Lanka
  - (iv) FSTDs located within the territory of Sri Lanka and operated by Organisations having their principal place of business outside Sri Lanka in overseas
- (b) When the FSTD located outside the territory of Sri Lanka is operated by an Organisation certified by a Member State, the DGCA Sri Lanka shall qualify this FSTD in coordination with the Member State that has certified the Organisation that operates such FSTD.

# **ORA.GEN.115** Application for an Organisation certificate

- (a) The application for an Organisation certificate or an amendment to an existing certificate shall be made in a form and manner established by the DGCA Sri Lanka, taking into account the applicable requirements
- (b) Applicants for an initial certificate shall provide the DGCA Sri Lanka with documentation demonstrating how they will comply with the applicable requirements. Such documentation shall include a procedure describing how changes not requiring prior approval will be managed and notified to the DGCA Sri Lanka

#### **ORA.GEN.120** Means of compliance

- (a) Alternative means of compliance to the AMC adopted by the DGCA Sri Lanka may be used by an Organisation to establish compliance with Regulations and its Implementing Standards.
- (b) When an organization wishes to use an alternative means of compliance, it shall, prior to implementing it, provide the DGCA Sri Lanka with a full description of the alternative means of compliance. The description shall include any revisions to manuals or procedures that may be relevant, as well as an assessment demonstrating that Regulations and its Implementing Standards are met.

The Organisation may implement these alternative means of compliance subject to prior approval by the DGCA Sri Lanka and upon receipt of the notification ARA Gen 120(d).

# AMC1 ORA.GEN.120(a) Means of compliance

# **DEMONSTRATION OF COMPLIANCE**

In order to demonstrate that the Implementing Rules are met, a risk assessment should be completed and documented. The result of this risk assessment should demonstrate that an equivalent level of safety to that established by the Acceptable Means of Compliance (AMC) adopted by the DGCA Sri Lanka is reached.

# **ORA.GEN.125** Terms of approval and privileges of an Organisation

A certified Organisation shall comply with the scope and privileges defined in the terms of approval attached to the Organisation's certificate.

# AMC1 ORA.GEN.125 Terms of approval and privileges of an Organisation

# MANAGEMENT SYSTEM DOCUMENTATION

The management system documentation should contain the privileges and detailed scope of activities for which the Organisation is certified, as relevant to the applicable requirements. The scope of activities defined in the management system documentation should be consistent with the terms of approval.

# **ORA.GEN.130** Changes to Organisations

- (a) Any change affecting:
  - (i) the scope of the certificate or the terms of approval of an Organisation; or
  - (ii) any of the elements of the Organisation's management system as required in ORA.GEN.200(a)(1) and (a)(2),

shall require prior approval by the DGCA Sri Lanka.

(b) For any changes requiring prior approval in accordance with Regulation its Implementing Standards the Organisation shall apply for and obtain an approval issued by the DGCA Sri Lanka. The application shall be submitted before any such change takes place, in order to enable the DGCA Sri Lanka to determine continued compliance with Regulation and its Implementing Standards and to amend, if necessary, the Organisation certificate and related terms of approval attached to it.

The Organisation shall provide the DGCA Sri Lanka with any relevant documentation.

The change shall only be implemented upon receipt of formal approval by the DGCA Sri Lanka in accordance with ARA.GEN.330.

The Organisation shall operate under the conditions prescribed by the DGCA Sri Lanka during such changes, as applicable.

(c) All changes not requiring prior approval shall be managed and notified to the DGCA Sri Lanka as defined in the procedure approved by the DGCA Sri Lanka in accordance with ARA.GEN.310(c)

# AMC1 ORA.GEN.130 Changes to Organisations

# **APPLICATION TIME FRAMES**

- (a) The application for the amendment of an Organisation certificate should be submitted at least 30 days before the date of the intended changes.
- (b) In the case of a planned change of a nominated person, the Organisation should inform the DGCA Sri Lanka at least 10 days before the date of the proposed change.
- (c) Unforeseen changes should be notified at the earliest opportunity, in order to enable the DGCA Sri Lanka to determine continued compliance with the applicable requirements and to amend, if necessary, the Organisation certificate and related terms of approval.

# GM1 ORA.GEN.130(a) Changes to Organisations

# GENERAL

- (a) Typical examples of changes that may affect the certificate or the terms of approval are listed below:
  - (i) the name of the Organisation;
  - (ii) the Organisation's principal place of business;
  - (iii) the Organisation's scope of activities;
  - (iv) additional locations of the Organisation;
  - (v) the accountable manager;
  - (vi) any of the persons referred to in ORA.GEN.210 (a) and (b);
  - (vii) the Organisation's documentation as required by this Part, safety policy and procedures;
  - (viii) the facilities.
- (b) Prior approval by the DGCA Sri Lanka is required for any changes to the Organisation's procedure describing how changes not requiring prior approval will be managed and notified to the DGCA Sri Lanka.
- (c) Changes requiring prior approval may only be implemented upon receipt of formal approval by the DGCA Sri Lanka.

# GM2 ORA.GEN.130(a) Changes to Organisations

# CHANGE OF NAME OF THE ORGANISATION

A change of name requires the Organisation to submit a new application as a matter of urgency. Where this is the only change to report, the new application can be accompanied by a copy of the documentation previously submitted to the DGCA Sri Lanka under the previous name, as a means of demonstrating how the Organisation complies with the applicable requirements.

# **ORA.GEN.135** Continued validity

- (a) The Organisation's certificate shall remain valid subject to:
  - (i) the Organisation remaining in compliance with the relevant requirements of Regulation and its Implementing Standards taking into account the provisions related to the handling of findings as specified under ORA.GEN.150;
  - (ii) the DGCA Sri Lanka, being granted access to the Organisation as defined in ORA.GEN.140 to determine continued compliance with the relevant requirements of Regulation and its Implementing Standards and

(iii) the certificate not being surrendered or revoked.

(b) Upon revocation or surrender the certificate shall be returned to the DGCA Sri Lanka without delay.

#### **ORA.GEN.140** Access

For the purpose of determining compliance with the relevant requirements of Regulation and its Implementing Standards, the Organisation shall grant access to any facility, aircraft, document, records, data, procedures or any other material relevant to its activity subject to certification, whether it is contracted or not, to any person authorised by

- (a) the DGCA Sri Lanka defined in ORA GEN 105; or
- (b) the DGCA Sri Lanka acting under the provisions of ARA.GEN.300(d), ARA GEN 300 (e) or ARO.RAMP.

#### **ORA.GEN.150** Findings

After receipt of notification of findings, the Organisation shall:

- (a) identify the root cause of the non-compliance;
- (b) define a corrective action plan; and
- (c) demonstrate corrective action implementation to the satisfaction of the DGCA Sri Lanka within a period agreed with that Authority as defined in ARA GEN 350(d).

# AMC1 ORA.GEN.150(b) Findings

# GENERAL

The corrective action plan defined by the Organisation should address the effects of the nonconformity, as well as its root-cause.

# **GM1 ORA.GEN.150 Findings**

# GENERAL

- (a) Corrective action is the action to eliminate or mitigate the root cause(s) and prevent recurrence of an existing detected non-compliance or other undesirable condition or situation.
- (b) Proper determination of the root cause is crucial for defining effective corrective actions.

#### **ORA.GEN.155** Immediate reaction to a safety problem

The Organisation shall implement:

- (a) any safety measures mandated by the DGCA Sri Lanka in accordance with ARA.GEN.135 (c) ; and
- (b) any relevant mandatory safety information issued by the DGCA Sri Lanka including Airworthiness Directives.

#### **ORA.GEN.160** Occurrence reporting

- (a) The Organisation shall report to the DGCA Sri Lanka, and to any other Organisation required by the State of the operator to be informed, any accident, serious incident and occurrence as defined in Regulation and the applicable Implementing Standards.
- (b) Without prejudice to paragraph (a) the Organisation shall report to the DGCA Sri Lanka and to the Organisation responsible for the design of the aircraft any incident, malfunction, technical defect, exceeding of technical limitations and any occurrence that would highlight inaccurate, incomplete or ambiguous information contained in the operational suitability data established in accordance with applicable Regulations and Requirements or other irregular circumstance that has or may have endangered the safe operation of the aircraft and that has not resulted in an accident or serious incident.
- (c) The reports referred in paragraphs (a) and (b) shall be made in a form and manner established by the DGCA Sri Lanka and contain all pertinent information about the condition known to the Organisation.
- (d) Reports shall be made as soon as practicable, but in any case within 72 hours of the Organisation identifying the condition to which the report relates, unless exceptional circumstances prevent this.
- (e) Where relevant, the Organisation shall produce a follow-up report to provide details of actions it intends to take to prevent similar occurrences in the future, as soon as these actions have been identified. This report shall be produced in a form and manner established by the DGCA Sri Lanka.

# AMC1 ORA.GEN.160 Occurrence reporting

# GENERAL

(a) The Organisation should report all occurrences defined as specified by DGCA on occurrence reporting in civil aviation.

# **SECTION II**

#### Management

#### **ORA.GEN.200** Management system

- (a) The Organisation shall establish, implement and maintain a management system that includes:
  - (1) clearly defined lines of responsibility and accountability throughout the Organisation, including a direct safety accountability of the accountable manager;
  - (2) a description of the overall philosophies and principles of the Organisation with regard to safety, referred to as the safety policy;
  - (3) the identification of aviation safety hazards entailed by the activities of the Organisation, their evaluation and the management of associated risks, including taking actions to mitigate the risk and verify their effectiveness;
  - (4) maintaining personnel trained and competent to perform their tasks;
  - (5) documentation of all management system key processes, including a process for making personnel aware of their responsibilities and the procedure for amending this documentation;
  - (6) a function to monitor compliance of the Organisation with the relevant requirements. Compliance monitoring shall include a feedback system of findings to the accountable manager to ensure effective implementation of corrective actions as necessary; and
  - (7) any additional requirements that are prescribed in the relevant subparts of this Part or other applicable Parts.
  - (b) The management system shall correspond to the size of the Organisation and the nature and complexity of its activities, taking into account the hazards and associated risks inherent in these activities.
  - (c) Notwithstanding point (a), in an Organisation providing training only for the PPL or BPL and the associated ratings or certificates, safety risk management and compliance monitoring defined in points (a)(3) and (a)(6) may be accomplished by an Organisational review, to be performed at least once every calendar year. The DGCA Sri Lanka shall be notified about the results of this review by the Organisation without undue delay.

# AMC1 ORA.GEN.200(a)(1);(2);(3);(5) Management system

# NON-COMPLEX ORGANISATIONS - GENERAL

- (a) Safety risk management may be performed using hazard checklists or similar risk management tools or processes, which are integrated into the activities of the Organisation.
- (b) The Organisation should manage safety risks related to a change. The management of change should be a documented process to identify external and internal change that may have an adverse effect on safety. It should make use of the Organisation's existing hazard identification, risk assessment and mitigation processes.

- (c) The Organisation should identify a person who fulfils the role of safety manager and who is responsible for coordinating the safety management system. This person may be the accountable manager or a person with an operational role in the Organisation.
- (d) Within the Organisation, responsibilities should be identified for hazard identification, risk assessment and mitigation.
- (e) The safety policy should include a commitment to improve towards the highest safety standards, comply with all applicable legal requirements, meet all applicable standards, consider best practices and provide appropriate resources.
- (f) The Organisation should, in cooperation with other stakeholders, develop, coordinate and maintain an emergency response plan (ERP) that ensures orderly and safe transition from normal to emergency operations and return to normal operations. The ERP should provide the actions to be taken by the Organisation or specified individuals in an emergency and reflect the size, nature and complexity of the activities performed by the Organisation.

# AMC1 ORA.GEN.200(a)(1) Management system

# COMPLEX ORGANISATIONS - ORGANISATION AND ACCOUNTABILITIES

The management system of an Organisation should encompass safety by including a safety manager and a safety review board in the Organisational structure.

(a) Safety manager

(1) The safety manager should act as the focal point and be responsible for the development, administration and maintenance of an effective safety management system.

# (2) The functions of the safety manager should be to:

- (i) facilitate hazard identification, risk analysis and management;
- (ii) monitor the implementation of actions taken to mitigate risks, as listed in the safety action plan;
- (iii)provide periodic reports on safety performance;
- (iv) ensure maintenance of safety management documentation;
- (v) ensure that there is safety management training available and that it meets acceptable standards;
- (vi) provide advice on safety matters; and
- (vii) ensure initiation and follow-up of internal occurrence / accident investigations.
- (b) Safety review board

- (1) The Safety review board should be a high level committee that considers matters of strategic safety in support of the accountable manager's safety accountability.
- (2) The board should be chaired by the accountable manager and be composed of heads of functional areas.
- (3) The safety review board should monitor:
  - (i) safety performance against the safety policy and objectives;
  - (ii) that any safety action is taken in a timely manner; and
  - (iii) the effectiveness of the Organisation's safety management processes.
- (c) The safety review board should ensure that appropriate resources are allocated to achieve the established safety performance.
- (d) The safety manager or any other relevant person may attend, as appropriate, safety review board meetings. He/she may communicate to the accountable manager all information, as necessary, to allow decision making based on safety data.

# GM1 ORA.GEN.200(a)(1) Management system

# SAFETY MANAGER

- (a) Depending on the size of the Organisation and the nature and complexity of its activities, the safety manager may be assisted by additional safety personnel for the performance of all safety management related tasks.
- (b) Regardless of the Organisational set-up it is important that the safety manager remains the unique focal point as regards the development, administration and maintenance of the Organisation's safety management system.

# GM2 ORA.GEN.200(a)(1) Management system

# **COMPLEX ORGANISATIONS - SAFETY ACTION GROUP**

- (a) A safety action group may be established as a standing group or as an ad-hoc group to assist or act on behalf of the safety review board.
- (b) More than one safety action group may be established depending on the scope of the task and specific expertise required.
- (c) The safety action group should report to and take strategic direction from the safety review board and should be comprised of managers, supervisors and personnel from operational areas.

- (d) The safety action group should:
  - (i) monitor operational safety;
  - (ii) resolve identified risks;
  - (iii) assess the impact on safety of operational changes; and
  - (iv) ensure that safety actions are implemented within agreed timescales.
- (e) The safety action group should review the effectiveness of previous safety recommendations and safety promotion.

# AMC1 ORA.GEN.200(a)(2) Management system

# **COMPLEX ORGANISATIONS - SAFETY POLICY**

- (a) The safety policy should:
  - (i) be endorsed by the accountable manager;
  - (ii) reflect Organisational commitments regarding safety and its proactive and systematic management;
  - (iii)be communicated, with visible endorsement, throughout the Organisation; and
  - (iv) include safety reporting principles.
- (b) The safety policy should include a commitment:
  - (i) to improve towards the highest safety standards;
  - (ii) to comply with all applicable legislation, meet all applicable standards and consider best practices;
  - (iii)to provide appropriate resources;
  - (iv) to enforce safety as one primary responsibility of all managers; and
  - (v) not to blame someone for reporting something which would not have been otherwise detected.

#### (c) Senior management should:

- (i) continually promote the safety policy to all personnel and demonstrate their commitment to it;
- (ii) provide necessary human and financial resources for its implementation; and
- (iii)establish safety objectives and performance standards.

# GM1 ORA.GEN.200(a)(2) Management system

# SAFETY POLICY

The safety policy is the means whereby the Organisation states its intention to maintain and, where practicable, improve safety levels in all its activities and to minimise its contribution to the risk of an aircraft accident as far as is reasonably practicable.

The safety policy should state that the purpose of safety reporting and internal investigations is to improve safety, not to apportion blame to individuals.

# AMC1 ORA.GEN.200(a)(3) Management system

# **COMPLEX ORGANISATIONS - SAFETY RISK MANAGEMENT**

- (a) Hazard identification processes
  - (1) Reactive and proactive schemes for hazard identification should be the formal means of collecting, recording, analysing, acting on and generating feedback about hazards and the associated risks that affect the safety of the operational activities of the Organisation.
  - (2) All reporting systems, including confidential reporting schemes, should include an effective feedback process.

#### (b) Risk assessment and mitigation processes

- (1) A formal risk management process should be developed and maintained that ensures analysis (in terms of likelihood and severity of occurrence), assessment (in terms of tolerability) and control (in terms of mitigation) of risks to an acceptable level.
- (2) The levels of management who have the authority to make decisions regarding the tolerability of safety risks, in accordance with (b) (1), should be specified.
- (c) Internal safety investigation
  - (1) The scope of internal safety investigations should extend beyond the scope of occurrences required to be reported to the DGCA Sri Lanka competent authority.

