



Cover Regulation to TCAR OPS and
TCAR OPS Part - DEF, ORO, CAT, SPA and CC

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Approved By

Air Chief Marshal

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Director General

The Civil Aviation Authority of Thailand

THAILAND CIVIL AVIATION REGULATION (TCAR)

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9	00	20 Dec 2024
10	00	20 Dec 2024
11	00	20 Dec 2024
12	00	20 Dec 2024
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18	00	20 Dec 2024
19	00	20 Dec 2024
20	00	20 Dec 2024
21	00	20 Dec 2024
22	01	18 Aug 2026
23	00	20 Dec 2024
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TABLE OF CONTENTS

RECORD OF REVISIONS.....	3
LIST OF EFFECTIVE PAGES	5
TABLE OF CONTENTS	7
FOREWORD	9
SECTION I - INTRODUCTION AND PRINCIPLES	11
Article 1 - Introduction.....	11
Article 2 - Definitions	11
Article 3 - Objective	13
Article 4 - Subject matter and scope	13
SECTION II - Commercial Air operations	15
Article 5 - Commercial air transport operators	15
Article 5a – Cabin crew members	15
Article 5b – Cabin crew instructors.....	15
Article 5c – Cabin crew evaluators.....	16
Article 6 – Evidence-based training.....	16
Article 6a – Flight and duty times	16
SECTION III - Operations requiring specific approval	17
Article 7 - Operations requiring a specific approval	17
SECTION IV - Provisions for the transition.....	19
Article 8 - Entry into force and application.....	19
Article 8a – Transition for cabin crew, CC instructor/evaluator	19
Article 9 - Equivalence of regulations	19
Article 10 - Application to obtain an AOC.....	20
Article 11 - Change management and transition plan to TCAR OPS.....	21
Article 12 - Management system.....	21
Article 13 - Use of operating procedures.....	21
Article 14 - Validity of training delivered before the entry into force of TCAR OPS.....	21
Article 14a - Flight crew requirements for maintenance check flights	22
Article 15 - Validity of flight crew training, qualifications and nomination delivered by CAT operators before the entry into force of TCAR OPS	22
Article 16 - Validity of cabin crew training, qualifications and nomination delivered by CAT operators.....	23
Article 17 - Validity of flight operations officer training delivered by CAT operators before the entry into force of TCAR OPS.....	24

Article 18 - Validity of cabin crew training delivered by other operators than CAT operators before the entry into force of TCAR OPS	25
Article 19 - Training to TCAR OPS.....	25
Article 20 - Validity of specific approvals granted before the entry into force of TCAR OPS	25
Article 21 - Granting of a specific approval during the transition period	26
Article 22 - Specific approvals for PBN operations.....	27
Article 23 - Specific approvals for MNPS operations	28
Article 24 - Specific approvals for LVOs and operations with operational credits	28
Article 25 – ETOPS/EDTO Two and more-engines aeroplanes used for extended range operations/extended diversion time operations (ETOPS/EDTO).	29
Article 26 - Type B EFB application by a CAT operator.....	29
Article 27 - Transition for commercial air transport operations	30
Annex 01 Essential requirements for air operations	33

FOREWORD

According to Section 15/7 and Section 15/8 of Air Navigation Act, (14th Amendment) B.E.2562, whereas the Civil Aviation Authority of Thailand (CAAT) shall have the duties and responsibilities for regulating and oversight on the safety, security and facilitation of civil aviation in Thailand. In regulating and oversight civil aviation to promote sustainable development on civil aviation industry, The CAAT shall also proceed to comply with the Convention on International Civil Aviation, ICAO Annexes and International Standards.

Having regard to Section 41/112, 41/115 and 41/117 of the Air Navigation Act (14th Amendment) B.E.2562 prescribes that the Director General shall have power to issue regulations to prescribing the criteria for granting the Air Operator Certificate in order to certify that the person applying for the said certificate has the ability to perform Air Operation safely and effectively and the Director General will issue an Air Operator Certificate to those intending to operate that has proven to perform a safety management standard for commercial air transportation which not lower than the minimum standard specified in the regulation issued by the Director. In this regard, the application, issuance, revision and renewal of the Air Operator Certificate, as well as the form of the Certificate and its Specific Approval shall be in accordance with the regulation issued by the Director General and the holder of the Air Operator Certificate shall conduct its operation safely and perform other duties pursuant to the criteria, requirements, conditions and privileges granted in accordance with the regulation issued by the Director General. The Director General hereby issued the regulation concerning the operations of aircraft as detailed in the Regulation of the Civil Aviation Authority of Thailand No. 26 on the Air Operator Certificate and the Regulation of the Civil Aviation Authority of Thailand No. 27 on the Operation of Air Operator Certificate holder.

By the virtue of Clause 7 of the Regulation of the Civil Aviation Authority of Thailand No. 27 on the Operation of Air Operator Certificate holder, the Director General issued Notification of the Civil Aviation Authority of Thailand Re: Thailand Civil Aviation Regulation – Air Operation (TCAR OPS) B.E. 2566 to prescribe the essential requirements for air operations laid down in this regulation, the CAAT issued detail requirements contained in this “ TCAR OPS Air Operations Regulation” as well as in TCAR OPS Parts including Cover Regulation to TCAR OPS and TCAR OPS Part DEF, ORO, CAT, SPA and CC.