#### (d) Safety performance monitoring and measurement

- (2) Safety performance monitoring and measurement should be the process by which the safety performance of the Organisation is verified in comparison to the safety policy and objectives.
- (3) This process should include:
  - (i) safety reporting;
  - (ii) safety studies, that is, rather large analyses encompassing broad safety concerns;
  - (iii)safety reviews including trends reviews, which would be conducted during introduction and deployment of new technologies, change or implementation of procedures, or in situations of structural change in operations;
  - (iv) safety audits focussing on the integrity of the Organisation's management system, and periodically assessing the status of safety risk controls; and

- (v) safety surveys, examining particular elements or procedures of a specific operation, such as problem areas or bottlenecks in daily operations, perceptions and opinions of operational personnel and areas of dissent or confusion.
- (e) The management of change

The Organisation should manage safety risks related to a change. The management of change should be a documented process to identify external and internal change that may have an adverse effect on safety. It should make use of the Organisation's existing hazard identification, risk assessment and mitigation processes.

(f) Continuous improvement

The Organisation should continuously seek to improve its safety performance. Continuous improvement should be achieved through:

- (1) proactive and reactive evaluations of facilities, equipment, documentation and procedures through safety audits and surveys;
- (2) proactive evaluation of individuals' performance to verify the fulfilment of their safety responsibilities; and
- (3) reactive evaluations in order to verify the effectiveness of the system for control and mitigation of risk.

(g) The emergency response plan (ERP)

- (1) An ERP should be established that provides the actions to be taken by the Organisation or specified individuals in an emergency. The ERP should reflect the size, nature and complexity of the activities performed by the Organisation.
- (2) The ERP should ensure:
  - (i) an orderly and safe transition from normal to emergency operations;
  - (ii) safe continuation of operations or return to normal operations as soon as practicable; and
  - (iii)coordination with the emergency response plans of other Organisations, where appropriate.

#### GM1 ORA.GEN.200(a)(3) Management system

#### INTERNAL OCCURRENCE REPORTING SCHEME

(a) The overall purpose of the scheme is to use reported information to improve the level of safety performance of the Organisation and not to attribute blame.

- (b) The objectives of the scheme are to:
  - (i) enable an assessment to be made of the safety implications of each relevant incident and accident, including previous similar occurrences, so that any necessary action can be initiated; and
  - (ii) ensure that knowledge of relevant incidents and accidents is disseminated, so that other persons and Organisations may learn from them.
- (c) The scheme is an essential part of the overall monitoring function and it is complementary to the normal day-to-day procedures and 'control' systems and is not intended to duplicate or supersede any of them. The scheme is a tool to identify those instances where routine procedures have failed.
- (d) All occurrence reports judged reportable by the person submitting the report should be retained as the significance of such reports may only become obvious at a later date.

# GM 4 ORA.GEN.200(A)(3) Management system

Safety Risk Assessment – Risk Register

The results of the assessment of the potential adverse consequences or outcome of each hazard may be recorded by an ATO in a risk register, an example of which is provided below.

# AMC1 ORA.GEN.200(a)(4) Management system

# TRAINING AND COMMUNICATION ON SAFETY

- (a) Training
  - (1) All personnel should receive safety training as appropriate for their safety responsibilities.
  - (2) Adequate records of all safety training provided should be kept.

# (b) Communication

(1) The Organisation should establish communication about safety matters that:

- (i) ensures that all personnel are aware of the safety management activities as appropriate for their safety responsibilities;
- (ii) conveys safety critical information, especially relating to assessed risks and analysed hazards;

(iii) explains why particular actions are taken; and

(iv) explains why safety procedures are introduced or changed.

(2) Regular meetings with personnel where information, actions and procedures are discussed, may be used to communicate the safety matters

# GM1 ORA.GEN.200(a)(4) Management system

# TRAINING AND COMMUNICATION ON SAFETY

The safety training programme may consist of self-instruction via a media (newsletters, flight safety magazines), class-room training, e-learning or similar training provided by training service providers.

# AMC1 ORA.GEN.200(a)(5) Management system

# TRAINING AND COMMUNICATION ON SAFETY

- (a) The Organisation's management system documentation should at least include the following information:
  - (1) a statement signed by the accountable manager to confirm that the Organisation will continuously work in accordance with the applicable requirements and the Organisation's documentation as required by this Part;
  - (2) the Organisation's scope of activities;
  - (3) the titles and names of persons referred to in ORA.GEN.210 (a) and (b);
  - (4) an Organisation chart showing the lines of responsibility between the persons referred to in ORA.GEN.210;
  - (5) a general description and location of the facilities referred to in ORA.GEN.215;
  - (6) procedures specifying how the Organisation ensures compliance with the applicable requirements;
  - (7) the amendment procedure for the Organisation's management system documentation.

(b) The Organisation's management system documentation may be included in a separate manual or in (one of) the manual(s) as required by the applicable Subpart(s). A cross reference should be included.

#### GM1 ORA.GEN.200(a)(5) Management system

#### ORGANISATION'S MANAGEMENT SYSTEM DOCUMENTATION

- (a) It is not required to duplicate information in several manuals. The information may be contained in any of the Organisation manuals (e.g. operations manual, training manual), which may also be combined.
- (b) The Organisation may also choose to document some of the information required to be documented in separate documents (e.g. procedures). In this case, it should ensure that manuals contain adequate references to any document kept separately. Any such documents are then to be considered an integral part of the Organisation's management system documentation.

#### AMC1 ORA.GEN.200(a)(5) Management system

# **COMPLEX ORGANISATIONS – ORGANISATION'S SAFETY MANAGEMENT MANUAL**

- (a) The safety management manual (SMM) should be the key instrument for communicating the approach to safety for the whole of the Organisation. The SMM should document all aspects of safety management, including the safety policy, objectives, procedures and individual safety responsibilities.
- (b) The contents of the safety management manual should include all of the following:
  - (1) scope of the safety management system;
  - (2) safety policy and objectives;
  - (3) safety accountability of the accountable manager;
  - (4) safety responsibilities of key safety personnel;
  - (5) documentation control procedures;
  - (6) hazard identification and risk management schemes;
  - (7) safety action planning;
  - (8) safety performance monitoring;
  - (9) incident investigation and reporting;
  - (10) emergency response planning;
  - (11) management of change (including Organisational changes with regard to safety responsibilities);
  - (12) safety promotion.

(c) The SMM may be contained in (one of) the manual(s) of the Organisation.

#### AMC1 ORA.GEN.200(a)(6) Management system

#### **COMPLIANCE MONITORING - GENERAL**

(a) Compliance monitoring

The implementation and use of a compliance monitoring function should enable the Organisation to monitor compliance with the relevant requirements of this Part and other applicable Parts.

- (1) The Organisation should specify the basic structure of the compliance monitoring function applicable to the activities conducted.
- (2) The compliance monitoring function should be structured according to the size of the Organisation and the complexity of the activities to be monitored.

(b) Organisations should monitor compliance with the procedures they have designed to ensure safe activities. In doing so, they should as a minimum, and where appropriate, monitor:

- (1) privileges of the Organisation;
- (2) manuals, logs, and records;
- (3) training standards;
- (4) management system procedures and manuals.
- (c) Organisational set up
  - (1) To ensure that the Organisation continues to meet the requirements of this Part and other applicable Parts, the accountable manager should designate a compliance monitoring manager. The role of the compliance monitoring manager is to ensure that the activities of the Organisation are monitored for compliance with the applicable regulatory requirements, and any additional requirements as established by the Organisation, and that these activities are being carried out properly under the supervision of the relevant head of functional area.
  - (2) The compliance monitoring manager should be responsible for ensuring that the compliance monitoring programme is properly implemented, maintained and continually reviewed and improved.
  - (3) The compliance monitoring manager should:
    - (i) have direct access to the accountable manager;
    - (ii) not be one of the other persons referred to in ORA.GEN.210 (b);

- (iii)be able to demonstrate relevant knowledge, background and appropriate experience related to the activities of the Organisation; including knowledge and experience in compliance monitoring; and
- (iv) have access to all parts of the Organisation, and as necessary, any contracted Organisation.
- (4) In the case of a non-complex Organisation, this task may be exercised by the accountable manager provided he/she has demonstrated having the related competence as defined in (c)(3)(iii).
- (5) In the case the same person acts as compliance monitoring manager and as safety manager, the accountable manager, with regards to his/her direct accountability for safety, should ensure that sufficient resources are allocated to both functions, taking into account the size of the Organisation and the nature and complexity of its activities.
- (6) The independence of the compliance monitoring function should be established by ensuring that audits and inspections are carried out by personnel not responsible for the function, procedure or products being audited.

(7) Compliance monitoring documentation

- (1) Relevant documentation should include the relevant part(s) of the Organisation's management system documentation.
- (2) In addition, relevant documentation should also include the following:
  - (i) terminology;
  - (ii) specified activity standards;
  - (iii) a description of the Organisation;
  - (iv) the allocation of duties and responsibilities;
  - (v) procedures to ensure regulatory compliance;
  - (vi) the compliance monitoring programme, reflecting:
    - (a) schedule of the monitoring programme;
    - (b) audit procedures;
    - (c) reporting procedures;
    - (d) follow-up and corrective action procedures; and
    - (e) recording system.
  - (vii) the training syllabus referred to in (e)(2);
  - (viii) document control.

#### (e) Training

(1) Correct and thorough training is essential to optimise compliance in every Organisation. In order to achieve significant outcomes of such training, the Organisation should ensure that all personnel understand the objectives as laid down in the Organisation's management system documentation.

- (2) Those responsible for managing the compliance monitoring function should receive training on this task. Such training should cover the requirements of compliance monitoring, manuals and procedures related to the task, audit techniques, reporting and recording.
- (3) Time should be provided to train all personnel involved in compliance management and for briefing the remainder of the personnel.
- (4) The allocation of time and resources should be governed by the volume and complexity of the activities concerned.

# GM1 ORA.GEN.200(a)(6) Management system

# **COMPLIANCE MONITORING – GENERAL**

- (a) The Organisational set-up of the compliance monitoring function should reflect the size of the Organisation and the nature and complexity of its activities. The compliance monitoring manager may perform all audits and inspections himself/herself or appoint one or more auditors by choosing personnel having the related competence as defined in AMC1 ORA.GEN.200(a)(6) point (c)(3)(iii), either from within or outside the Organisation.
- (b) Regardless of the option chosen it must be ensured that the independence of the audit function is not affected, in particular in cases where those performing the audit or inspection are also responsible for other functions within the Organisation.
- (c) In case external personnel are used to perform compliance audits or inspections:
  - (1) any such audits or inspections are performed under the responsibility of the compliance monitoring manager; and
  - (2) the Organisation remains responsible to ensure that the external personnel has relevant knowledge, background and experience as appropriate to the activities being audited or inspected; including knowledge and experience in compliance monitoring.
- (d) The Organisation retains the ultimate responsibility for the effectiveness of the compliance monitoring function in particular for the effective implementation and follow-up of all corrective actions.

GM2 ORA.GEN.200(a)(6) Management system

# COMPLEX ORGANISATIONS - COMPLIANCE MONITORING PROGRAMME FOR ATOs

- (a) Typical subject areas for compliance monitoring audits and inspections for approved training Organisations (ATOs) should be the following:
  - (1) facilities;
  - (2) actual flight and ground training;
  - (3) technical standards.
- (b) ATOs should monitor compliance with the training and operations manuals they have designed to ensure safe and efficient training. In doing so, they should, where appropriate, additionally monitor the following:
  - (1) training procedures;
  - (2) flight safety;
  - (3) flight and duty time limitations, rest requirements and scheduling;
  - (4) aircraft maintenance/operations interface.

#### GM3 ORA.GEN.200(a)(6) Management system

#### AUDIT AND INSPECTION

- (a) 'Audit' means a systematic, independent and documented process for obtaining evidence and evaluating it objectively to determine the extent to which requirements are complied with.
- (b) 'Inspection' means an independent documented conformity evaluation by observation and judgement accompanied as appropriate by measurement, testing or gauging, in order to verify compliance with applicable requirements.

# AMC1 ORA.GEN.200(b) Management system

# SIZE, NATURE AND COMPLEXITY OF THE ACTIVITY

(a) An Organisation should be considered as complex when it has a workforce of more than 20 full time equivalents (FTEs) involved in the activity subject to Regulations and its Implementing Rules.

- (b) Organisations with up to 20 full time equivalents (FTEs) involved in the activity subject to Regulation (EC) No 216/2008 and its Implementing Rules, may also be considered complex based on an assessment of the following factors:
  - (1) in terms of complexity, the extent and scope of contracted activities subject to the approval;
  - (2) in terms of risk criteria, whether any of the following are present:
    - (i) operations requiring the following specific approvals: performance-based navigation (PBN), low visibility operation (LVO), extended range operations with two-engined aeroplanes (ETOPS), helicopter hoist operation (HHO), helicopter emergency medical service (HEMS), night vision imaging system (NVIS) and dangerous goods (DG);
    - (ii) different types of aircraft used;
    - (iii) the environment (offshore, mountainous area etc.);
- (c) Regardless of the criteria mentioned in (a) and (b), the following Organisations should always be considered as non-complex:
  - (1) Approved Training Organisations (ATOs) only providing training for the private pilot licence (PPL) or balloon pilot licence (BPL) and the associated ratings and certificates;
  - (2) Aero-Medical Centres (AeMCs).

# AMC1 ORA.GEN.200(c) Management system

ATOS PROVIDING TRAINING ONLY FOR THE, PPL AND BPL AND THE ASSOCIATED RATINGS OR CERTIFICATES — ORGANISATIONAL REVIEW

- (a) The primary objective of the Organisational review is to enable the Organisation to ensure that its management system remains effective by verifying that it:
  - (1) has continually identified its aviation safety hazards;
  - (2) has effectively mitigated the associated risks; and
  - (3) monitors compliance with the applicable requirements.
- (b) Safety risk management should:
  - (1) be performed using internal safety or occurrence reports, hazard checklists, risk registers or similar risk management tools or processes, integrated into the activities of the Organisation;
  - (2) in particular address safety risks related to a change; making use of the existing hazard identification, risk assessment and mitigation tools or processes; and
  - (3) include provisions for emergency response or a formal Emergency Response Plan (ERP).
- (c) As part of the management system documentation required by ORA.GEN.200 (a)(5), the Organisation should describe the Organisational review programme and related responsibilities. Persons responsible for the Organisational review should have a thorough knowledge of the applicable requirements and of the Organisation's procedures.

- (d) The status of all corrective and risk mitigation actions should be monitored by the person responsible for the Organisational review programme and implemented within a specified time frame. Action closure should be recorded by the person responsible for the Organisational review programme, along with a summary of the action taken.
- (e) The results of the Organisational review, including all non-compliance findings and new risks identified during the review, should be presented to the accountable manager and the person or group of persons nominated in accordance with ORA.GEN.210 (b) prior to notification to the DGCA Sri Lanka. All level 1 findings in the sense of ARA.GEN.350 should be immediately notified to the DGCA Sri Lanka and all necessary actions immediately taken.
- (f) Based on the results of the Organisational review, the accountable manager should determine the need for and initiate, as appropriate, further actions to address deficiencies in or further improve the Organisation's management system.

# GM1 ORA.GEN.200(c) Management system

SAFETY POLICY ATOS PROVIDING TRAINING ONLY FOR THE PPL OR BPL AND THE ASSOCIATED RATINGS OR CERTIFICATES — ORGANISATIONAL REVIEW PROGRAMME

- (a) The Organisational review programme may consist of:
  - (1) Checklist covering all items necessary to be addressed in order to ensure that the Organisation identified its aviation safety hazards, effectively mitigates the associated risks and ensures effective compliance with the applicable requirements. These should address all procedures described in the management system documentation and training manual; and
  - (2) a schedule for the accomplishment of the different checklist items, with each item being checked at least once within any 12-month period. The Organisation may choose to conduct one full review annually or to conduct several partial reviews.
- (b) Performance of Organisational reviews:

Each review item may be addressed using an appropriate combination of:

- (1) review of training records, training documentation;
- (2) review of internal safety reports (e.g. notified difficulties in using current procedures and training material, etc.);
- (3) review of the risk register and hazard checklists, as applicable;
- (4) sample check of training courses;
- (5) witnessing of examinations, as appropriate;
- (6) interview of the personnel involved; and
- (7) review of the feedback provided by students and customers.
- (c) It is recommended that internal safety reports and occurrence reports be reviewed on a continual basis with the aim of identifying possible corrective and risk mitigation actions.

#### GM2 ORA.GEN.200(c) Management system

ATOS PROVIDING TRAINING ONLY FOR THE PPL OR BPL AND THE ASSOCIATED RATINGS OR CERTIFICATES — ORGANISATIONAL REVIEW ITEMS

The following provides a list of typical items for an Organisational review checklist, to be adapted as necessary to cover all relevant procedures described in the management system documentation and training manual:

(a) Terms of approval

Check that:

- (1) no training has been performed outside the terms of approval;
- (2) changes not requiring prior approval have been properly managed.
- (b) Training syllabi and course material

Check that:

- (1) training syllabi and course materials are in compliance with the applicable requirements, as last amended;
- (2) training practices are in compliance with the documentation; and
- (3) instructor training practices are standardised.
- (c) Training equipment and tools Check that all equipment and tools other than aircraft and FSTDs are present and meet the criteria defined in the training manual.

#### (d) Facilities

Check that the facilities meet the criteria defined in the training manual.

#### (e) Training aircraft and FSTDs

Check that the training aircraft and FSTDs meet the criteria defined in the training manual.

#### (f) Personnel

Check that:

- (1) the current accountable manager and other nominated persons are correctly identified;
- (2) the Organisation chart accurately indicates lines of responsibility and accountability throughout the Organisation;
- (3) the Organisation remains in compliance with the applicable requirements, in case the number of personnel has decreased or if the activity has increased;
- (4) the qualification of all new personnel (or personnel with new functions) has been appropriately assessed;
- (5) staff involved in any safety management-related processes and tasks has been properly trained; and

- (6) staff has been trained, as necessary, to cover changes in regulations, in DGCA Sri Lanka publications, in the Organisation, its management system documentation and in associated procedures, etc.
- (g) Contracted activities (In case the Organisation has contracted activities):
  - (1) Check that new providers have been assessed prior to the establishment of any contract;
  - (2) For existing providers approved for such activities: check the authorisation and approval status of the contracted Organisation; and
  - (3) For existing providers not approved for such activities: check that the service provided conforms to the applicable requirements of this Part.
  - (h) Training and communication on safety Check that:
    - (1) all personnel are aware of safety management policies, processes and tasks;
    - (2) safety-related documentations and publications are available; and
    - (3) safety-critical information derived from internal safety or occurrence reporting and hazard identification have been timely communicated to all staff concerned.
- (i) Management system documentation

# Check that:

- (1) the documentation is adequate and updated;
- (2) staff are aware of the safety policy; and
- (3) staff can easily access such documentation when needed.
- (j) Record-keeping

Check that:

- (1) the records cover all the training activities and management system processes; and
- (2) minimum record-keeping periods (random checks) are complied with.
- (k) Emergency response provisions or ERP Check that:
  - (1) emergency response information is up to date and readily available; and
  - (2) all staff are aware of emergency response information or the ERP, as applicable (random checks).
- (1) Internal safety or occurrence reporting procedures
  - (1) Check the number of reports received since the last review;
  - (2) Check that:
    - (i) internal reporting and external occurrence reporting are performed in accordance with reporting procedures;
    - (ii) the safety or occurrence reports are analysed; and
    - (iii)feedback is provided to reporters.
- (m) Other risk management tools or processes implemented

(1) As applicable, check that:

- (i) records of hazards and risks are assessed; in particular following analysis of safety or occurrence reports and when significant changes occur (regulations, personnel, training aircraft, training courses, etc.);
- (ii) the risks are assessed and the risk mitigation actions followed-up and recorded;(iii)any risk that has been found acceptable is duly justified; and
- (iv) the assumptions made for the risk assessment remain valid;
- (2) Verify the effectiveness of all risk mitigation actions initiated since the last Organisational review.

# **ORA.GEN.205** Contracted activities

- (a) Contracted activities include all activities within the Organisation's scope of approval that are performed by another Organisation either itself certified to carry out such activity or if not certified, working under the contracting Organisation's approval. The Organisation shall ensure that when contracting or purchasing any part of its activity, the contracted or purchased service or product conforms to the applicable requirements.
- (b) When the certified Organisation contracts any part of its activity to an Organisation that is not itself certified in accordance with this Part to carry out such activity, the contracted Organisation shall work under the approval of the contracting Organisation. The contracting Organisation shall ensure that the DGCA Sri Lanka is given access to the contracted Organisation, to determine continued compliance with the applicable requirements.

# AMC1 ORA.GEN.205 Contracted activities

# **RESPONSIBILITY WHEN CONTRACTING ACTIVITIES**

- (a) The Organisation may decide to contract certain activities to external Organisations.
- (b) A written agreement should exist between the Organisation and the contracted Organisation clearly defining the contracted activities and the applicable requirements.
- (c) The contracted safety related activities relevant to the agreement should be included in the Organisation's safety management and compliance monitoring programmes.
- (d) The Organisation should ensure that the contracted Organisation has the necessary authorisation or approval when required, and commands the resources and competence to undertake the task.

#### GM1 ORA.GEN.205 Contracted activities

#### **RESPONSIBILITY WHEN CONTRACTING ACTIVITIES**

- (a) Regardless of the approval status of the contracted Organisation, the contracting Organisation is responsible to ensure that all contracted activities are subject to hazard identification and risk management as required by ORA.GEN.200 (a)(3) and to compliance monitoring as required by ORA.GEN.200 (a)(6).
- (b) When the contracted Organisation is itself certified to carry out the contracted activities, the Organisation's compliance monitoring should at least check that the approval effectively covers the contracted activities and that it is still valid.
- (c) If the Organisation requires the contracted Organisation to conduct an activity which exceeds the contracted Organisation's terms of approval, this will be considered as the contracted Organisation working under the approval of the contracting Organisation.

# **ORA.GEN.210** Personnel requirements

- (a) The Organisation shall appoint an accountable manager, who has the authority for ensuring that all activities can be financed and carried out in accordance with the applicable requirements. The accountable manager shall be responsible for establishing and maintaining an effective management system.
- (b) A person or group of persons shall be nominated by the Organisation, with the responsibility of ensuring that the Organisation remains in compliance with the applicable requirements. Such person(s) shall be ultimately responsible to the accountable manager.
- (c) The Organisation shall have sufficient qualified personnel for the planned tasks and activities to be performed in accordance with the applicable requirements.
- (d) The Organisation shall maintain appropriate experience, qualification and training records to show compliance with paragraph (c).
- (e) The Organisation shall ensure that all personnel are aware of the rules and procedures relevant to the exercise of their duties.

# **ORA.GEN.215** Facility requirements

The Organisation shall have facilities allowing the performance and management of all planned tasks and activities in accordance with the applicable requirements.

# AMC1 ORA.GEN.215 Facility requirements

ATOS PROVIDING TRAINING FOR the CPL, MPL AND ATPL AND THE ASSOCIATED RATINGS AND CERTIFICATES:

- (a) For ATOs providing flight training, the following flight operations accommodation should be available:
  - (1) an operations room with facilities to control flying operations;
  - (2) a flight planning room with the following facilities:
    - (i) appropriate current maps and charts;
    - (ii) current aeronautical information service (AIS) information;
    - (iii)current meteorological information;
    - (iv) communications to air traffic control (ATC) and the operations room;
    - (v) any other flight safety related material.
  - (3) adequate briefing rooms/cubicles of sufficient size and number;
  - (4) suitable offices for the supervisory personnel and room(s) to allow flight instructors to write reports on students, complete records and other related documentation;
  - (5) furnished crew-room(s) for instructors and students.
- (b) For ATOs providing theoretical knowledge training, the following facilities for theoretical knowledge instruction should be available:
  - (1) adequate classroom accommodation for the current student population;
  - (2) suitable demonstration equipment to support the theoretical knowledge instruction;
  - (3) a radiotelephony training and testing facility;
  - (4) a reference library containing publications giving coverage of the syllabus;
  - (5) offices for the instructional personnel

# **AMC2 ORA.GEN.215 Facility requirements**

# ATOS PROVIDING TRAINING FOR THE PPL OR BPL AND THE ASSOCIATED RATINGS AND CERTIFICATES

(a) The following flight operations accommodation should be available:

(1) a flight planning room with the following facilities:

(i) appropriate current aviation maps and charts;

(ii) current AIS information;

(iii)current meteorological information;

- (iv) communications to ATC (if applicable);
- (v) any other flight safety related material.

(2) adequate briefing room(s)/cubicles of sufficient size and number;

- (3) suitable office(s) to allow flight instructors to write reports on students, complete records and other related documentation;
- (4) suitable rest areas for instructors and students, where appropriate to the training task;

- (5) in the case of ATOs providing training for the BPL only, the flight operations accommodation listed in (a)(1) to (a)(4) may be replaced by other suitable facilities when operating outside aerodromes.
- (b) The following facilities for theoretical knowledge instruction should be available:
  - (1) adequate classroom accommodation for the current student population;
  - (2) suitable demonstration equipment to support the theoretical knowledge instruction;
  - (3) suitable office(s) for the instructional personnel.
- (c) A single room may be sufficient to provide the functions listed in (a) and (b).

# **ORA.GEN.220** Record-keeping

- (a) The Organisation shall establish a system of record–keeping that allows adequate storage and reliable traceability of all activities developed, covering in particular all the elements indicated in ORA.GEN.200.
- (b) The format of the records shall be specified in the Organisation's procedures.
- (c) Records shall be stored in a manner that ensures protection from damage, alteration and theft

# AMC1 ORA.GEN.220(b) Record-keeping

# GENERAL

- (a) The record-keeping system should ensure that all records are accessible whenever needed within a reasonable time. These records should be organized in a way that ensures traceability and retrieve ability throughout the required retention period.
- (b) Records should be kept in paper form or in electronic format or a combination of both. Records stored on microfilm or optical disc format are also acceptable. The records should remain legible throughout the required retention period. The retention period starts when the record has been created or last amended.
- (c) Paper systems should use robust material which can withstand normal handling and filing. Computer systems should have at least one backup system which should be updated within 24 hours of any new entry. Computer systems should include safeguards against the ability of unauthorized personnel to alter the data.

(d) All computer hardware used to ensure data backup should be stored in a different location from that containing the working data and in an environment that ensures they remain in good condition. When hardware or software changes take place, special care should be taken that all necessary data continues to be accessible at least through the full period specified in the relevant Subpart. In the absence of such indication, all records should be kept for a minimum period of 5 years.

# GM1 ORA.GEN.220(b) Record-keeping

# RECORDS

Microfilming or optical storage of records may be carried out at any time. The records should be as legible as the original record and remain so for the required retention period.

## **SUBPART ATO**

## APPROVED TRAINING ORGANISATIONS

## **SECTION I**

## General

## **ORA.ATO.100 Scope**

This Subpart establishes the requirements to be met by Organisations providing training for pilot licences and associated ratings and certificates.

## GM1 ORA.ATO.100 Scope

The content of this Section contains the requirements applicable to all ATOs providing training for pilot licences and the associated ratings and certificates. It is applicable to ATOs providing training for:

- (a) the PPL and BPL and the associated ratings and certificates; and
- (b) the commercial pilot licence (CPL), multi-crew pilot licence (MPL) and airline transport pilot licence (ATPL) and the associated ratings and certificates.

## **ORA.ATO.105** Application

- (a) Applicants for the issue of a certificate as an approved training Organisation (ATO) shall provide the DGCA Sri Lanka with:
  - 1. the following information:
    - (i) name and address of the training Organisation;
    - (ii) date of intended commencement of activity;
    - (iii) personal details and qualifications of the head of training (HT), the flight instructor(s), flight simulation training instructors and the theoretical knowledge instructor(s);
    - (iv) name(s) and address(es) of the aerodromes(s) and/or operating site(s) at which the training is to be conducted;
    - (v) list of aircraft to be operated for training, including their group, class or type, registration, owners and category of the certificate of airworthiness, if applicable
    - (vi) list of flight simulation training devices (FSTDs) that the training Organisation intends to use, if applicable;
    - (vii) the type of training that the training Organisation wishes to provide and the corresponding training programme; and
  - 2. the Training and Procedure manuals.
- (b) In the case of a change to the certificate, applicants shall provide the DGCA Sri Lanka with the relevant parts of the information and documentation referred to in (a).

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## AMC1 ORA.ATO.105 Application

## APPLICATION FORM

#### APPLICATION FORM FOR AN ATO CERTIFICATE

N <sup>0</sup>	Question	Supplementary information
1.	Name of training Organisation under which the activity is to take place	address, fax number, e-mail, URL
2.	Training courses offered	theory and/or flight training
3.	Name of head of training	type and number of licence full/part-time
4.	Name of chief flight instructor	as (3)
5.	Name of chief theoretical knowledge instructor	as (3)
6.	Name of flight instructor(s), where applicable	as (3)
7.	Aerodrome(s) / operating site(s) to be used	IFR approaches, if applicable night flying, if applicable air traffic control flight testing facilities, if applicable data reply facilities, if applicable
8.	Flight operations accommodation	location, number and size of rooms
9.	Theoretical instruction facilities	location, number and size of rooms
10.	Description of training devices (as applicable)	FFS, FNPT I, II and III, FTD 1, 2 and 3, and 3, and BITD
11.	Description of aircraft	Class/type(s) of aircraft registration of aircraft IFR equipped, if applicable Flight test instrumentation, if applicable
12.	Proposed administration and manuals : (submit with application if required )	<ul> <li>(a) course programmes</li> <li>(b) training records</li> <li>(c) operations manual</li> <li>(d) training manual</li> </ul>
13	Details of proposed compliance monitoring system	

Note 1: If answers to any of the above questions are incomplete, the applicant should provide full details of alternative arrangements separately.

Note 2: instrument flight rules (IFR), full flight simulator (FFS), flight and navigation procedures trainer (FNPT), flight training device (FTD), basic instrument training device (BITD)

I, (name), on behalf of (name of training Organisation) certify that all the above named persons are in compliance with the applicable requirements and that all the above information given is complete and correct.

(Date) (Signature)

## **ORA.ATO.110** Personnel requirements

- (a) An HT shall be nominated. The HT shall have extensive experience as an instructor in the areas relevant for the training provided by the ATO and shall possess sound managerial capability.
- (b) The HT's responsibilities shall include:
  - (1) (1) ensuring that the training provided is in compliance with the applicable regulations and the training programme have been established;
  - (2) ensuring the satisfactory integration of flight training in an aircraft or a flight simulation training device (FSTD) and theoretical knowledge instruction; and
  - (3) supervising the progress of individual students.
- (c) Theoretical knowledge instructors shall have:
  - (1) practical background in aviation in the areas relevant for the training provided and have undergone a course of training in instructional techniques; or
  - (2) previous experience in giving theoretical knowledge instruction and an appropriate theoretical background in the subject on which they will provide theoretical knowledge instruction.
- (d) Flight instructors and flight simulation training instructors shall hold the qualifications required for the type of training that they are providing.

# AMC1 ORA.ATO.110(b) Personnel requirements

## HEAD OF TRAINING

The nominated head of training (HT) should have the overall responsibility to ensure that the training is in compliance with the appropriate requirements. In an ATO providing training courses for different aircraft categories, the HT shall be assisted by one or more nominated deputy HT(s) for certain flight training courses.

# AMC1 ORA.ATO.110(c) Personnel requirements

# THEORETICAL KNOWLEDGE INSTRUCTORS

Theoretical knowledge instructors should, before appointment, prove their competency by giving a test lecture based on material they have developed for the subjects they are to teach.

## **ORA.ATO.120 Record-keeping**

The following records shall be kept for a period of at least 3 years after the completion of the training:

- (a) details of ground, flight, and simulated flight training given to individual students;
- (b) detailed and regular progress reports from instructors including assessments, and regular progress flight tests and ground examinations; and
- (c) information on the licences and associated ratings and certificates of the students, including the expiry dates of medical certificates and ratings.

## **ORA.ATO.125** Training programme

- (a) A training programme shall be developed for each type of course offered.
- (b) The training programme shall comply with the requirements established by DGCA Sri Lanka.

## AMC1 ORA.ATO.120(a);(b) Record-keeping

# ATOS PROVIDING TRAINING ONLY FOR THE PPL OR BPL AND THE ASSOCIATED RATINGS AND CERTIFICATES

The details of ground, flight and flight instruction by using FSTD given to a specific individual student and the detailed progress reports from instructors may be kept also in a student's progress card. This progress card should contain all the exercises of the training syllabus. The instructor should sign this card if a certain exercise has been completed or a specific assessment has been conducted.

## AMC1 ORA.ATO.125 Training programme

## GENERAL

Flight training in an FSTD and theoretical knowledge instruction should be phased in such a manner as to ensure that students are able to apply to flight exercises the knowledge gained on the ground. Arrangements should be made so that problems encountered during instruction can be resolved during subsequent training.

# AMC2 ORA.ATO.125 Training programme

# **TYPE RATING COURSES – AEROPLANES**

## (a) Introduction

- (1) When developing the training programme for a type rating course, in addition to complying with the standards included in the operational suitability data (OSD), as established in accordance with applicable Regulations published by DGCA, Sri Lanka for the applicable type, the ATO should also follow any further recommendations contained therein.
- (2) The type rating course should, as far as possible, provide for a continual process of ground, FSTD and flight training to enable the student to assimilate the knowledge and skills required to operate a specific aircraft type safely and efficiently. The student's ability to do this should be determined by the demonstration of a satisfactory level of theoretical knowledge of the aircraft determined by progressive checking of knowledge and examination, progressive assessment by the ATO during flight training and the successful completion of a practical skill test with an examiner.
- (3) The type rating course should normally be conducted as a single, fulltime course of study and training. However, in the situation where the course is intended to enable a pilot to fly a further aircraft type while continuing to fly a current type, such as to enable mixed fleet flying with the same operator, some elements of the theoretical knowledge course conducted by self-study may be undertaken while the student continues to fly the current type.