This Cover regulation to TCAR OPS and TCAR OPS Parts contains an Introduction Definition and Principles of TCAR OPS as well as TCAR OPS Parts and the provisions for the transition for Commercial Air operations and Operations requiring a specific approval.

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SECTION I - INTRODUCTION AND PRINCIPLES

Article 1 - Introduction

In this publication the word 'must' or 'shall' is used to indicate where the Director General requires the organisation, owner or operator to respond to and comply with, or adhere closely to, the defined requirement.

If the organisation's/owner's/operator's response is deemed to be inadequate by the Director General, a specific requirement or restriction may be applied as a condition of the appropriate instrument to be issued under Thailand Civil Aviation Regulations.

Article 2 - Definitions

For the purpose of this Regulation, the following definitions apply:

- (1) 'Acceptable means of compliance (AMC)' means non-binding standards adopted by the CAAT to illustrate means to establish compliance with the requirements of the regulations;
- (2) 'Alternative means of compliance (AMoC)' means those means that propose an alternative to an existing AMC or those that propose new means to establish compliance with the requirements of the regulations for which no associated AMC have been adopted by the CAAT;
- (3) 'Aeroplane' means a power-driven heavier-than-air aircraft, deriving its lift in flight chiefly from aerodynamic reactions on surfaces which remain fixed under certain conditions of flight;
- (4) 'Aerodrome' means a defined area, on land or on water, on a fixed, fixed offshore or floating structure, including any buildings, installations and equipment thereon, intended to be used either wholly or in part for the arrival, departure and surface movement of aircraft;
- (5) 'Aircraft' means any machine that can derive support in the atmosphere from the reactions of the air other than reactions of the air against the earth's surface;
- (6) 'Aircraft operator' means any legal or natural person operating or proposing to operate one or more aircraft;
- (7) 'Aircrew' means flight crew and cabin crew member;
- (8) 'Approved training organisation (ATO)' means an organisation which is entitled to provide training to pilots on the basis of an approval issued by the CAAT;
- (9) 'Basic Instrument Training Device (BITD)' means a ground-based training device for the training of pilots representing the student pilot's station of a class of aeroplanes, which may use screen-based instrument panels and spring-loaded flight controls, and providing a training platform for at least the procedural aspects of instrument flight;
- (10) 'Cabin crew member' means an appropriately qualified crew member, other than a flight crew or technical crew member, who is assigned by an operator to perform duties related to the safety of passengers and flight during operations;
- (11) 'Certificate' means any certificate, approval, licence, authorisation, attestation or other document issued as the result of a certification attesting compliance with the applicable requirements;

- (12) 'Certification' means any form of recognition in accordance with this Regulation, based on an appropriate assessment, that a legal or natural person, product, part, non-installed equipment, equipment to control unmanned aircraft remotely, aerodrome, safety-related aerodrome equipment, ATM/ANS system, ATM/ANS constituent or flight simulation training device complies with the applicable requirements of this Regulation and of the delegated and implementing acts adopted on the basis thereof, through the issuance of a certificate attesting such compliance;
- (13) 'Certification specifications (CS)' mean technical standards adopted or accepted by the CAAT indicating means to be used by an organisation for the purpose of certification;
- (14) 'Chicago Convention' means the Convention on International Civil Aviation and the Annexes thereto, signed in Chicago on 7 December 1944;
- (15) 'Commercial air transport' means an aircraft operation to transport passengers, cargo or mail for remuneration or other valuable consideration;
- (16) 'Complex Motor-Powered Aircraft' (CMPA) shall mean:
- (i) an aeroplane:
 - o with a maximum certificated take-off mass exceeding 5 700 kg, or
 - o certificated for a maximum passenger seating configuration of more than nineteen, or
 - o certificated for operation with a minimum crew of at least two pilots, or
 - o equipped with (a) turbojet engine(s) or more than one turboprop engine, or
 - (ii) a helicopter certificated:
 - o for a maximum take-off mass exceeding 3 175 kg, or
 - o for a maximum passenger seating configuration of more than nine, or
 - o for operation with a minimum crew of at least two pilots, or
 - (iii) a tilt rotor aircraft.
- (17) 'Credit' means the recognition of prior experience or qualifications;
- (18) 'Flight simulation training device' means any type of device in which flight conditions are simulated on the ground, including flight simulators, flight training devices, flight and navigation procedures trainers and basic instrument training devices;
- (19) FSTD categories are:
- (i) in the case of aeroplanes, a full flight simulator (FFS), a flight training device (FTD), a flight and navigation procedures trainer (FNPT) or a basic instrument training device (BITD);
 - (ii) in the case of helicopters, a full flight simulator (FFS), a flight training device (FTD) or a flight and navigation procedures trainer (FNPT).
- (20) 'Helicopter' means a heavier-than-air aircraft supported in flight chiefly by the reactions of the air on one or more power-driven rotors on substantially vertical axes;
- (21) 'Principal place of business' of an organisation means the head office or registered office of the organisation within which the principal financial functions and operational control of the activities referred to in this Regulation are exercised;
- (22) 'TCAR PEL - FCL licence' means a flight crew licence that complies with TCAR PEL Part FCL requirements.
- (23) 'TCAR OPS Parts' means TCAR OPS Part DEF, ORO, CAT, SPA and CC.