# (b) Variants

- (1) Familiarisation training: Where an aeroplane type rating also includes variants of the same aircraft type requiring familiarisation training, the additional familiarisation training may be included in the theoretical knowledge training of the initial type rating course. Flight training should be conducted on a single variant within the type.
- (2) Differences training: Where an aeroplane type rating also includes variants of the same aircraft type for which difference training is required, the initial training course should be directed towards a single variant. Additional training to operate other variants within the same type rating should be completed after successful completion of the initial type rating course. However, elements of this differences training may be undertaken at appropriate stages of the initial course, with the agreement of the DGCA Sri Lanka.
- (c) Programme of theoretical knowledge and flight training
  - (1) The training programme should specify the time allocated to theoretical knowledge training, FSTD training and, if not approved for zero flight-time training (ZFTT), the aeroplane. The initial type rating course should be programmed on the basis that the student has the

minimum licensing and experience requirements for entry to the course. For a first type rating on a multi-pilot aeroplane (MPA), the course should also provide for consolidation and type-specific training in those elements of basic multi-crew cooperation (MCC) training relevant to the type or variant.

- (2) If the ATO wishes to provide a training course that includes credit for previous experience on similar types of aircraft, such as those with common systems or operating procedures with the new type, the entry requirements to such courses should be specified by the ATO and should define the minimum level of experience and qualification required of the flight crew member.
- (3) The ATO is permitted to contract elements of training to a third party training provider. In such cases the contracted Organisation should normally be approved to conduct such training. When the contracted Organisation is not an ATO, the DGCA Sri Lanka should, within the approval process of the ATO, include the contracted Organisation and be satisfied that the standard of training intended to be given meets the requirements. The other obligations of the ATO, such as student progress monitoring and an adequate management system, can be exercised by the ATO seeking approval and which retains responsibility for the whole course.

# **GROUND TRAINING**

(d) Syllabus

The ground training syllabus should provide for the student to gain a thorough understanding of the operation, function and, if appropriate, abnormal and emergency operation of all aircraft systems. This training should also include those systems essential to the operation of the aircraft, such as 'fly-by-wire' flight control systems, even if the flight crew have little or no control of their normal or abnormal operation.

(e) Theoretical knowledge instruction

The theoretical knowledge instruction training should meet the general objectives of (but not be limited to) giving the student:

- (1) a thorough knowledge of the aircraft structure, powerplant and systems, and their associated limitations, including mass and balance, aircraft performance and flight planning considerations;
- (2) a knowledge of the positioning and operation of the cockpit controls and indicators for the aircraft and its systems;
- (3) an understanding of system malfunctions, their effect on aircraft operations and interaction with other systems; and
- (4) the understanding of normal, abnormal and emergency procedures.

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(f) Facilities and training aids

The ATO should provide adequate facilities for classroom instruction and have available appropriately qualified and experienced instructors. Training aids should enable students to gain practical experience of the operation of systems covered by the theoretical knowledge syllabus and, in the case of multi-pilot aeroplanes, enable such practical application of the knowledge to be carried out in a multi-crew environment. Facilities should be made available for student selfstudy outside the formal training programme.

(g) Computer-based training (CBT)

CBT provides a valuable source of theoretical instruction, enabling the students to progress at their own pace within specified time limits. Many such systems ensure that syllabus subjects are fully covered and progress can be denied until a satisfactory assimilation of knowledge has been demonstrated. Such systems may allow self-study or distance learning, if they incorporate adequate knowledge testing procedures. When CBT is used as part of the theoretical knowledge instruction phase, the student should also have access to a suitably qualified instructor able to assist with areas of difficulty for the student.

- (h) Self-study and distance learning Elements of the theoretical knowledge syllabus may be adequately addressed by distance learning, if approved, or self-study, particularly when utilising CBT. Progress testing, either by self-assessed or instructor-evaluated means should be included in any self-study programme. If self-study or distance learning is included in the theoretical knowledge training, the course should also provide for an adequate period of supervised consolidation and knowledge testing.
- (i) Progress tests and final theoretical knowledge examination
  - (1) The theoretical knowledge training programme should provide for progressive testing of the assimilation of the required knowledge. This testing process should also provide for retesting of syllabus items so that a thorough understanding of the required knowledge is assured. This should be achieved by intervention by a qualified instructor or, if using CBT with a self-testing facility, and by further testing during the supervised consolidation phase of the ground course.
  - (2) The final theoretical knowledge examination should cover all areas of the theoretical knowledge syllabus. The final examination should be conducted as a supervised written (including computer-based) knowledge test without reference to course material. The pass mark of 75% assumes the achievement of satisfactory levels of knowledge during the progressive phase tests of the course. The student should be advised of any areas of lack of knowledge displayed during the examination and, if necessary, given remedial instruction. A successful pass of the theoretical knowledge course and final examination should be a prerequisite for progression to the flight training phase of the type rating course, unless otherwise determined in the OSD established in accordance with Applicable Regulations.

# FLIGHT TRAINING

- (j) Flight simulation training devices (FSTDs) A type rating course for a multi-pilot aeroplane should include FSTD training. The amount of training required when using FSTDs will depend on the complexity of the aeroplane concerned, and to some extent on the previous experience of the pilot. Except for those courses giving credit for previous experience (c.2.), a minimum of 32 hours of FSTD training should be programmed for a crew of a multipilot aeroplane, of which at least 16 hours should be in an FFS operating as a crew. FFS time may be reduced if other qualified FSTDs used during the flight training programme accurately replicate the cockpit environment, operation and aeroplane response. Such FSTDs may typically include flight management computer (FMC) training devices using hardware and computer programmes identical to those of the aeroplane.
- (k) Aeroplane training with FFS
  - (1) with the exception of courses approved for ZFTT, certain training exercises normally involving take-off and landing in various configurations should be completed in the aeroplane rather than an FFS. For MPAs where the student pilot has more than 500 hours of MPA experience in aeroplanes of similar size and performance, these should include at least four landings of which at least one should be a full-stop landing, unless otherwise specified in the OSD established in accordance with Applicable Regulations, when available. In all other cases the student should complete at least six landings. This aeroplane training may be completed after the student pilot has completed the FSTD training and has successfully undertaken the type rating skill test, provided it does not exceed 2 hours of the flight training course.
  - (2) courses approved for ZFTT

During the specific simulator session before line flying under supervision (LIFUS), consideration should be given to varying conditions, for example:

- (i) runway surface conditions;
- (ii) runway length;
- (iii)flap setting;

(iv) power setting;

- (v) crosswind and turbulence conditions; and
- (vi) maximum take-off mass (MTOM) and maximum landing mass (MLM).
- (3) the landings should be conducted as full-stop landings. The session should be flown in normal operation.

Special attention should be given to the taxiing technique:

- (i) training methodology should be agreed with the DGCA Sri Lanka that ensures the trainee is fully competent with the exterior inspection of the aeroplane before conducting such an inspection un-supervised;
- (ii) the LIFUS should be performed as soon as possible after the specific FFS session;
- (iii) the licence endorsement should be entered on the licence after the skill test, but before the first four take-offs and landings in the aeroplane. At the discretion of the DGCA Sri Lanka, provisional or temporary endorsement and any restriction should be entered on the licence.

Where a specific arrangement exists between the ATO and the commercial air transport operator, the operator proficiency check (OPC) and the ZFTT specific details should be conducted using the operator's standard operating procedures (SOPs).

- (l) Aeroplane without FFS
  - (1) Flight training conducted solely in an aeroplane without the use of FSTDs cannot cover the crew resource management (CRM) and multicrew cockpit (MCC) aspects of MPA flight training, and for safety reasons cannot cover all emergency and abnormal aircraft operation required for the training and skill test. In such cases, the ATO should demonstrate to the DGCA Sri Lanka that adequate training in these aspects can be achieved by other means. For training conducted solely on an MPA where two pilots are trained together without the use of an FSTD, a minimum of 8 hours of flight training as pilot flying (PF) for each pilot should normally be required. For training on a single-pilot aeroplane, 10 hours of flight training should normally be required. It is accepted that for some relatively simple single or multi-engine aircraft without systems such as pressurisation, flight management system (FMS) or electronic cockpit displays, this minimum may be reduced.
  - (2) Aeroplane training normally involves an inherent delay in achieving an acceptable flight situation and configuration for training to be carried out in accordance with the agreed syllabus. These could include ATC or other traffic delay on the ground prior to take-off, the necessity to climb to height or transit to suitable training areas and the unavoidable need to physically reposition the aircraft for subsequent or repeat manoeuvres or instrument approaches. In such cases it should be ensured that the training syllabus provides adequate flexibility to enable the minimum amount of required flight training to be carried out.

# SKILL TEST

(m)Upon completion of the flight training, the pilot will be required to undergo a skill test with an examiner to demonstrate adequate competency of aircraft operation for issue of the type rating. The skill test should be separate from the flight training syllabus, and provision for it cannot be included in the minimum requirements or training hours of the agreed flight training programme. The skill test may be conducted in an FFS, the aeroplane or, in exceptional circumstances, a combination of both.

# COURSE COMPLETION CERTIFICATE

(n) The HT, or a nominated representative, should certify that all training has been carried out before an applicant undertakes a skill test for the type rating to be included in the pilot's licence. If an ATO is unable to provide certain elements of the training that is required to be carried out on an aircraft the ATO may issue such a certificate confirming the completion of the ground training or the training in an FSTD.

# AMC3 ORA.ATO.125 Training programme

# **TYPE RATING COURSES – HELICOPTERS**

- (a) Introduction
  - (1) when developing the training programme for a type rating course, in addition to complying with the standards included in the OSD as established in accordance with applicable Regulations for the applicable type, the ATO should also follow any further recommendations contained therein.
  - (2) the course should, as far as possible, provide for integrated ground, FSTD and flight training designated to enable the student to operate safely and qualify for the grant of a type rating. The course should be directed towards a helicopter type, but where variants exist, all flying and ground training forming the basis of the course should relate to a single variant.

# (b) Variants

- (1) Familiarisation training: where a helicopter type rating also includes variants of the same aircraft type requiring familiarisation training, the additional familiarisation training may be included in the theoretical knowledge training of the initial type rating course.
- (2) Differences training: where a helicopter type rating also includes variants of the same aircraft type for which difference training is required, the initial training course should be directed towards a single variant. Additional training to operate other variants within the same type rating should be completed after successful completion of the initial type rating course, although elements of this differences training may be undertaken at appropriate stages of the initial course, with the agreement of the DGCA Sri Lanka
- (c) Training in helicopter and FSTDs

The training programme should specify the amounts of flight training in the helicopter type and in FSTDs (FFSs, flight training devices (FTDs), or other training devices (OTDs)). Where a suitable

FFS is geographically remote from the normal training base, the DGCA Sri Lanka may agree to some additional training being included in the programme at a remote facility.

(d) Skill test

The content of the flight training programme should be directed towards the skill test for that type. The practical training given in Part-FCL should be modified as necessary. The skill test maybe completed in a helicopter, in an FFS or partially in a helicopter and in an FSTD. The use of an FSTD for skill tests is governed by the level of approval of the flight simulator and the previous experience of the candidate. Where an FSTD is not available, abnormal operations of systems should not be practised in a helicopter other than as allowed for in the skill test form for the type.

- (e) Phase progress tests and final theoretical knowledge examination Prior to the final theoretical knowledge examination covering the whole syllabus, the training programme should provide for phase progress tests associated with each phase of theoretical knowledge instruction. The phase progress tests should assess the candidate's knowledge on completion of each phase of the training programme.
- (f) Facilities:

ground school equipment, training facilities and aids The ATO should provide, as a minimum, facilities for classroom instruction. Additional classroom training aids and equipment including, where appropriate, computers, should reflect the content of the course and the complexity of the helicopter. For multi-engine and multi-pilot helicopters, the minimum level of ground training aids should include equipment that provides a realistic cockpit working environment. Task analysis and the latest state-of-the-art training technology is encouraged and should be fully incorporated into the training facilities wherever possible. Facilities for self and supervised testing should be available to the student.

(g) Training devices

An FTD or OTD may be provided to supplement classroom training in order to enable students to practice and consolidate theoretical instruction. Where suitable equipment is not available, or is not appropriate, a helicopter or flight simulator of the relevant variant should be available. If an FTD represents a different variant of the same helicopter type for which the student is being trained, then differences or familiarisation training is required.

(h) Computer-based training (CBT)

Where CBT aids are used as a training tool, the ATO should ensure that a fully qualified ground instructor is available at all times when such equipment is being used by course students. Other than for revision periods, CBT lessons should be briefed and debriefed by a qualified ground instructor.

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(i) Theoretical knowledge instruction

The theoretical knowledge instruction training should meet the general objectives of giving the student:

- (1) a thorough knowledge of the helicopter structure, transmissions, rotors and equipment, powerplant and systems, and their associated limitations;
- (2) a knowledge of the positioning and operation of the cockpit controls and indicators for the helicopter and its systems;
- (3) a knowledge of performance, flight planning and monitoring, mass and balance, servicing and optional equipment items;
- (4) an understanding of system malfunctions, their effect on helicopter operations and interaction with other systems; and
- (5) the understanding of normal, abnormal and emergency procedures and giving the student the understanding of potential control problems near the edge of the handling envelope. In particular, the phenomenon of 'servo transparency' (also known as 'jack stall') should be covered for those helicopter types where it is a known problem.

The amount of time and the contents of the theoretical instruction will depend on the complexity of the helicopter type involved and, to some extent, on the previous experience of the student.

- (j) Flight training
  - (1) FSTDs

The level of qualification and the complexity of the type will determine the amount of practical training that may be accomplished in an FSTD, including completion of the skill test. Prior to undertaking the skill test, a student should demonstrate competency in the skill test items during the practical training.

(2) Helicopter (with FSTD)

With the exception of courses approved for ZFTT, the amount of flight time in a helicopter should be adequate for completion of the skill test.

(3) Helicopters (without FSTD)

Whenever a helicopter is used for training, the amount of flight time practical training should be adequate for the completion of the skill test. The amount of flight training will depend on the complexity of the helicopter type involved and, to some extent, on the previous experience of the applicant.

# AMC4 ORA.ATO.125 Training programme

## FLIGHT TEST TRAINING COURSES – AEROPLANES AND HELICOPTERS

## (a) Introduction

- (1) The flight test training course should, as far as possible, provide for a continuous process of ground and flight training to enable the student to assimilate the knowledge and skills required to conduct flight testing safely and efficiently. The student's ability to do this should be determined by the demonstration of a satisfactory level of theoretical knowledge of flight testing determined by progressive checking of knowledge and examination and progressive assessment by the ATO during flying training. There should be no difference in the level of knowledge or competency required of the student, irrespective of the intended role of the student as test pilot or other flight test personnel (for example, flight test engineer) within the flight crew.
- (2) The flight test training course should normally be conducted as a single, full-time course of study and training.
- (b) Programme of theoretical knowledge and flight training
  - (1) The training programme should specify the time allocated to theoretical knowledge training and flying training.
  - (2) If the ATO wishes to provide a flight test training course that includes credit for previous experience on flight testing activity, the entry requirements to such courses should be specified by the ATO and should define the minimum level of experience and qualification required of the flight test crew member.

## GROUND TRAINING

- (c) Syllabus
  - (1) The ground training syllabus should provide for the student to gain a thorough understanding of flight testing techniques.
- (d) Theoretical knowledge instruction
  - (1) The theoretical knowledge instruction training should give the student a thorough knowledge of the academic requirements of flight testing.
- (e) Facilities and training aids
  - (1) The ATO should provide adequate facilities for classroom instruction and have available appropriately qualified and experienced instructors. Training aids should enable students to

gain practical experience of flight testing covered by the theoretical knowledge syllabus and enable such practical application of the knowledge to be carried out in a multi-crew environment. Facilities should be made available for student self-study outside the formal training programme.

- (f) Computer-based training (CBT)
  - (1) CBT provides a valuable source of theoretical instruction, enabling the student to progress at his/her own pace within specified time limits. Many such systems ensure that syllabus subjects are fully covered and progress can be denied until a satisfactory assimilation of knowledge has been demonstrated. Such systems may allow self-study or distance learning, if they incorporate adequate knowledge testing procedures. When CBT is used as part of the theoretical knowledge instruction phase, the student should also have access to a suitably qualified instructor able to assist with areas of difficulty for the student.
- (g) Self-study and distance learning
  - (1) Elements of the theoretical knowledge syllabus may be adequately addressed by distance learning, if approved, or self-study, particularly when utilising CBT. Progress testing, either by self-assessed or instructor-evaluated means, should be included in any self-study programme. If self-study or distance learning is included in the theoretical knowledge training, the course should also provide for an adequate period of supervised consolidation and knowledge testing prior to the commencement of flight training.
- (h) Progress tests and final theoretical knowledge examination
  - (1) The theoretical knowledge training programme should provide for progressive testing of the assimilation of the required knowledge. This testing process should also provide for retesting of syllabus items so that a thorough understanding of the required knowledge is assured. This should be achieved by intervention by a qualified instructor or, if using CBT with a self-testing facility, and by further testing during the supervised consolidation phase of the ground course.
  - (2) The theoretical knowledge examinations should cover all areas of the theoretical knowledge syllabus. The examinations should be conducted as supervised written or oral knowledge tests without reference to course material. The pass mark (as defined by the ATO) assumes the achievement of satisfactory levels of knowledge during the progressive phase tests of the course. The student should be advised of any areas of lack of knowledge displayed during the examination and, if necessary, given remedial instruction.