Article 3 - Objective

- (1) The principal objective of TCARs regulations is to establish and maintain a high uniform level of civil aviation safety in the Kingdom of Thailand.
- (2) TCARs Regulations further aims to:
 - (a) contribute to the Thailand aviation safety policy and to the improvement of the overall performance of the civil aviation sector;
 - (b) facilitate the mutual recognition of goods, persons, services, and capital, providing a level playing field for all actors in the ASEAN market, and improve the competitiveness of the Thai aviation industry;
 - (c) facilitate the movement of goods, services and personnel worldwide, by promoting the mutual acceptance of certificates and other relevant documents;
 - (d) promote cost-efficiency, avoiding duplication, and promoting effectiveness in regulatory, certification and oversight processes;
 - (e) promote, worldwide, the views of the Kingdom of Thailand regarding civil aviation standards and civil aviation regulations;
 - (f) support passenger confidence in a safe civil aviation.

Article 4 - Subject matter and scope

- (1) This Cover regulation as well as TCAR OPS Part DEF, ORO, CAT, SPA and CC and other Air Operations regulations lay down:
 - (a) the different types of authorisations and approvals required for:
 - a. commercial operations with aeroplanes and helicopters;
 - b. operations in specific conditions that require a specific approval from the CAAT.
 - (b) the requirements for commercial operations;
 - (c) the requirements for operations requiring a specific approval;
 - (d) the requirements for issuing, maintaining, amending, limiting, suspending or revoking Air Operators certificates granted to Air operators performing CAT operations with aeroplanes and/or helicopters;
 - (e) the requirements for issuing, maintaining, amending, limiting, suspending or revoking the authorisations granted to Air operators performing operations requiring a specific approval;
 - (f) the requirements for initial cabin crew training,
 - (g) the requirements for the persons conducting training or checking of cabin crew members;
 - (h) the conditions for the recognition of trainings performed in accordance with the regulations in force before the entry into force of this cover regulation and TCAR OPS Part DEF, ORO, CAT, SPA and CC.
- (2) Operations covered by this cover regulation and TCAR OPS Part DEF, ORO, CAT, SPA and CC are operations of aeroplanes and helicopters, which are registered in Thailand.
- (3) This Regulation does not apply to air operations with airships, balloons, powered-lifts, ultralights and gliders.

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SECTION II - Commercial Air operations

Article 5 - Commercial air transport operators

- (1) An operator shall only operate an aircraft for the purpose of CAT operations if it holds an Air Operator Certificate issued in accordance with Regulation of the Civil Aviation Authority of Thailand No. 26 on the Air Operator Certificate and the Regulation of the Civil Aviation Authority of Thailand No. 27 on the Operation of Air Operator Certificate holder, and TCAR OPS Part ORO; and appropriate for the type of operations to be performed.
- (2) An operator shall only be issued a TCAR OPS Air Operator Certificate when it was found compliant with the detailed requirements contained in this cover regulation and in TCAR OPS Part ORO and Part CAT applicable to the type of operations to be performed.
- (3) An operator engaged in CAT operations starting and ending at the same aerodrome/operating site with Performance class B aeroplanes or non-complex helicopters shall only be issued a TCAR OPS Air Operator Certificate when it was found compliant with the detailed requirements contained in this cover regulation and in TCAR OPS Part ORO and Part CAT.
- (4) Air Operator Certificate may be limited, suspended or revoked when the holder does not comply with Section 41/120 and Section 41/121 of Air Navigation Act B.E. 2497 (as amended) and the applicable detailed requirements contained in this cover regulation and in TCAR OPS Part ORO and Part CAT applicable to the type of operations to be performed.

Article 5a – Cabin crew members

- (1) A person may only act as a cabin crew member in commercial air transport if he or she holds a valid cabin crew initial training certificate and a valid medical certificate appropriate to the operations to be performed and compliant to this cover regulation, TCAR OPS Part CC and applicable medical regulations.
- (2) A person shall only be issued a cabin crew initial training certificate according to TCAR OPS Part CC when he or she was found compliant with the detailed requirements contained in this cover regulation and in TCAR OPS Part CC.

Article 5b – Cabin crew instructors

- (1) A person may deliver cabin crew training only if he or she:
 - (a) holds an authorisation issued by:
 - (i) an appropriate training organisation approved by the CAAT; or
 - (ii) an AOC holder approved to deliver cabin crew initial training in accordance with TCAR OPS Part ORO.
 - (b) complies with the applicable requirements contained in TCAR OPS Part CC.

Article 5c – Cabin crew evaluators

- (1) A person may conduct cabin crew checking only if he or she:
 - (a) has been authorised:
 - (i) by an appropriate training organisation approved by the CAAT; or
 - (ii) by an AOC holder approved to deliver cabin crew initial training in accordance with TCAR OPS Part ORO;
 - (b) Complies with the applicable requirements contained in TCAR OPS Part CC.