## FLIGHT TRAINING

- (i) Aeroplane and helicopter training
  - (1) It is widely accepted that flying training normally involves inherent delay in achieving an acceptable flight situation and configuration for training to be carried out in accordance with

the agreed syllabus. These could include ATC or other traffic delay on the ground prior to take off, the necessity to climb to height or transit to suitable training areas and the unavoidable need to physically reposition the aircraft for subsequent or repeat manoeuvres or instrument approaches. In such cases it should be ensured that the training syllabus provides adequate flexibility to enable the minimum amount of required flight training to be carried out.

## FINAL IN-FLIGHT EXERCISE

(j) Upon completion of the flight test training, the test pilot or flight test engineer will be required to undergo in-flight exercise with a flight test instructor (FTI) to demonstrate adequate competency of flight testing for issue of the flight test rating. The final in-flight exercise must be conducted in an appropriate aeroplane or helicopter (as applicable).

## COURSE COMPLETION CERTIFICATE

(k) The HT is required to certify that the applicant has successfully completed the training course.

## **ORA.ATO.130** Training and Procedure manual

- (a) The ATO shall establish and maintain a training and procedure manual containing information and instructions to enable personnel to perform their duties and to give guidance to students on how to comply with course requirements.
- (b) The ATO shall make available to staff and, where appropriate, to students the information contained in the training and procedure manual and the ATO's approval documentation.
- (c) In the case of ATOs providing flight test training, the operations manual shall comply with the requirements for the flight test operations manual as established in applicable regulations.
- (d) The Training and Procedures operations manual shall establish flight time limitation schemes for flight instructors, including the maximum flying hours, maximum flying duty hours and minimum rest time between instructional duties in accordance with applicable regulations.

## **ORA.ATO.135** Training aircraft and FSTDs

- (a) The ATO shall use an adequate fleet of training aircraft or FSTDs appropriate to the courses of training provided.
- (b) The ATO shall only provide training in FSTDs when it demonstrates to the DGCA-Sri Lanka:
- (c) If the aircraft used for the skill test is of a different type to the FFS used for the visual flight training, the maximum credit shall be limited to that allocated for flight and navigation procedures trainer II (FNPT II) for aeroplanes and FNPT II/III for helicopters in the relevant flight training programme.

(d) Flight test training organistions. Aircraft use for flight test training shall be appropriately equipped with flight testing instrumentation, according to the purpose of the training.

# AMC1 ORA.ATO.135 Training aircraft and FSTDs

# ALL ATOS, EXCEPT THOSE PROVIDING FLIGHT TEST TRAINING

- (a) The number of training aircraft may be affected by the availability of FSTDs.
- (b) Each training aircraft should be:
  - (1) equipped as required in the training specifications concerning the course in which it is used;
  - (2) except in the case of balloons or single-seat aircraft, fitted with primary flight controls that are instantly accessible by both the student and the instructor (for example dual flight controls or a centre control stick). Swing-over flight controls should not be used.
- (c) The fleet should include, as appropriate to the courses of training:
  - aircraft suitably equipped to simulate instrument meteorological conditions (IMC) and for the instrument flight training required. For flight training and testing for the instrument rating and the en-route instrument rating (EIR), an adequate number of IFR certificated aircraft should be available;
  - (2) in the case of aeroplanes, aircraft suitable for demonstrating stalling and spin avoidance;
  - (3) for the flight instructor (FI) training courses on aeroplanes, aircraft suitable for spin recovery at the developed stage;
  - (4) in the case of helicopters, helicopters suitable for autorotation demonstration;
  - (5) in the case of a non-complex ATO, one aircraft fulfilling all the required characteristics for a training aircraft might be sufficient;
  - (6) each FSTD should be equipped as required in the training specifications concerning the course in which it is used.

## **ORA.ATO.140** Aerodromes and operating sites

When providing flight training on an aircraft, the ATO shall use aerodromes or operating sites that have the appropriate facilities and characteristics to allow training of the manoeuvres relevant, taking into account the training provided and the category and type of aircraft used.

## AMC1 ORA.ATO.140 Aerodromes and operating sites

# GENERAL

- (a) Except in the case of balloons, the base aerodrome or operating site and any alternative base aerodromes at which flight training is being conducted should have at least the following facilities:
  - (1) at least one runway or final approach and take-off area (FATO) that allows training aircraft to make a normal take-off or landing within the performance limits of all the aircraft used for the training flights.
  - (2) a wind direction indicator that is visible at ground level from the ends of each runway or at the appropriate holding points;
  - (3) adequate runway electrical lighting if used for night training;
  - (4) an air traffic service, except for uncontrolled aerodromes or operating sites where the training requirements may be satisfied safely by another acceptable means of air-to ground communication.
- (b) Except in the case of ATOs providing flight test training, in addition to (a), for helicopters, training sites should be available for:
  - (1) confined area operation training;
  - (2) simulated engine off autorotation; and
  - (3) sloping ground operation.
- (c) In the case of balloons, the take-off sites used by the ATO should allow a normal take-off and clearing of all obstacles in the take-off flight path by at least 50 ft.

## **ORA.ATO.145** Pre-requisites for training

- (a) The ATO shall ensure that the students meet all the pre-requisites for training established in Part-Medical, Part- FCL, and, if applicable, as defined in the mandatory part of the operational suitability data established in accordance with applicable Regulations.
- (b) In the case of ATOs providing flight test training, the students shall meet all the pre-requisites for training established in accordance with applicable Regulations.

## AMC1 ORA.ATO.145 Pre-requisites for training

## ENTRANCE REQUIREMENTS

ATOs providing training for other than the PPL or BPL and the associated ratings and certificates should establish entrance requirements for students in their procedures. The entrance requirements should ensure that the students have enough knowledge, particularly of physics and mathematics, to be able to follow the courses.

## **ORA.ATO.150** Training in third countries

When the ATO is approved to provide training for the instrument rating (IR) in third countries:

- (a) the training programme shall include acclimatisation flying in one of the Member States before the IR skill test is taken; and
- (b) the IR skill test shall be taken in one of the Member States.

# **SECTION II**

# Additional requirements for ATOs providing training for CPL, MPL and ATPL and the associated ratings and certificate

## **ORA.ATO.210** Personnel requirements

- (a) Head of training (HT). The nominated HT shall have extensive experience in training as an instructor for professional pilot licences and associated ratings or certificates.
- (b) Chief flight instructor (CFI). The ATO providing flight instruction shall nominate a CFI who shall be responsible for the supervision of flight and flight simulation training instructors and for the standardisation of all flight instruction and flight simulation instruction. The CFI shall hold the highest professional pilot licence and associated ratings related to the flight training courses conducted and hold an instructor certificate with the privilege to instruct for at least one of the training courses provided.
- (c) Chief theoretical knowledge instructor (CTKI). The ATO providing theoretical knowledge instruction shall nominate a CTKI who shall be responsible for the supervision of all theoretical knowledge instructors and for the standardisation of all theoretical knowledge instructor instruction. The CTKI shall have extensive experience as a theoretical knowledge instructor in the areas relevant for the training provided by the ATO.

# AMC1 ORA.ATO.210 Personnel requirements

# GENERAL

- (a) The management structure should ensure supervision of all grades of personnel by persons having the experience and qualities necessary to ensure the maintenance of high standards. Details of the management structure, indicating individual responsibilities, should be included in the ATOs operations manual.
- (b) The ATO should demonstrate to the DGCA, Sri Lanka that an adequate number of qualified, competent staff is employed.
- (c) In the case of an ATO offering integrated courses, the HT, the chief flying instructor (CFI) and the chief theoretical knowledge instructor (CTKI) should be employed full-time or part-time, depending upon the scope of training offered.
- (d) In the case of an ATO offering only one of the following: (1) modular courses,
  - (2) type rating courses,

- (3) theoretical knowledge instruction, the positions of HT, CFI and CTKI may be combined and filled by one or two persons with extensive experience in the training conducted by the training Organisation, full-time or part-time, depending upon the scope of training offered.
- (e) The ratio of all students to flight instructors, excluding the HT, should not exceed 6:1.
- (f) Class numbers in ground subjects involving a high degree of supervision or practical work should not exceed 28 students.

# THEORETICAL KNOWLEDGE INSTRUCTORS

- (g) The theoretical knowledge instruction for type or class ratings should be conducted by instructors holding the appropriate type or class rating, or having appropriate experience in aviation and knowledge of the aircraft concerned.
- (h) For this purpose, a flight engineer, a maintenance engineer or a flight operations officer should be considered as having appropriate experience in aviation and knowledge of the aircraft concerned.

# AMC2 ORA.ATO.210 Personnel requirements

# QUALIFICATION OF HEAD OF TRAINING AND CHIEF FLIGHT INSTRUCTOR

(a) Head of training (HT)

The nominated HT should hold or have held in the 3 years prior to first appointment as HT, a professional pilot licence and associated ratings or certificates issued in accordance with Part-FCL, related to the flight training courses provided.

- (c) Chief flight instructor (CFI)
  - (1) The CFI may delegate standardisation and supervision to the flight instructors. In all cases it is the CFI who is ultimately responsible for ensuring quality and standards.
  - (2) The CFI should, except in the case of ATOs providing flight test training, have completed 1000 hours of flight time as pilot-in-command (PIC). At least 500 of those hours should be on flying instructional duties related to the flying courses provided, of which 200 hours may be instrument ground time.

## **ORA.ATO.225** Training programme

- (a) The training programme shall include a breakdown of flight and theoretical knowledge instruction, presented in a week-by-week or phase layout, a list of standard exercises and a syllabus summary.
- (b) The content and sequence of the training programme shall be specified in the training and procedures manual.

## **ORA.ATO.230** Training and procedures manual

- (a) The training and procedures manual shall state the standards, objectives and training goals for each phase of training that the students are required to comply with and shall address the following subjects: - training plan, - briefing and air exercises, - flight training in an FSTD, if applicable, - theoretical knowledge instruction.
- (b) The training and procedures manual shall provide relevant information to particular groups of personnel, as flight instructors, flight simulation training instructors, theoretical knowledge instructors, operations and maintenance personnel, and shall include general, technical, route and staff training information.

## AMC1 ORA.ATO.230(a) Training manual and procedure manual

TRAINING MANUAL

Training manuals for use at an ATO conducting integrated or modular flight training courses should include the following: (a) The training plan:

(1) The aim of the course (ATP,	A statement of what the student is expected to do as a result of
	-
CPL/IR, CPL, etc. as	the training, the level of performance, and the training
applicable)	constraints to be observed.
(2) Pre-entry requirements	(i) Minimum age, educational requirements (including
	language), medical requirements;
	(ii) Any individual Member State requirements.
(3) Credits for previous	To be obtained from the DGCA Sri Lanka before training
experience	begins.
(4) Training syllabi	As applicable, the flying syllabus (single-engine or multi-
	engine, as applicable), the flight simulation training syllabus
	and the theoretical knowledge training syllabus.
(5) The time scale and scale, in	Arrangements of the course and the integration of syllabi time.
weeks, for each syllabus	

(6) Training programme	<ul> <li>(i) The general arrangements of daily and weekly programmes for flying, theoretical knowledge training and training in FSTDs, if applicable;</li> <li>(ii) Bad weather constraints;</li> <li>(iii) Programme constraints in terms of maximum student training times, (flying, theoretical knowledge, on FSTDs), for example per day, week or month;</li> <li>(iv) Restrictions in respect of duty periods for students;</li> <li>(v) Duration of dual and solo flights at various stages;</li> <li>(vi) Maximum flying hours in any day or night;</li> <li>(vii) Maximum number of training flights in any day or night;</li> <li>(viii) Minimum rest period between duty periods.</li> </ul>
(7) Training records	<ul> <li>(i) Rules for security of records and documents;</li> <li>(ii) Attendance records;</li> <li>(iii) The form of training records to be kept;</li> <li>(iv) Persons responsible for checking records and students' log books;</li> <li>(v) The nature and frequency of record checks;</li> <li>(vi) Standardisation of entries in training records;</li> <li>(vii) Rules concerning log book entries.</li> </ul>
(8) Safety training	<ul> <li>(i) Individual responsibilities;</li> <li>(ii) Essential exercises;</li> <li>(iii) Emergency drills (frequency);</li> <li>(iv) Dual checks (frequency at various stages);</li> <li>(v) Requirement before first solo day, night or navigation etc. if applicable</li> </ul>
(9) Tests and examinations	<ul> <li>(i) Flying:</li> <li>(A) progress checks;</li> <li>(B) skill tests.</li> <li>(ii) Theoretical knowledge:</li> <li>(A) progress tests;</li> <li>(B) theoretical knowledge examinations.</li> <li>(iii) Authorisation for test;</li> <li>(iv) Rules concerning refresher training before retest;</li> <li>(v) Test reports and records;</li> <li>(vi) Procedures for examination paper preparation, type of question and assessment, standard required for 'pass';</li> <li>(vii) Procedure for question analysis and review and for raising replacement papers;</li> <li>(viii) Examination re-sit procedures.</li> </ul>
(10) Training effectiveness	(i) Individual responsibilities;

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[	(ii) General assessment;
	(iii) Liaison between departments;
	(iv) Identification of unsatisfactory progress (individual students);
	(v) Actions to correct unsatisfactory progress;
	(vi) Procedure for changing instructors;
	(vii) Maximum number of instructor changes per student;
	(viii) Internal feedback system for detecting training
	deficiencies;
	(ix) Procedure for suspending a student from training;
	(x) Discipline;
	(xi) Reporting and documentation.
(11) Standards and level of	(i) Individual responsibilities;
performance at various stages	(ii) Standardisation;
	(iii) Standardisation requirements and procedures;
	(iv) Application of test criteria.
(b) Briefing and air exercises:	
(1) Air exercise	A detailed statement of the content specification of all the air
	exercises to be taught, arranged in the sequence to be flown with
	main and subtitles.
(2) Air exercise reference list	An abbreviated list of the above exercises giving only main and
	subtitles for quick reference, and preferably in flip-card form to
	facilitate daily use by instructors.
(3) Course structure: phase of	A statement of how the course will be divided into phases,
training	indication of how the above air exercises will be divided
	between the phases and how they will be arranged to ensure that
	they are completed in the most suitable learning sequence and
	that essential (emergency) exercises are repeated at the correct
	frequency. Also, the syllabus hours for each phase and for
	groups of exercises within each phase should be stated and
	when progress tests are to be conducted, etc.
(4) Course structure: integration	The manner in which theoretical knowledge and flight training
of syllabi	in an aircraft or an FSTD will be integrated so that as the flying
	training exercises are carried out students will be able to apply
	the knowledge gained from the associated theoretical
	knowledge instruction and flight training.
(5) Student progress	The requirement for student progress and include a brief but
	specific statement of what a student is expected to be able to do
	and the standard of proficiency he/she must achieve before
	progressing from one phase of air exercise training to the next.
	Include minimum experience requirements in terms of hours,

	satisfactory exercise completion, etc. as necessary before
	significant exercises, for example night flying.
(6) Instructional methods	The ATO requirements, particularly in respect of pre- and post-
	flying briefing, adherence to syllabi and training specifications,
	authorisation of solo flights, etc.
(7) Progress tests	The instructions given to examining staff in respect of the
	conduct and documentation of all progress tests.
(8) Glossary of terms	Definition of significant terms as necessary.
(9) Appendices	(i) Progress test report forms;
	(ii) Skill test report forms;
	(iii) ATO certificates of experience, competence, etc. as
	required.

(c) Flight training in an FSTD, if applicable:

Structure generally as for (b)

# (d) Theoretical knowledge instruction:

(d) Theoretical knowledge instruction.		
(1) Structure of the theoretical	A statement of the structure of the course, including the general	
knowledge course	sequence of the topics to be taught in each subject, the time	
	allocated to each topic, the breakdown per subject and an	
	example of a course schedule. Distance learning courses should	
	include instructions of the material to be studied for individual	
	elements of the course.	
(2) Lesson plans	A description of each lesson or group of lessons including	
	teaching materials, training aids, progress test Organisation and	
	inter-connection of topics with other subjects.	
(3) Teaching materials	Specification of the training aids to be used (for example study	
	materials, course manual references, exercises, self-study	
	materials, demonstration equipment).	
(4) Student progress	The requirement for student progress, including a brief but	
	specific statement of the standard that must be achieved and the	
	mechanism for achieving this, before application for theoretical	
	knowledge examinations.	
(5) Progress testing	The Organisation of progress testing in each subject, including	
	topics covered, evaluation methods and documentation.	
(6) Review procedure	The procedure to be followed if the standard required at any	
	stage of the course is not achieved, including an agreed action	
	plan with remedial training if required.	

AMC1 ORA.ATO.230(b) Training manual and procedure manual

# ALL ATOS, EXCEPT THOSE PROVIDING FLIGHT TEST TRAINING OPERATIONS MANUAL

The operations manual for use at an ATO conducting integrated or modular flight training courses should include the following:

(a) General:

- 1. a list and description of all volumes in the operations manual;
- 2. administration (function and management);
- 3. responsibilities (all management and administrative staff);
- 4. student discipline and disciplinary action;
- 5. approval or authorisation of flights;
- 6. preparation of flying programme (restriction of numbers of aircraft in poor weather);
- 7. command of aircraft;
- 8. responsibilities of the PIC;
- 9. carriage of passengers;
- 10. aircraft documentation;
- 11. retention of documents;
- 12. flight crew qualification records (licences and ratings);
- 13. revalidation (medical certificates and ratings);
- 14. flight duty period and flight time limitations (flying instructors);
- 15. flight duty period and flight time limitations (students);
- 16. rest periods (flight instructors);
- 17. rest periods (students);
- 18. pilots' log books;
- 19. flight planning (general);
- 20. safety (general): equipment, radio listening watch, hazards, accidents and incidents including reports), safety pilots etc..

## (b) Technical:

- (1) aircraft descriptive notes;
- (2) aircraft handling (including checklists, limitations, maintenance and technical logs, in accordance with relevant requirements, etc.);
- (3) emergency procedures;
- (4) radio and radio navigation aids;
- (5) allowable deficiencies (based on the master minimum equipment list (MMEL), if available).

(c) Route:

(1) performance (legislation, take-off, route, landing etc.);

(2) flight planning (fuel, oil, minimum safe altitude, navigation equipment etc.);

(3) loading (load sheets, mass, balance and limitations);

(4) weather minima (flying instructors);

(5) weather minima (students – at various stages of training);

(6) training routes or areas.

(d) Personnel training

(1) appointments of persons responsible for standards/competence of flight personnel;

(2) initial training;

(3) refresher training;

(4) standardisation training;

(5) proficiency checks;

(6) upgrading training;

(7) ATO personnel standards evaluation.

# **SECTION III**

# Additional requirements for ATOs providing specific types of training

## Chapter 1

## **Distance Learning Course**

## **ORA.ATO.300** General

The ATO may be approved to conduct modular course programmes using distance learning in the following cases:

- (a) modular courses of theoretical knowledge instruction;
- (b) courses of additional theoretical knowledge for a class or type rating; or
- (c) courses of approved pre-entry theoretical knowledge instruction for a first type rating for a multiengined helicopter.

## AMC1 ORA.ATO.300 General

## **DISTANCE LEARNING**

- (a) A variety of methods is open to ATOs to present course material. It is, however, necessary for ATOs to maintain comprehensive records in order to ensure that students make satisfactory academic progress and meet the time constraints laid down in Part-FCL for the completion of modular courses.
- (b) The following are given as planning guidelines for ATOs developing the distance learning element of modular courses:
  - (1) an assumption that a student will study for at least 15 hours per week;
  - (2) an indication throughout the course material of what constitutes a week's study;
  - (3) a recommended course structure and order of teaching;
  - (4) one progress test for each subject for every 15 hours of study, which should be submitted to the ATO for assessment. Additional self-assessed progress tests should be completed at intervals of five to 10 study hours;
  - (5) appropriate contact times throughout the course when a student can have access to an instructor by telephone, fax, email or the Internet;
  - (6) measurement criteria to determine whether a student has satisfactorily completed the appropriate elements of the course to a standard that, in the judgement of the HT, or CGI,

will enable them to be entered for the Part-FCL theoretical examinations with a good prospect of success;

(7) if the ATO provides the distance learning by help of IT solutions, for example the Internet, instructors should monitor students' progress by appropriate means.

## **ORA.ATO.305** Classroom instruction

- (a) An element of classroom instruction shall be included in all subjects of modular distance learning courses.
- (b) The amount of time spent in actual classroom instruction shall not be less than 10 % of the total duration of the course.
- (c) To this effect, classroom accommodation shall be available either at the principal place of business of the ATO or within a suitable facility elsewhere.

## **ORA.ATO.310** Instructors

All instructors shall be fully familiar with the requirements of the distance learning course programme.

## Chapter 2

## Zero Flight-Time Training

## **ORA.ATO.330 General**

- (a) Approval for zero flight-time training (ZFTT), shall only be given to ATOs that also have the privileges to conduct commercial air transport operations or ATOs having specific arrangements with commercial air transport operators.
- (b) Approval for ZFTT shall only be given if the operator has at least 90 days of operational experience on the aeroplane type.
- (c) In the case of ZFTT provided by an ATO having a specific arrangement with an operator, the 90 days of operational experience requirements will not apply if the type rating instructor (TRI(A)) involved in the additional take-offs and landings, as required, has operational experience on the aeroplane type.

## AMC1 ORA.ATO.330 General

## INITIAL APPROVAL

For an initial approval to conduct ZFTT, the operator should have held an air operator's certificate for commercial air transport for at least 1 year. This period may be reduced where the operator and the ATO have experience of type rating training.

## **ORA.ATO.335** Full flight simulator

- (a) The FFS approved for ZFTT shall be serviceable according to the management system criteria of the ATO.
- (b) The motion and the visual system of the FFS shall be fully serviceable, in accordance with the applicable certification specifications for FSTD as mentioned in ORA.FSTD.205.

## Chapter 3

## Multi-crew pilot licence (MPL) courses

## **ORA.ATO.350** General

The privileges to conduct MPL integrated training courses and MPL instructor courses shall only be given to the ATO if it also has the privilege to conduct commercial air transport operations or a specific arrangement with a commercial air transport operator.

## Chapter 4

## Flight test training

## **ORA.ATO.355** Flight test training Organisations

- (a) The ATO that has been approved to provide flight test training for the issue of a category 1 or 2 flight test rating in accordance with Part-FCL may have its privileges extended to providing training for other categories of flight tests and other categories of flight test personnel, provided that:
  - (1) the relevant requirements of applicable regulations are met; and
  - (2) a specific arrangement exists between the ATO and the Part-21 Organisation that employs, or intends to employ, such personnel.
- (b) The training records shall include the written reports by the student, as required by the training programme, including, where applicable, data processing and analysis of recorded parameters relevant to the type of flight test.

### SUBPART FSTD

# REQUIREMENTS FOR ORGANISATIONS OPERATING FLIGHT SIMULATION TRAINING DEVICES (FSTDs) AND THE QUALIFICATION OF FSTDS

## **SECTION I**

#### **Requirements for Organisations operating FSTDs**

#### **ORA.FSTD.100 General**

- (a) The applicant for an FSTD qualification certificate shall demonstrate to the DGCA Sri Lanka that it has established a management system in accordance with ORA.GEN Section II. This demonstration shall ensure that the applicant has, directly or through contract, the capability to maintain the performance, functions and other characteristics specified for the FSTD's qualification level and to control the installation of the FSTD.
- (b) If the applicant is the holder of a qualification certificate issued in accordance with this Part, the FSTD specifications shall be detailed:
  - (1) in the terms of the ATO certificate; or
  - (2) in the case of an AOC holder, in the training manual.

## AMC1 ORA.FSTD.100 General

## **COMPLIANCE MONITORING PROGRAMME – ORGANISATIONS OPERATING FSTDs**

- (a) Introduction.
  - (1) The purpose of this AMC is to provide additional and specific information to an Organisation operating FSTDs on how to establish a compliance monitoring programme (CMP) that enables compliance with the applicable requirements.
- (b) Compliance monitoring programme
  - (1) Typical subject areas for inspections are the following:
    - (i) actual FSTD operation;
    - (ii) maintenance;
    - (iii)technical Standards;
    - (iv)FSTD safety features.
- (c) Audit scope

- (1) Organisations operating FSTDs are required to monitor compliance with the procedures they have designed to ensure specified performance and functions. In doing so they should as a minimum, and where appropriate, monitor the following:
  - (i) Organisation;
  - (ii) plans and objectives;
  - (iii) maintenance procedures;
  - (iv) FSTD qualification level;
  - (v) supervision;
  - (vi) FSTD technical status;
  - (vii) manuals, logs and records;
  - (viii) defect deferral;
  - (ix) personnel training;
  - (x) aircraft modifications;
  - (xi) FSTD configuration management.

# AMC3 ORA.FSTD.100 General

## COMPLIANCE MONITORING PROGRAMME – ORGANISATIONS OPERATING BASIC INSTRUMENT TRAINING DEVICES (BITDs)

- (a)The compliance monitoring programme together with a statement acknowledging completion of a periodic review by the accountable manager should include the following:
  - (1) a maintenance facility that provides suitable BITD hardware and software test and maintenance capability;
  - (2) a recording system in the form of a technical log in which defects, deferred defects and development work are listed, interpreted, actioned and reviewed within a specified time scale; and
  - (3) planned routine maintenance of the BITD and periodic running of the qualification test guide (QTG) with adequate manning to cover BITD operating periods and routine maintenance work.
- (b) A planned audit schedule and a periodic review should be used to verify that corrective action was carried out and that it was effective. The auditor should have adequate knowledge of BITDs.

## **GM1 ORA.FSTD.100 General**

## **COMPLIANCE MONITORING – ORGANISATIONS OPERATING FSTDS – GENERAL**

- (a) The concept of compliance monitoring (CM) is a fundamental requirement for Organisations operating FSTDs. An effective CM function is vitally important in supporting operation of the devices, in a structured way, to ensure they remain in compliance with the technical standards of CS-FSTD(A) and CS-FSTD(H) and continue to be effective training tools. An effective CM function is also essential to support any level of extended recurrent evaluation period as permitted by ORA.FSTD.225(b).
- (b) The following guidance has been developed to provide additional material to help both Organisations operating FSTDs and DGCA Sri Lanka in developing effective CM that satisfy the applicable requirements and ensure the highest standards of training are maintained.
- (c) Additional GM provide a compliance checklist for Organisations operating FSTDs (GM2 ORA.FSTD.100) and guidance detailing the preparation for an evaluation by the DGCA Sri Lanka (GM3 ORA.FSTD.100). The compliance checklist should be used by the DGCA Sri Lanka as a standardised checklist for the elements that are expected in the CM function of an organization operating FSTDs. The Organisation should complete as a minimum the second column of the checklist by providing appropriate manual or procedure references for each of the identified elements of the CM function. Additional information can be provided in the third column to aid assessment of the checklist should assist in ensuring a consistent approach by the DGCA Sri Lanka. Use of this checklist should assist in ensuring a consistent approach by the DGCA Sri Lanka e Organisations operating FSTDs with additional guidance on all the elements of a CM function that the DGCA Sri Lanka will expect. The guidance is provided to help Organisations operating FSTDs to prepare for authority visits.
- (d) The documentation of the CM may be electronic, provided the necessary controls can be demonstrated. This should include control of any paper copies that may be downloaded for use by individuals. It is recommended that any such copies are automatically designated as uncontrolled as part of the download process. Whilst electronic signatures on master documents may be accepted, with appropriate protections, a hardcopy master of the CM manual should be provided, with wetink signatures to be held by the applicant.
- (e) It should be recognised that whatever CM is developed, it will not be effective unless it becomes an integral part of the way in which the Organisation works. It includes both the necessary procedures for maintaining compliance with all the applicable requirements and a compliance monitoring programme (CMP) to monitor the execution of these procedures. A successful CM will ensure that the highest training tool is available at all times. If the CM is viewed as an addon to existing processes it will become a burden and it will never be wholly effective. It should also be noted that compliance control or inspection is only a small part of a CM. If the CM is

working effectively, inspections such as fly outs should become routine revealing little beyond day-to-day unserviceabilities. Systematic defects should be captured by the CMP.

- (f) The DGCA Sri Lanka should be satisfied that the accountable manager is able to adequately provide the required level of resources to properly support the FSTD. Detailed knowledge of FSTD requirement standards are not necessary, only sufficient to understand his/her responsibility for ensuring the FSTD is properly supported. The assessment of the compliance monitoring manager should concentrate on establishing that the nominee has sufficient knowledge and experience of both CM management and FSTD operations to operate a compliance monitoring system (CMS) within an Organisation operating FSTDs. This is likely to require experience of working in the compliance monitoring field and sufficient knowledge of FSTDs and the technical standards with which they should comply.
- (g) If an Organisation operating FSTDs is certified under any international quality standard it should assure that it fully covers the applicable Organisation requirements of Part-ORA and the qualification basis.
- (h) For small Organisations, it is perfectly acceptable to combine the roles of compliance monitoring manager and accountable manager. For other Organisations that hold multiple certificates and may cover multiple sites, it is advantageous to have a common CM function with an overall compliance monitoring manager. However, it is essential, particularly where sites may be significantly separated geographically, that there is a nominated representative at each site and possibly for each certificate. These representatives should hold the delegated responsibility of the CM manager for the day-to-day CM role at their site and in their function and have the necessary direct reporting line to the overall CM manager. It will also be necessary to ensure that local representatives are also acceptable to the DGCA Sri Lanka. In many cases the local representatives may perform other functions in addition to this role. This is acceptable provided the necessary independence of any compliance monitoring activity is maintained.
- (i) CM, as a whole, begins with the requirements with which the system seeks to comply. These include both the technical standards, in this case the relevant parts of CS-FSTD(A)/(H) plus any other specific standards, for example health and safety regulations, and the compliance monitoring objectives, such as defect rates and rectification intervals and FSTD reliability targets. The CM should define the process by which these standards are made available to those who require them.
- (j) The next part of CM is that part which defines the day-to-day procedures or working practices by which the standards will be achieved. These procedures should include as a minimum defect reporting systems, defect rectification processes, tracking mechanisms, preventative maintenance programmes, spares handling, equipment calibration and configuration management of the device. They should include checks to assess the compliance of the performed actions. These procedures and standards should be made readily available to anybody involved in the maintenance and day-today operation of the FSTD.

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- (k) The third part of CM is the method by which the Organisation operating an FSTD confirms the device is maintained in compliance with the defined standards and is being operated in accordance with the defined procedures. This is the compliance monitoring programme (CMP) and includes the audit methods, reporting and corrective action procedures and feedback, management reviews and schedules for audits of all aspects of the FSTD operation.
- (1) Across all aspects of CM, and most important to it, are the people. CM includes the definition of the responsibilities of all staff and should include a declaration of the minimum levels of resource proposed for the direct support of the FSTD plus the levels of support and managerial staff proposed. The levels of resource can be affected by factors such as local health and safety regulations, existence of weekend and/or night usage of the device(s), etc. CM also includes definition of the skills and experience required for staff and leads to definition of any required training programmes. Training needs cover both technical training and audit training, including QTG running and checking and fly-out techniques for flight crew.
- (m)The documentation of CM may be provided in any number of documents provided there are appropriate cross-references in all documents such that the system is fully traceable in both directions from end to end. For all but small Organisations at least two documents would be expected:
  - (1) Firstly, a CM manual containing the policy, terminology, Organisational charts and responsibilities, an overview of all processes, within the system, including those for maintaining regulatory compliance such as QTG running and fly-outs (function and subjective testing), CMP including the audit schedule and audit procedures including reporting and corrective action procedures. In addition, the CM manual should include, either directly or by reference, the identification of skills and experience and associated training.
  - (2) Secondly, a procedures manual containing, as a minimum, software and hardware control procedures, configuration control procedures including, for example, control of training loads, updates to visual models, navigation and instructor operation station (IOS) databases, QTG running and checking procedures, fly-out procedures, maintenance procedures including both defect rectification and preventative maintenance processes. Any standard forms and checklists should also be included.
- (n) The CM documentation also includes all records such as technical logs, QTG runs, fly-out reports and maintenance job cards.
- (o) For Organisations with several certificates, separate and modular procedures manuals with a single CM manual covering all approvals, may be acceptable.
- (p) It is important to understand the difference between compliance assurance and compliance control. An effective CM will contain elements of both. Compliance control is normally done

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by inspection of the product; it provides confirmation at the time of the inspection that the product conforms to a defined standard.