Article 6 – Evidence-based training

To initiate mixed EBT programme, CAT operators shall have gained at least 12 months of operational experience with TCAR OPS.

Article 6a – Flight and duty times

- (1) Flight and duty time limitations apply to CAT shall be implemented in compliance with the detailed requirements contained in TCAR OPS Part ORO:
 - (a) For commercial air transport by aeroplanes for scheduled and charter operations, excluding emergency medical service (EMS), air taxi and single pilot operations, flight and duty time limitations shall be implemented in compliance with the detailed requirements contained in TCAR OPS Part ORO Subpart FTL.
 - (b) For CAT operations with helicopters, air taxi, emergency medical services and single pilot CAT operations; flight and duty time limitations shall be implemented in compliance with the detailed requirements contained in TCAR OPS Part ORO Subpart FTLS.
- (2) To apply for FRM approval, CAT operators shall have gained at least 24 months of operational experience with TCAR OPS.

SECTION III - Operations requiring specific approval

Article 7 - Operations requiring a specific approval

- (1) An Operator shall only operate an aircraft for the type of operations listed in (3) of this article if it holds a specific approval issued by the CAAT in accordance with TCAR OPS Part SPA;
- (2) An operator shall only be issued a TCAR OPS authorisation for operations requiring a specific approval when it was found compliant with the detailed requirements contained in this cover regulation and in TCAR OPS Part SPA applicable to the type of operations to be performed;
- (3) Specific approval from the CAAT is required for operations with:
 - (a) aeroplanes and helicopters used for:
 - (i) Operations in airspace, routes or approaches that require compliance with the following PBN Specifications:
 - RNP AR APCH; and
 - RNP 0.3 for helicopter operation
 - (ii) operations in airspace requiring compliance with minimum navigation performance specifications (MNPS);
 - (iii) operations in airspace where a reduced vertical separation minimum of 300 m (1000 ft) applies (RVSM);
 - (iv) Low-visibility operations (LVOs) and operations with operational credits;
 - (v) the transport of dangerous goods (DG);
 - (b) aeroplanes that are used for extended range operations/extended diversion time operations (ETOPS/EDTO) in CAT operations.
 - (c) helicopters used for:
 - (i) operations under VFR at night with the aid of night vision imaging systems (NVIS);
 - (ii) hoist operations (HHO);
 - (iii) emergency medical service operations (HEMS);
 - (iv) offshore operations for CAT operations, specialised operations and non-commercial operations with complex helicopters (HOFO);
 - (v) helicopter point-in-space approaches and departure with reduced VFR minima (PinS)
 - (d) single-engine turbine aeroplanes used for CAT operations at night or in instrument meteorological conditions (SET-IMC);
 - (e) aeroplanes and helicopters used for CAT operations with the use of a type B EFB application.
- (4) A specific approval may be limited, suspended or revoked when the holder does not comply with the applicable detailed requirements contained in this cover regulation and in TCAR OPS Part SPA as applicable to the type of operations to be performed.

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SECTION IV - Provisions for the transition

Article 8 - Entry into force and application

- (1) This cover regulation as well as TCAR OPS Parts, shall enter into force on 8 December 2023.
- (2) The TCAR OPS Air Operations regulation as well as TCAR OPS Parts shall be fully applicable and binding in their entirety from the 3 December 2026. Beyond this date, operators shall comply with the detailed requirements contained in this TCAR OPS Air Operations regulation and TCAR OPS Parts and shall have obtained, from the CAAT, the appropriate certificate, approval or authorisation issued in accordance with this TCAR OPS Air Operations regulation and TCAR OPS Parts as applicable.
- (3) Between the date in (1) and the date in (2), the transition period operators shall comply with the provisions contained in this Section.
- (4) This transition period is applicable for the existing AOC holder and the applicant who already apply before 3 December 2023.
- (5) AOC applicants who submit AOC Application before 3 December 2023 may obtain an AOC issued in accordance with the regulations in force before the entry into force of this cover regulation and TCAR OPS Parts as specified in Article 10.

Article 8a – Transition for cabin crew, CC instructor/evaluator

- (1) To continue exercising their privileges as a cabin crew member for commercial air transport operations after the 3 December 2026, cabin crew members shall have obtained a cabin crew initial training certificate issued in accordance with TCAR OPS Part CC, from an AOC holder or an organisation authorised to issue such certificate.
- (2) A person nominated or designated by an operator as senior cabin crew member before 3 December 2026 in accordance with the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall be considered by the CAAT as meeting the prerequisite requirements contained in TCAR OPS Parts for the same position.
- (3) Transition for instructors/evaluators
 - (a) To continue exercising the privileges for checking cabin crew members and corresponding instructors after 30 September 2025, evaluators shall meet the requirements contained in TCAR OPS Part CC and ORO.
 - (b) To continue exercising the privileges of an instructors for cabin crew training after 30 September 2025, instructors shall meet the requirements contained in TCAR OPS Part CC and ORO.

Article 9 - Equivalence of regulations

- (1) During the transition period, when compliance with the detailed requirements contained in this cover regulation and in TCAR Parts has been demonstrated to the CAAT:
 - (a) for a training programme or course for flight crew, cabin crew member and flight operations officers, as well as corresponding instructors and examiners;
 - (b) for checking and assessment of flight crew, cabin crew member and flight operations officers as well as corresponding instructors and evaluators;
 - (c) for the requirements applicable to air operators in terms of organisation, management system, personnel, facilities as well as manuals, operating procedures and records;

- (d) for crew composition;
- (e) for specific approvals;
- (f) for flight time limitations;
- (g) for performance and operating limitations;
- (h) for instrument, data and equipment;
- (i) for ground handling operations.

It shall be considered by the CAAT that compliance with corresponding requirements in regulations in force before the entry into force of this cover regulation and TCAR OPS Parts, is also achieved.

- (2) Operators may propose to comply with some provisions of TCAR OPS Air operations regulation and TCAR OPS Parts by anticipation without waiting for limit dates listed in this section. This shall be formally agreed by the CAAT.
- (3) In such cases the CAAT may impose any related requirement.

Article 10 - Application to obtain an AOC

- (1) Applicants for an AOC who already submitted the required documentation to demonstrate compliance with the regulation in force before the entry into force of this cover regulation and TCAR OPS Part DEF, ORO, CAT, SPA and CC:
 - (a) may continue the demonstration of compliance using as reference the regulation in force before the entry into force of this TCAR OPS Air Operation regulation and TCAR OPS Parts;
 - (b) shall complete the demonstration of compliance in (a) and obtain the corresponding AOC issued in accordance with the regulation in force before the entry into force of this TCAR OPS Air Operation regulation and TCAR OPS Parts not later than 31 March 2025;
 - (c) shall provide a plan for the transition to TCAR OPS Air Operation regulation and TCAR OPS Parts before to obtain an AOC issued in accordance with the regulation in force before the entry into force of this TCAR OPS Air Operation regulation and TCAR OPS Parts;
 - (d) The transition plan in (c) shall consider the relevant dates not to exceed in article 27 and shall be accepted by the CAAT.
- (2) Unless formally agreed with the CAAT, applicants for an AOC who already applied before the entry into force of this TCAR OPS Air Operation regulation and TCAR OPS Parts but did not submit the required documentation to demonstrate compliance with the regulation in force before the entry into force of this TCAR OPS Air Operation regulation and TCAR OPS Parts shall submit their documentation and shall demonstrate compliance with this TCAR OPS Air operation regulation and TCAR OPS Parts. When it is agreed between the CAAT and the applicant to continue the demonstration of compliance with the regulation in force before the entry into force of this cover regulation and TCAR OPS Part DEF, ORO, CAT, SPA and CC; then the provision contained in (1) (b) to (d) shall be applicable.
- (3) Applicants for an AOC applying after the entry into force of this cover regulation and TCAR OPS Part DEF, ORO, CAT, SPA and CC shall demonstrate compliance with this cover regulation and TCAR OPS Part DEF, ORO, CAT, SPA and CC to obtain an AOC.
- (4) By derogation to (2) and (3), the applicants may establish flight operations officer/dispatcher training programmes in accordance with the regulation in force before the entry into force of this cover regulation and TCAR OPS DEF, ORO, CAT, SPA and CC to demonstrate compliance and obtain an AOC issued in accordance with the regulation in force before the entry into force of this this cover regulation and TCAR OPS DEF, ORO, CAT, SPA and CC.

In this case, to continue CAT operations after 3 December 2026, the applicant shall consider the relevant provision detailed in article 27 to obtain AOC issued in accordance with this cover regulation and TCAR OPS Parts.

Article 11 - Change management and transition plan to TCAR OPS

- (1) CAT operators shall perform a change management process before implementing the organisational, procedural and documentation changes planned to comply with this cover regulation and TCAR OPS Part DEF, ORO, CAT, SPA and CC. This change management process shall, in particular, assess and mitigate:
 - (a) the risk of pairing of crews with different levels of training;
 - (b) the risk that members of a same crew use different procedures.
- (2) CAT operators shall plan for the transition to TCAR OPS Part DEF, ORO, CAT, SPA and CC considering the dates not to exceed in article 27.
- (3) CAT operators shall provide to the CAAT, not later than 6 months after the entry into force of this Regulation, their detailed transition plan including the date at which full compliance with this cover regulation and TCAR OPS Part DEF, ORO, CAT, SPA and CC is planned to be achieved.

Article 12 - Management system

- (1) CAT operators approved before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall comply with the following requirements during the transition period:
 - (a) Personnel involved in compliance monitoring shall have received a training to TCAR OPS provisions, accepted by the CAAT, before submission of any TCAR OPS compliance data or 30 April 2024, whichever occurs first;
 - (b) The compliance monitoring programme of the 12 months preceding the planned operator compliance date shall be implemented using the detailed requirements contained in this cover regulation and TCAR OPS Parts. Such programme shall be completed no later than 30 September 2026 to demonstrate the full compliance with TCAR OPS.
 - (c) Documents submitted to the CAAT to demonstrate compliance to this cover regulation and corresponding TCAR OPS Parts, in particular, the operations manual, shall be supported by a statement from the compliance manager that the documents submitted were verified and found in compliance with the detailed requirements contained in this cover regulation and TCAR OPS Parts.