- (q) The compliance assurance element is essential to ensure the standard is maintained throughout the periods between product (FSTD) inspections. Within a CMP, the processes are defined that are necessary to provide confidence that the FSTD(s) is/are being supported and maintained to the highest possible standard and in compliance with the relevant requirements. A programme of internal audits is then set in place to confirm that the processes are being followed and are effective. The DGCA Sri Lanka would normally oversee a certified Organisation by process and system audit, however, in the case of FSTDs, authority oversight includes an inspection element in the form of the recurrent FSTD evaluation.
- (r) In addition to the normal process and system audits, the compliance assurance audit schedule should include the schedule for each FSTD for fly-outs and QTG running through the audit year.
- (s) The audit procedure should include, at least, the following: statement of scope, planning, initiation of audit, collection of evidence, analysis, reporting of findings, identification and agreement of corrective actions and feedback, including reporting significant findings to the DGCA Sri Lanka, where appropriate. The review of published material could include, in addition to the CM and procedures manuals, QTG records, fly-out reports, technical log sheets, maintenance records and configuration control records.
- (t) In addition to basic knowledge of FSTD requirements and operation, it is expected that auditors have received training in CM and audit techniques.
- (u) The routine fly-outs of the device are a specialised part of the audit programme. It is essential that the pilots tasked with carrying out these fly-outs are adequately experienced. They would be expected to be type rating instructor/examiner (TRI/TRE) qualified on the type, and should have experience of simulator evaluations carried out by the DGCA Sri Lanka. The assignment of such pilots can present difficulties, particularly for the independent Organisation operating FSTDs not directly associated with an airline. It is vital for the Organisation to ensure their users are aware of the importance of the fly-outs as part of the continued qualification of the device and the need to assist in the provision of suitably qualified pilots to carry them out. It is worth noting that simulator users are required to satisfy themselves that the training devices they use are assessed for continued suitability, as part of their own CMP. Involvement in fly-outs assists in meeting this need.
- (v) Whilst it is accepted that the number of audits required in an Organisation with a single device will be significantly less than those in larger Organisations with multiple devices, the CMP should still meet the same criteria, and cover all aspects of the operation within a 12 month period. The independence of the audit personnel should be maintained at all times. The audit programme, whether by full audit or by using a checklist system should still be sufficiently comprehensive to provide the necessary level of confidence that the device is maintained and

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operated to the highest possible standard. This includes monitoring and review of corrective actions and feedback processes.

- (w) The successful use of sub-contractors who play a significant role in the provision of services, such as maintenance or engineering services, to an Organisation operating FSTDs is reliant on the sub-contractor operating under the CM of the Organisation. All requirements that an Organisation is expected to meet are equally applicable to his/her sub-contractor. It is the Organisation's responsibility to ensure that the sub-contractor complies with its CM.
- (x) It is essential that a proper understanding of the CM and how it applies to each and every staff member is provided by appropriate training to all, not just those directly involved in operating the CM, such as the accountable manager, the CM manager, representatives and the auditors. The training given to those directly involved in CM should cover the CM, audit techniques and applicable technical standards. CM familiarisation training should be an integral part of any induction training and recurrent training. Update training on technical standards for audit personnel, is also of particular importance.
- (y) Any effective CM will include measurement of its effectiveness. The Organisation should develop performance measures that can be monitored against objectives. Such measures, often referred to as metrics, should be reviewed by the DGCA Sri Lanka as part of its oversight of the CM within the Organisation and during recurrent evaluations. In addition they should form part of the data reviewed during scheduled management reviews as part of the CM.
- (z) Metrics should monitor not only individual FSTD performance but, for larger Organisations, how each FSTD is performing within the fleet. It is also recommended that metrics data be shared, regularly, with the FSTD manufacturers to allow monitoring for generic problems such as design issues, which may be best addressed with a fleet-wide solution.

## GM2 ORA.FSTD.100 General

COMPLIANCE MONITORING - ASSESSMENT FOR ORGANISATIONS OPERATING FSTDs

#### COMPLIANCE MONITORING ASSESSMENT

#### FOR ORGANISATIONS OPERATING FSTDs

Organisation:	
Site Assessed:	
Date of Assessment:	
Accountable Manager:	
<b>Compliance Monitoring Manager:</b>	

Number and Type of FSTDs:			
CM Manual Reference:			
Audit Area	CM/Proc Ref	Comments	Satisfactory Y/N
1. ACCOUNTABLE MANAGER			
Has an accountable manager (AM) with overall responsibility for compliance monitoring (CM) been nominated?			
Does the accountable manager have corporate authority to ensure all necessary activities can be financed and carried out to the standard required by the DGCA Sri Lanka?			
Has a formal written compliance policy statement been established, included in the CM manual and signed by the accountable manager?			
2. COMPLIANCE MONITORING MANA	GER		
Has a compliance monitoring manager (CM manager) been nominated?			
Are the posts of CM manager and AM combined? If so, is the independence of compliance audits assured?			
Does the CM manager have overall responsibility and authority to:			
a) verify that standards are met; and			
b) ensure that the compliance monitoring programme is established, implemented and maintained?			
Does the CM manager have direct access to the AM?			
Does the CM manager have access to all parts of the Organisation operating an FSTD and as necessary any sub-contractor's Organisation			
<b>3. COMPLIANCE MONITORING (CM)</b>	1	1	L
Has CM been established by the operator?			

Is CM properly documented? (see Section 4)	
Is the CM structured according to the size and complexity of the operator?	
Does the CM include the following as a minimum:	
a) monitoring of compliance with required technical standards;	a)
b) identification of corrective actions and person responsible for rectification;	b)
c) a feedback system to accountable manager to ensure corrective action are promptly addressed;	c)
d) reporting of significant non-compliances to the DGCA Sri Lanka;	d)
e) a compliance monitoring programme to verify continued compliance with applicable requirements, standards and procedures.	e)
	i
Are the responsibilities of the CM manager defined to include, as a minimum:	
a) monitoring of corrective action programme;	a)
b) ensuring that the corrective actions contain the necessary elements;	b)
c) providing management with an independent assessment of corrective action, implementation and completion;	c)
d) evaluation of the effectiveness of the corrective action programme.	d)
Are adequate financial, material and human resources in place to support CM?	
Are management evaluations/reviews of CM held at least quarterly?	
Does the management evaluation ensure that the CMS is working effectively and is it comprehensive and well documented?	

Does the compliance monitoring programme identify the processes necessary and the persons within the Organisation who have the training, experience, responsibility and authority to carry out the following:	
a) schedule and perform quality inspections and audits, including unscheduled audits when required;	a)
b) identify and record any concerns or findings, and the evidence necessary to substantiate such concerns or findings;	b)
c) initiate or recommend solutions to concerns or findings through designated reporting channels;	c)
d) verify the implementation of solutions within specific timescales.	d)
Is there sufficient auditor resource available and can their required level of independence be demonstrated?	
Do the auditors report directly to the compliance monitoring manager?	
Does the defined audit schedule cover the following areas, within each 12 month period?	
a) Organisation	a)
b) plans and objectives	b)
c) maintenance procedures	c)
d) FSTD qualification level;	d)
e) supervision	e)
f) FSTD technical status	f)
g) manuals, logs and records	g)
h) defect deferral	h)
i) personnel training	i)
j) aircraft and simulator configuration management, including Airworthiness Directives	j)

How are audit non-compliances recorded?		
Are procedures in place to ensure that corrective actions are taken in response to findings?		

Are records of the compliance monitoring	
programme:	
a) accurate	a)
b) complete and	b)
c) readily accessible?	c)
Is there an acceptable and effective procedure for providing a briefing on the CM to all personnel?	
Is there an acceptable and effective procedure for ensuring that all those responsible for managing the CM receive training covering:	
a) an introduction to the concept of the CM;	a)
b) compliance management;	b)
c) the concept of compliance assurance;	c)
d) CM manuals;	d)
e) audit techniques;	e)
f) reporting and recording;	f)
g) how the CM supports continuous improvement within the Organisation.	g)
Are suitable training records maintained?	
Are activities within the CM subcontracted out to external agencies?	
Do written agreements exist between the Organisation and the sub-contractor clearly defining the services and standard to be provided?	
Are the procedures in place to ensure that the necessary authorisations/approval when required are held by a subcontractor?	

Are the procedures in place to establish that the sub-contractor has the necessary technical competence?	
4. CM MANUAL	
Is there a procedure in place to control copies and the distribution of the CM manual?	
What is the current status of the CM manual – amendment and issue date?	
Is the CM manual signed by the accountable manager and the compliance monitoring manager?	
Does the CM manual include, either directly or by reference to other documents, the following:	
a) a description of the Organisation;	a)
b) reference to appropriate FSTD technical standards;	b)
c) allocation of duties and responsibilities;	c)
d) audit procedures;	d)
e) reporting procedures;	e)
f) follow-up and corrective action procedures;	f)
g) document retention policy;	g)
h) training records	h)
Is there a document retention policy covering:	
a) audit schedules;	a)
b) inspection and audit reports;	b)
c) responses to findings;	c)
d) corrective action reports;	d)
e) follow-up and closure reports;	e)
f) management evaluation reports.	f)
Does the CM manual include, either directly or by reference to other documents, the	

following procedures for day to day operation of the FSTD:	
a) defect reporting systems;	a)
b) defect rectification processes;	b)
c) tracking mechanisms;	c)
d) preventative maintenance programmes;	d)
e) spares handling;	
f) equipment calibration;	e)
g) configuration management of the device including visual, IOS and navigation databases;	f) g)
h) configuration control system to ensure the continued integrity of the hardware and software qualified;	h)
i) QTG running and function and subjective tests	i)
Does the CM manual include, either directly or by reference to other documents, procedures for notification of the competent authorities of the following:	
a) any change in the Organisation including company name, location, management;	a)
b) major changes to a qualified device;	b)
c) deactivation or relocation of a qualified device;	c)
d) major failures of a qualified device;	d)
e) major safety issue associated with the installation.	e)
Does the CM manual define acceptable and effective procedures to ensure compliance with applicable health and safety regulations, including:	
a) safety briefings;	a)
b) fire/smoke detection and suppression;	b)

<ul> <li>c) protection against electrical, mechanical, hydraulic and pneumatic hazards;</li> <li>d) other items as defined in AMC1 ORA.FSTD.115</li> </ul>		c) d)	
Does the CM manual include acceptable and			
effective procedures for regularly checking			
FSTD safety features such as emergency			
stops and emergency lighting, and are such			
tests recorded?			
5. COMPLIANCE MEASURES			
Have compliance monitoring objectives been developed from the policy statement, and included either directly or by reference in the CMS manual?			
Does the CMS include processes to produce and review appropriate metrics data?			
Do these compliance measures track the following:			
a) FSTD availability;	a)		
b) numbers of defects;	b)		
c) open defects;	c)		
d) defect closure rates;	d)		
e) training session interrupt rates;	e)		
f) training session compliance rating.	f)		
Do the compliance measures support the compliance objectives?			
Required actions/Comments	1	l	
Signature:			
Date:			

## GM3 ORA.FSTD.100 General

# COMPLIANCE MONITORING SYSTEM – GUIDANCE FOR ORGANISATIONS OPERATING FSTDs TO PREPARE FOR A DGCA SRI LANKA EVALUATION

#### (a) Introduction

The following material provides guidance on what is expected by the DGCA Sri Lanka to support the discussion during the preliminary briefing, which is a first step of any initial or recurrent evaluation of an FSTD carried out by DGCA Sri Lanka. This document has been developed as well to standardise working methods throughout Member States and to develop effective CM spot checks to satisfy the applicable requirements and therefore to ensure the highest standards of training are attained.

- (b) Document form Different document forms can be considered. Nevertheless, it appears that the best solution is a dossier, which includes all the information required by the DGCA Sri Lanka to perform an evaluation.
- (c) Contents of the dossier for an initial evaluation:
  - (1) type of FSTD and qualification level requested;
  - (2) evaluation agenda: including date of evaluation, name of people involved for the competent authority, contact details for the FSTD operator, schedules for the subjective flight profile, QTG rerun;
  - (3) FSTD identification and detailed technical specification including, type of FSTD, manufacturer, registration number, date of entry into service, host computer, visual system, motion system, type of IOS, simulated version(s), standards of all the aircraft computers, if applicable. Manuals needed for an evaluation (e.g. flight manuals, system manuals, acceptance test manual, IOS user manual etc. if applicable) could already be provided as part of the dossier in an electronic format;
  - (4) planned modifications;
  - (5) subjective open defect(s);
  - (6) airport visual databases including for each visual scene, name of the airport, IATA and ICAO codes, type of visual scene (specific or generic), additional capabilities (e.g. snow model, WGS 84 compliance, enhanced ground proximity warning system (EGPWS)); and
  - (7) QTG status: the list should include for each QTG test available the status of the tests following the FSTD operator and competent authority reviews.
- (d) Contents of the dossier for a recurrent evaluation:
  - (1) type of FSTD and qualification level requested;
  - (2) evaluation agenda, including date of evaluation, name of people involved for the competent authority, contact details for the operator, schedules for the subjective flight profile, QTG rerun and QTG review;

- (3) FSTD identification, including type of FSTD, manufacturer, registration number, date of entry into service, host computer, visual system, motion system, type of IOS, simulated version(s), standards of all the aircraft computers, if applicable;
- (4) status of items raised during the last evaluation and date of closure;
- (5) reliability data: training hours month by month during the past year, numbers of complaints mentioned in the technical log, training hours lost, availability rate;
- (6) operational data: a list of FSTD users over the previous 12 months should be provided, with number of training hours;
- (7) failure tabulation including categorisation of failures (by ATA chapter and Pareto diagram, ARINC classification);
- (8) details of main failures leading to training interruption or multiple occurrences of some failures;
- (9) hardware and/or software updates or changes since last evaluation and planned hardware and/or software updates or changes;
- (10) subjective open defect(s);
- (11) airport visual databases including for each visual scene, name of the airport, ATA and ICAO codes, type of visual scene (specific or generic), additional capabilities (snow model, WGS 84 compliance, EGPWS);
- (12) QTG status: the list should include for each QTG test available, the date of run during the past year, any comment, and the status of the tests; and
- (13) results of scheduled internal audits and additional quality inspections (if any) since last evaluation and a summary of actions taken.

## **ORA.FSTD.105** Maintaining the FSTD qualification

- (a) In order to maintain the qualification of the FSTD, an FSTD qualification certificate holder shall run the complete set of tests contained within the master qualification test guide (MQTG) and functions and subjective tests progressively over a 12-month period.
- (b) The results shall be dated, marked as analysed and evaluated, and retained in accordance with ORA.FSTD.240, in order to demonstrate that the FSTD standards are being maintained.
- (c) A configuration control system shall be established to ensure the continued integrity of the hardware and software of the qualified FSTD.

#### **ORA.FSTD.110** Modifications

- (a) The holder of an FSTD qualification certificate shall establish and maintain a system to identify, assess and incorporate any important modifications into the FSTDs it operates, especially:
  - (1) any aircraft modifications that are essential for training, testing and checking, whether or not enforced by an airworthiness directive; and
  - (2) any modification of an FSTD, including motion and visual systems, when essential for training, testing and checking, as in the case of data revisions.

- (b) Modifications of the FSTD hardware and software that affect handling, performance and systems operation or any major modifications of the motion or visual system shall be evaluated to determine the impact on the original qualification criteria. The Organisation shall prepare amendments for any affected validation tests. The Organisation shall test the FSTD to the new criteria.
- (c) The Organisation shall inform the DGCA Sri Lanka in advance of any major changes to determine if the tests carried out are satisfactory. The DGCA Sri Lanka shall determine if a special evaluation of the FSTD is necessary prior to returning it to training following the modification.

# AMC1 ORA.FSTD.110 Modifications

## GENERAL

- (a) The FSTD, where applicable, should be maintained in a configuration that accurately represents the aircraft being simulated. This may be a specific aircraft tail number or may be a representation of a common standard.
- (b) Users of the device should always establish a differences list for any device they intend to use, and to identify how any differences should be covered in training. In order to ensure each device is maintained in the appropriate configuration, the Organisation operating an FSTD should have a system that ensures that all relevant airworthiness directives (ADs) are introduced where applicable on affected FSTDs.
- (c) ADs from both the State of Design of the aircraft and the State where the FSTD is located should be monitored. ADs from the State of Design of an aircraft are usually automatically applicable, unless specifically varied by the aircraft's State of Registry.
- (d) Where appropriate, ADs issued by States where users of the device have aircraft registered should also be monitored. In addition to ADs, the FSTD operator should also put in place processes that ensure all aircraft modifications are reviewed for any effect on training, testing and checking. This can be achieved by reviewing the aircraft manufacturer's service bulletins and may require a specific link to the aircraft manufacturer to be developed. In practice this link is often established through aircraft operators who use the device.
- (e) Organisations operating FSTDs should notify the DGCA Sri Lanka of major changes.
- (f) This does not imply that the DGCA Sri Lanka will always wish to directly evaluate the change. The DGCA Sri Lanka should be mindful of the potential burden placed on the Organisation by a special evaluation and should always consider that burden when deciding if such an evaluation is necessary.
- (g) (g) The Organisation operating FSTDs should have an internal acceptance process for modifications, to be used when implementing all modifications, even if the DGCA Sri Lanka has made a decision to carry out an evaluation.

## **GM1 ORA.FSTD.110 Modifications**

## **EXAMPLES OF MAJOR MODIFICATIONS**

The following are examples of modifications that should be considered as major. This list is not exhaustive and modifications need to be classified on a case-by-case basis:

- (a) any change that affects the QTG;
- (b) introduction of new standards of equipment such as flight management and guidance computer (FMGC) and updated aerodynamic data packages;
- (c) re-hosting of the FSTD software;
- (d) introduction of features that model new training scenarios; e.g. airborne collision avoidance system (ACAS), EGPWS;
- (e) aircraft modifications that could affect the FSTD qualification; and
- (f) FSTD hardware or software modifications that could affect the handling qualities, performance or system representation.