Article 13 - Use of operating procedures

Revised procedures applicable to flight crews, cabin crew members and flight operations officers contained in Operations Manual (OMA and OMB) to comply with this cover regulation and corresponding TCAR OPS Parts shall not be implemented until the flight crews, cabin crew members and flight operations officers involved have been trained to these procedures.

Article 14 - Validity of training delivered before the entry into force of TCAR OPS

Trainings delivered to personnel involved in operations of aircraft, including management personnel and other personnel of an operator delivered before the entry into force of this cover regulation and corresponding TCAR OPS Parts in accordance with training programmes approved by the CAAT in accordance with the regulations in force at that time may be considered as valid to demonstrate compliance with the equivalent requirements of TCAR OPS Parts.

Article 14a - Flight crew requirements for maintenance check flights

A pilot having acted, before 3 December 2026, as a pilot-in-command on a maintenance check flight that in accordance with the definition in point SPO.SPEC.MCF.100 in TCAR OPS Part SPO is categorised as a Level A maintenance check flight, shall be given credit for the purpose of complying with point SPO.SPEC.MCF.115(a)(1) of that TCAR OPS Part SPO. In that case, the operator shall ensure that the pilot-in-command receives a briefing on any differences identified between the previous operating practices established and the obligations provided in TCAR OPS Part SPO Section 5 Maintenance check flights (MCFs).

Article 15 - Validity of flight crew training, qualifications and nomination delivered by CAT operators before the entry into force of TCAR OPS

- (1) Trainings listed in (3) of this article, that were delivered to Flight crews by CAT operators, before the entry into force of this cover regulation and corresponding TCAR OPS Parts in accordance with training programmes approved by the CAAT in accordance with the regulations applicable before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall remain valid and shall be considered as compliant with the corresponding requirements of TCAR OPS Part ORO.
- (2) Notwithstanding (1) of this article, for trainings listed in (3) of this article delivered to Flight crews by CAT operators, after the entry into force of this cover regulation and corresponding TCAR OPS Parts and complying with the following requirements shall remain valid and shall be considered as compliant with corresponding TCAR OPS requirements provided:
 - (a) The training and the corresponding checking are successfully completed not later than 30 June 2027; and
 - (b) The training is delivered in accordance with training programmes approved by the CAAT in accordance with the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts.
- (3) Training stated in (1) and (2) are:
 - (a) Crew resource management courses;
 - (b) Type rating training course containing-operator's conversion training;
 - (c) Differences and familiarisation training;
 - (d) Commander course training;
 - (e) The training to operate from a particular seat;
 - (f) Upset prevention and recovery training;
 - (g) Training to security;
 - (h) Training for operations on more than one type or variant;
 - (i) Training to dangerous goods;
 - (j) Training to operations requiring specific approvals unless specified otherwise in this TCAR OPS Air operation regulation.
- (4) A person nominated or designated by an operator as PIC or commander for supervision and checking of line flying before 3 December 2026 in accordance with the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall be considered by the CAAT as meeting the prerequisite requirements contained in TCAR OPS Parts for the same position.

Article 16 - Validity of cabin crew training, qualifications and nomination delivered by CAT operators

- (1) Trainings listed in (3) of this article, that were delivered to cabin crew members by CAT operators, before the entry into force of this cover regulation and corresponding TCAR OPS Parts in accordance with training programmes approved by the CAAT in accordance with the regulation applicable before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall remain valid and shall be considered as compliant with the corresponding requirements of TCAR OPS Parts
- (2) Notwithstanding (1) of this article, for trainings listed in (3) of this article that were delivered to cabin crew members by CAT operators, after the entry into force of this cover regulation and corresponding TCAR OPS Parts and complying with the following requirements shall remain valid and shall be considered as compliant with the corresponding requirements of TCAR OPS Parts:
 - (a) The training and the corresponding checking are successfully completed not later than 3 December 2026; and
 - (b) The training is delivered in accordance with training programmes approved by the CAAT in accordance with the regulation in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts
- (3) Training stated in (1) and (2) are:
 - (a) Crew resource management courses;
 - (b) Operator's conversion training;
 - (c) Aircraft type specific training;
 - (d) Differences and familiarisation training;
 - (e) Training to Dangerous goods.
- (4) Initial cabin crew training and checking are completed on or before the 3 December 2026 and delivered in accordance with a training programme approved by the CAAT in accordance with the regulations in force before the entry into force of this cover regulation and TCAR OPS Parts shall be considered as equivalent to the initial training required by TCAR OPS Part CC. Applicants shall be given full credit for these training for obtaining a TCAR OPS Part CC cabin crew initial training certificate.
- (5) Unless formally accepted by the CAAT, cabin crew initial training commenced after the 30 September 2026 shall be delivered in accordance with training programmes compliant with TCAR OPS Part CC and by instructors qualified in accordance with TCAR OPS Part CC.
- (6) For the initial cabin crew training that could not be completed before 3 December 2026, applicants shall obtain a credit of the previous training syllabus and shall be allowed to continue and complete the training and checking in accordance with TCAR OPS Part CC in an AOC or organisation authorised to deliver CC initial training. This requires to perform an assessment of the applicant to define the training to be credited and to identify the training needs. It should be based on the relevant training syllabus established in accordance with TCAR OPS Part CC.
- (7) A person nominated or designated by an operator as senior cabin crew member, CC instructor/evaluator before 3 December 2026 in accordance with the regulations in force before the entry into force of TCAR OPS Air Operations regulation and TCAR OPS Parts shall be considered by the CAAT as meeting the prerequisite requirements contained in TCAR OPS Parts for the same position.

Article 17 - Validity of flight operations officer training delivered by CAT operators before the entry into force of TCAR OPS

- (1) Trainings listed in (3) of this article, that were delivered to Flight operations officers by CAT operators, before the entry into force of this cover regulation and corresponding TCAR OPS Parts in accordance with training programmes approved by the CAAT in accordance with the regulation applicable before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall remain valid and shall be considered as compliant with the corresponding requirements of TCAR OPS Part ORO.
- (2) Notwithstanding (1) of this article, for trainings listed in (3) of this article that were delivered to Flight operations officers by CAT operators, after the entry into force of this cover regulation and TCAR OPS Parts and complying with the following requirements shall remain valid and shall be considered as compliant with the corresponding requirements of TCAR OPS Part ORO:
 - (a) The training and the corresponding checking are successfully completed not later than 30 June 2026; and
 - (b) The training is delivered in accordance with training programmes approved by the CAAT in accordance with the regulation in force before the entry into force of this cover regulation and TCAR OPS Parts.
- (3) Training stated in (1) and (2) are:
 - (a) Operator's conversion training;
 - (b) Differences and familiarisation training;
 - (c) New route/destination training;
 - (d) Training to dangerous goods;
 - (e) Training to operations requiring specific approvals unless specified otherwise in this TCAR OPS Air operation regulation.
- (4) For Initial Flight operations officers training and the corresponding checking performed by CAT operators and completed before the 30 June 2026, in accordance with training programmes approved by the CAAT, in accordance with the regulation in force before the entry into force of this cover regulation and TCAR OPS Parts, shall be considered as compliant with the equivalent requirements of TCAR OPS Part ORO and TCAR PEL Part FOO.

Article 18 - Validity of cabin crew training delivered by other operators than CAT operators before the entry into force of TCAR OPS

- (1) For cabin crew members, not holding a valid cabin crew initial training certificate, who have already acquired experience as cabin crew member in operations other than CAT, credit may be granted to the elements of the initial training programme he/she has previously completed if such training elements are documented in his/her training records.
- (2) In such a case, the operator should ensure that:
 - (a) the full training programme, as specified in TCAR OPS Part CC, has been covered; and
 - (b) cabin crew member passed the associated examination.
- (3) Credits granted in accordance with (1) of this article shall be considered as valid to obtain a cabin crew initial training certificate

Article 19 - Training to TCAR OPS

The training programmes for flight crews, cabin crew members, flight operations officers and other personnel shall include the necessary elements for the transition to TCAR OPS.

Article 20 - Validity of specific approvals granted before the entry into force of TCAR OPS

- (1) During the transition period, operators who obtained specific approvals in accordance with the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts may continue to perform such operations, until 3 December 2026 or until they obtain a TCAR OPS AOC, whichever occurs first. After this date they shall only perform operations for which they are authorised in accordance with their TCAR OPS Part ORO Subpart AOC.
- (2) The detailed requirements for the issuance of some specific approvals contained in TCAR OPS Part SPA being equivalent to the provisions contained in the regulations applicable before the entry into force of this cover regulation and corresponding TCAR OPS Parts, these specific approvals granted in accordance with previous regulations shall be considered by the CAAT as compliant with the detailed requirements contained in this cover regulation and corresponding TCAR OPS Parts and shall not require any specific demonstration from the operator to obtain the corresponding TCAR OPS specific approval.
- (3) The specific approvals stated in (2) are:
 - (a) The following Performance-Based Navigation (PBN) approvals:
 - (i) RNP AR APCH for aeroplanes and helicopters; or
 - (ii) RNP 0.3 for helicopters.
 - (b) Operations in Airspace with Reduced Vertical Separation Minima (RVSM);
 - (c) Dangerous Goods;
 - (d) Single-Engine Turbine Aeroplane Operations at Night or Instrument Meteorological Conditions (SET-IMC);
 - (e) Helicopters Emergency Medical Service Operations (HEMS).

Article 21 - Granting of a specific approval during the transition period

- (1) During the transition period, Specific approvals may continue to be granted to operators in accordance with the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts until 31 December 2025. Such specific approvals shall be added to the Operations specifications or Specific Approval issued in accordance with the regulations in force before the entry into force this cover regulation and TCAR OPS Parts.
- (2) From the 01 January 2026, specific approvals shall be granted using the detailed requirements contained in this cover regulation and in TCAR OPS Part SPA. In accordance with article 9 on the equivalence of the regulations, such specific approval shall be added to the operations specifications or specific approval issued in accordance with the regulations in force before the entry into force this cover regulation and corresponding TCAR OPS Parts.
- (3) Any specific approval granted using the detailed requirements contained in this corresponding regulation and in TCAR OPS Part SPA, as specified in (2) of this article shall be added to the Operations Specifications or Specific Approval issued in accordance with TCAR OPS without requiring further demonstration for the issuance of their TCAR OPS AOC or TCAR OPS specific approval as applicable to the type of operations.
- (4) Notwithstanding (2), specific approvals for PBN operations listed in Article 22 (2) may continue to be granted for additional PBN navigation specifications beyond 01 January 2026. In such cases the approval shall be granted using the detailed requirements contained in the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts until the operator obtains an AOC or authorisation issued in accordance with TCAR OPS.