#### **ORA.FSTD.115** Installations

(a) The holder of an FSTD qualification certificate shall ensure that:

- (1) the FSTD is housed in a suitable environment that supports safe and reliable operation;
- (2) all FSTD occupants and maintenance personnel are briefed on FSTD safety to ensure that they are aware of all safety equipment and procedures in the FSTD in case of an emergency; and
- (3) the FSTD and its installations comply with the local regulations for health and safety.
- (b) The FSTD safety features, such as emergency stops and emergency lighting, shall be checked at least annually and recorded.

# AMC1 ORA.FSTD.115 Installations

## MINIMUM ELEMENTS FOR SAFE OPERATION

- (a) Introduction
  - (1) This AMC identifies those elements that are expected to be addressed, as a minimum, to ensure that the FSTD installation provides a safe environment for the users and operators of the FSTD under all circumstances.
- (b) Expected elements
  - (1) Adequate fire/smoke detection, warning and suppression arrangements should be provided to ensure safe passage of personnel from the FSTD.

- (2) Adequate protection should be provided against electrical, mechanical, hydraulic and pneumatic hazards, including those arising from the control loading and motion systems, to ensure maximum safety of all persons in the vicinity of the FSTD.
- (3) Other areas that should be addressed include the following:
  - (i) a two-way communication system that remains operational in the event of a total power failure;
  - (ii) emergency lighting;
  - (iii) escape exits and escape routes;
  - (iv) occupant restraints (seats, seat belts etc.);
  - (v) external warning of motion and access ramp or stairs activity;
  - (vi) danger area markings;
  - (vii) guard rails and gates;
  - (viii) motion and control loading emergency stop controls accessible from either pilot or instructor seats;
  - (ix) a manual or automatic electrical power isolation switch.

# **GM1 ORA.FSTD.115 Installations**

GENERAL

- (a) The intent of ORA.FSTD.115 is to establish that the Organisation operating an FSTD has all the necessary procedures in place to ensure that the FSTD installation remains in compliance with all requirements affecting the safety of the device and its users.
- (b) Based on experience, the DGCA Sri Lanka should pay particular attention to the quality of safety briefings on the FSTD provided to users and instructors, and to the execution of regular checks on the FSTD safety features.
- (c) It is recognised that certain checks, such as that of the emergency stop, can have adverse impact on the FSTD if carried out in full.
- (d) It is acceptable to develop a procedure that protects elements of the device by shutting them down in advance, in a more controlled manner, provided it can be shown that the procedure still demonstrates the whole device can be shut down by the operation of a single emergency stop button, when required.

## **ORA.FSTD.120** Additional equipment

Where additional equipment has been added to the FSTD, even though not required for qualification, it shall be assessed by the DGCA Sri Lanka to ensure that it does not adversely affect the quality of training.

# **SECTION II**

## **Requirements for the qualification of FSTDs**

## **ORA.FSTD.200** Application for FSTD qualification

- (a) The application for an FSTD qualification certificate shall be made in a form and manner established by the DGCA Sri Lanka:
  - (1) in the case of basic instrument training devices (BITDs), by the BITD manufacturer;
  - (2) in all other cases, by the Organisation intending to operate the FSTD.
- (b) Applicants for an initial qualification shall provide the DGCA Sri Lanka with documentation demonstrating how they will comply with the requirements established in this Regulation. Such documentation shall include the procedure established to ensure compliance with ORA.GEN.130 and ORA.FSTD.230.

## AMC1 ORA.FSTD.200 Application for FSTD qualification

LETTER OF APPLICATION FOR INITIAL QUALIFICATION OF AN FSTD; EXCEPT BASIC INSTRUMENT TRAINING DEVICE (BITD)

A sample of letter of application is provided overleaf.

Part A

To be submitted not less than 3 months prior to requested qualification date

(Date)

(Office – DGCA Sri Lanka)

(Address)..... (City)..... (Country).....

Type of FSTD	Aircraft Type/class	Qualification Level Sought				
Full Flight Simulator FFS		А	В	С	D	Sp./Cat
Flight Training Device FTD		1	2	3		

	r	[	I	I	r	r1
Flight and						
Navigation		Ι	II	III	II MCC	III MCC
Procedures		1	11			
Trainer						
FNPT						
Interim Qualification	ation Level reque	sted: YES	/NO			
Dear,						
<name applicant="" of=""> requests the evaluation of its flight simulation training</name>						
device <operator's fstd="" identification="" of="" the=""> for qualification. The <fstd< td=""></fstd<></operator's>						
manufacturer's name> FSTD with its <visual and="" applicable="" if="" manufacturer's="" name,="" system="">visual system.</visual>						
Evaluation is requested for the following configurations and engine fits as applicable:						
e.g. 767 PW/GE	e.g. 767 PW/GE and 757RR					
1						

2.....

3.....

Dates requested are: <date(s)> and the FSTD will be located at <place>.

The objective tests of the QTG will be submitted by <date> and in any event not less than 30 days before the requested evaluation date unless otherwise agreed with the DGCA Sri Lanka-

Comments:

•••••••••••••••••••••••••••••••••••••••
Signed
Print name:
Position/appointment held:
Email address:
Telephone number:
Part B
To be completed with attached QTG results
(Date)

We have completed tests of the FSTD and except as noted below.	l declare that it meets all applicable requirements
The following QTG tests still have to be	provided:
Tests	Comments
(Add boxes as required)	
It is expected that they will be completed date.	d and submitted 3 weeks prior to the evaluation
Signed	
Print name:	
Position/appointment held:	
E-mail address:	
Telephone number:	
Part C	
To be completed not less than 7 days p	rior to initial evaluation
	(Date)
The FSTD has been assessed by the follo	wing evaluation team:
(Name) Qualification	
(Name) Qualification	
(Name) Qualification	
(Name) Pilot's Licence	e Nr
(Name) Flight Engineer's Lic	cence Nr (if applicable)

- FFS/FTD: This team attests that the <type of FSTD> conforms to the aeroplane flight deck/helicopter cockpit configuration of <name of aircraft operator (if applicable), type of aeroplane/helicopter> aeroplane/helicopter within the requirements for <type of FSTD and level> and that the simulated systems and subsystems function equivalently to those in that aeroplane/helicopter. The pilot of this evaluation team has also assessed the performance and the flying qualities of the FSTD and finds that it represents the designated aeroplane/helicopter.
- FNPT: This team attest(s) that the <type of FSTD> represents the flight deck or cockpit environment of a <aeroplane/helicopter or class of aeroplane/type of helicopter> within the requirements for <type of FSTD and level> and that the simulated systems appear to function as in the class of aeroplane/type of helicopter. The pilot of this evaluation team has also assessed the performance and the flying qualities of the FSTD and finds that it represents the designated class of aeroplane/type of helicopter.

(Additional comments as required)

Signed
Print name:
Position/appointment held:
E-mail address:
Telephone number:

# GM1 ORA.FSTD.200 Application for FSTD qualification

## USE OF FOOTPRINT TESTS IN QUALIFICATION TEST SUBMISSION

- (a) Introduction
  - (1) Recent experience during initial qualification of some FFSs has required acceptance of increasing numbers of footprint tests. This is particularly true for FFSs of smaller or older aircraft types, where there may be a lack of aircraft flight test data. However, the large number of footprint tests offered in some QTGs has given rise to concern.
  - (2) This guidance is applicable to FFS aeroplane, FTD aeroplane, FFS helicopter and FTD helicopter qualifications.

## (b) Terminology

(1) Footprint test - footprint test data are derived from a subjective assessment carried out on the actual FSTD requiring qualification. The assessment and validation of these data are carried

out by a pilot appointed by the DGCA Sri Lanka competent authority. The resulting data are the footprint validation data for the FSTD concerned.

- (c) Recommendation
  - (1) It is permitted to use footprint data where flight test data is not available. Only when all other alternative possible sources of data have been thoroughly reviewed without success may a footprint test be acceptable, subject to a case-by-case review with the DGCA Sri Lanka competent authorities concerned, and taking into consideration the level of qualification sought for the FSTD.
  - (2) Footprint test data should be:
    - (i) constructed with initial conditions and FFS set up in the appropriate configuration (e.g. correct engine rating) for the required validation data;
    - (ii) a manoeuvre representative of the particular aircraft being simulated;
    - (iii)manually flown out by a type rated pilot who has current experience on type\* and is deemed acceptable by the DGCA Sri Lanka competent authority\*\*;
    - (iv) constructed from validation data obtained from the footprint test manoeuvre and transformed into an automatic test;
    - (v) an automatic test run as a fully integrated test with pilot control inputs; and
    - (vi) automatically run for the initial qualification and recurrent evaluations.

\* In this context, 'current' refers to the pilot experience on the aircraft and not to the Part-FCL standards.

\*\* The same pilot should sign off the complete test as being fully representative.

- (3) A clear rationale should be included in the QTG for each footprint test. These rationales should be added to and clearly recorded within the validation data roadmap (VDR) in accordance with and as defined in Appendix 2 to AMC1-CS-FSTD(A).300.
- (4) Where the number of footprint tests is deemed by the DGCA Sri Lanka competent authority to be excessive, the maximum level of qualification may be affected. The DGCA Sri Lanka competent authority should review each area of validation test data where the use of footprint tests as the basis for the validation data is proposed. Consideration should be given to the extent to which footprint tests are used in any given area.

For example, it would be unacceptable if all or the vast majority of take-off tests were proposed as footprint tests, with little or no flight test data being presented. It should be recognised, therefore, that it may be necessary for new flight test data to be gathered if the use of footprint tests becomes excessive, not just overall, but also in specific areas.

- (5) For recurrent evaluation purposes an essential match is to be expected. Validation tests using footprint data which do not provide an essential match should be justified to the satisfaction of the DGCA Sri Lanka competent authority.
- (6) The DGCA Sri Lanka competent authority should be consulted at the point of definition of the aircraft data for qualification prior to the procurement of the device if footprint tests need to be used.

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### **ORA.FSTD.205** Certification specifications for FSTDs

- (a) The DGCA Sri Lanka shall issue, Certification Specifications as standard means to show compliance of FSTDs with the Essential Requirements.
- (b) Such Certification Specifications shall be sufficiently detailed and specific to indicate to applicants the conditions under which qualifications will be issued.

#### **ORA.FSTD.210** Qualification basis

- (a) The qualification basis for the issuance of an FSTD qualification certificate shall consist of:
  - (1) the applicable Certification Specifications established by the DGCA Sri Lanka that are effective on the date of the application for the initial qualification;
  - (2) the aircraft validation data defined by the mandatory part of the operational suitability data,
  - (3) any special conditions prescribed by the DGCA Sri Lanka if the related Certification Specifications do not contain adequate or appropriate standards for the FSTD because the FSTD has novel or different features to those upon which the applicable Certification Specifications are based.
- (b) The qualification basis shall be applicable for future recurrent qualifications of the FSTD, unless it is recategorised.

#### **ORA.FSTD.225** Duration and continued validity

- (a) The full flight simulator (FFS), flight training device (FTD) or flight and navigation procedures trainer (FNPT) qualification shall remain valid subject to:
  - (1) the FSTD and the operating Organisation remaining in compliance with the applicable requirements;
  - (2) the DGCA Sri Lanka being granted access to the Organisation as defined in ORA.GEN.140 to determine continued compliance with the relevant requirements and
  - (3) the qualification certificate not being surrendered or revoked.
- (b) The period of 12 months established in ARA.FSTD.120(b)(a) may be extended up to a maximum of 36 months, in the following circumstances:
  - (1) the FSTD has been subject to an initial and at least one recurrent evaluation that has established its compliance with the qualification basis;
  - (2) the FSTD qualification certificate holder has a satisfactory record of successful regulatory FSTD evaluations during the previous 36 months;
  - (3) the DGCA Sri Lanka performs a formal audit of the compliance monitoring system defined in ORA.GEN.200(a)(6) of the Organisation every 12 months; and
  - (4) an assigned person of the Organisation with adequate experience reviews the regular reruns of the qualification test guide (QTG) and conducts the relevant functions and subjective tests every 12 months and sends a report of the results to the DGCA Sri Lanka.

- (c) A BITD qualification shall remain valid subject to regular evaluation for compliance with the applicable qualification basis by the DGCA Sri Lanka.
- (d) Upon surrender or revocation, the FSTD qualification certificate shall be returned to the DGCA Sri Lanka.

## AMC1 ORA.FSTD.225(b)(4) Duration and continued validity

The assigned person should have experience in FSTDs and training. The person may have FSTD experience or training experience with an education in FSTD evaluation procedures only, provided the other element of expertise is available within the Organisation and a procedure for undertaking the annual review and reporting to the DGCA Sri Lanka competent authority is documented within the compliance monitoring function.

## **ORA.FSTD.230** Changes to the qualified FSTD

- (a) The holder of an FSTD qualification certificate shall inform the DGCA Sri Lanka of any proposed changes to the FSTD, such as:
  - (1) major modifications;
  - (2) relocation of the FSTD; and
  - (3) any de-activation of the FSTD.
- (b) In case of an upgrade of the FSTD qualification level, the Organisation shall apply to the DGCA Sri Lanka for an upgrade evaluation. The Organisation shall run all validation tests for the requested qualification level. Results from previous evaluations shall not be used to validate FSTD performance for the current upgrade.
- (c) When an FSTD is moved to a new location, the Organisation shall inform the DGCA Sri Lanka before the planned activity along with a schedule of related events. Prior to returning the FSTD to service at the new location, the Organisation shall perform at least one third of the validation tests, and functions and subjective tests to ensure that the FSTD performance meets its original qualification standard. A copy of the test documentation shall be retained together with the FSTD records for review by the DGCA Sri Lanka. The DGCA Sri Lanka may perform an evaluation of the FSTD after relocation. The evaluation shall be in accordance with the original qualification basis of the FSTD.
- (d) If an Organisation plans to remove an FSTD from active status for prolonged periods, the DGCA Sri Lanka shall be notified and suitable controls established for the period during which the FSTD is inactive. The Organisation shall agree with the DGCA Sri Lanka a plan for the de-activation, any storage and reactivation to ensure that the FSTD can be restored to active status at its original qualification level.

# AMC1 ORA.FSTD.230(b) Changes to the qualified FSTD

- (a) An update is a result of a change to the existing device where it retains its existing qualification level. The change may be certified through a recurrent inspection or an extra inspection if deemed necessary by the DGCA Sri Lanka according to the applicable requirements in effect at the time of initial qualification.
- (b) If such a change to an existing device would imply that the performance of the device could no longer meet the requirements at the time of initial qualification, but that the result of the change would, in the opinion of the DGCA Sri Lanka, clearly mean an improvement to the performance and training capabilities of the device altogether, then the DGCA Sri Lanka might accept the proposed change as an update while allowing the device to retain its original qualification level.
- (c) An upgrade is defined as the raising of the qualification level of a device, or an increase in training credits, which can only be achieved by undergoing an initial qualification according to the latest applicable requirements.
- (d) As long as the qualification level of the device does not change, all changes made to the device should be considered to be updates pending approval by the DGCA Sri Lanka.
- (e) An upgrade, and consequent initial qualification according to the latest applicable requirements, is only applicable when the Organisation requests another qualification level (recategorisation) for the FSTD.

## **ORA.FSTD.235** Transferability of an FSTD qualification

- (a) When there is a change of the Organisation operating an FSTD, the new Organisation shall inform the DGCA Sri Lanka in advance in order to agree upon a plan of transfer of the FSTD.
- (b) The DGCA Sri Lanka may perform an evaluation in accordance with the original qualification basis of the FSTD. (c) When the FSTD no longer complies with its initial qualification basis, the Organisation shall apply for a new FSTD qualification certificate.

#### **ORA.FSTD.240** Record-keeping

The holder of an FSTD qualification certificate shall keep records of:

- (a) all documents describing and proving the initial qualification basis and level of the FSTD for the duration of the FSTD's lifetime; and
- (b) any recurrent documents and reports related to each FSTD and to compliance monitoring activities for a period of at least 5 years.

## AMC1 ORA.FSTD.240 Record-keeping

#### FSTD RECORDS

- (a) FSTD records to be kept should include the following:
  - (1) for the lifetime of the device:
    - (i) the master QTG (MQTG) of the initial evaluation;
    - (ii) the qualification certificate of the initial evaluation; and
    - (iii) the initial evaluation report;

#### (2) for a period of at least 5 years (in paper or electronic format):

- (i) recurrent QTG runs;
- (ii) recurrent evaluation reports;
- (iii) reports of internal functions and subjective testing;
- (iv) technical log;
- (v) CMS report;
- (vi) audit schedule;
- (vii) evaluation programme;
- (viii) management evaluation reports;
- (ix) obsolete procedures and forms.