Article 22 - Specific approvals for PBN operations

- (1) For commercial air transport operators, to continue performing those PBN operations that require a specific approval according to the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts but do not require a specific approval in accordance with TCAR OPS Air Operations regulation and TCAR OPS Parts, operators shall:
 - (a) Hold the appropriate specific approval in the operations specifications attached to their AOCs, issued in accordance with the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts until issuance of TCAR OPS AOC;
 - (b) continue to operate for the approved PBN operations in accordance with the procedures approved in accordance with the regulations applicable before the entry into force of this cover regulation and corresponding TCAR OPS Parts until issuance of TCAR OPS AOC.
- (2) PBN operations mentioned in (1) that require a specific approval according to the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts but do not require a specific approval in accordance with this cover regulation and TCAR OPS Parts are:
 - (a) RNAV 10;
 - (b) RNAV 5;
 - (c) RNAV 2;
 - (d) RNAV 1;
 - (e) RNP 4;
 - (f) RNP 2;
 - (g) RNP 1;
 - (h) A-RNP;
 - (i) RNP APCH (LNAV);
 - (j) RNP APCH (LNAV/VNAV);
 - (k) RNP APCH (LP);
 - (l) RNP APCH (LPV).
- (3) PBN operations mentioned in (2) do not require a specific approval in accordance with this cover regulation and corresponding TCAR OPS Parts. The corresponding PBN specification will not be endorsed on the operations specifications attached to an AOC granted to a CAT operator or on the specific approval granted to other operators. However, operators shall comply with the detailed requirements for airworthiness approval, crew training, operating procedures and monitoring programs as required in TCAR OPS Part ORO, Part CAT, Part NCC, Part NCO or SPO as applicable to the type of PBN operations to be performed.

Article 23 - Specific approvals for MNPS operations

For commercial air transport operators, to continue performing MNPS operations, operators shall:

- (1) Hold the appropriate specific approval in the operations specifications attached to their AOCs, issued in accordance with the regulations in force before the entry into force of this cover regulation and TCAR OPS Parts until issuance of TCAR OPS AOC;
- (2) continue to operate for the approved MNPS operations in accordance with the procedures approved in accordance with the regulations applicable before the entry into force of this cover regulation and TCAR OPS Parts until issuance of TCAR OPS AOC.

Article 24 - Specific approvals for LVOs and operations with operational credits

- (1) CAT operators holding specific approvals for LVO operations issued by the CAAT may continue to operate in accordance with the regulations in force before the entry into force of this cover regulation and TCAR OPS Parts until 3 December 2026 or until the issuance of their TCAR OPS AOC, whichever occurs first.
- (2) To continue to perform LVO operations after the date mentioned in (1), operators shall obtain a specific approval appropriate to the LVO operations to be performed and issued by the CAAT in accordance with the detailed requirements contained in this cover regulation and TCAR OPS Part SPA.
- (3) For operators holding specific approvals for LVO operations issued by the CAAT in accordance with the regulations in force before the entry into force of this cover regulation and TCAR OPS Parts shall:
 - (a) Provide LVOs performance monitoring data and the assessment of suitability of aerodrome including instrument flight procedures data acquired using TCAR OPS approved procedure and flight crew holding TCAR PEL licence and trained to TCAR OPS procedures;
 - (b) The LVOs performance monitoring data and the assessment of suitability of aerodrome including flight instrument procedures data required to obtain the corresponding LVO operations specific approval shall be agreed on a case-by-case basis with the CAAT.
- (4) Experience gained in LVO operations by an operator holding an AOC issued in accordance with the regulations in force before the entry into force of this cover regulation and TCAR OPS Parts may be considered as valid by the CAAT for the issuance of a LVO specific approval.

Article 25 – ETOPS/EDTO Two and more- engines aeroplanes used for extended range operations/extended diversion time operations (ETOPS/EDTO).

- (1) CAT operators holding specific approvals for ETOPS/EDTO operations issued by the CAAT may continue to operate in accordance with the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts until 3 December 2026 or until the issuance of their TCAR OPS AOC, whichever occurs first.
- (2) To continue to perform ETOPS/EDTO operations after the date mentioned in (1), operators shall obtain a specific approval appropriate to the ETOPS/EDTO operations to be performed and issued by the CAAT in accordance with the detailed requirements contained in this cover regulation and TCAR OPS Part SPA.
- (3) To obtain a specific approval for ETOPS/EDTO operations, operators shall demonstrate compliance with applicable provisions contained in this cover regulation and corresponding TCAR OPS Parts.
- (4) Notwithstanding (3), when operators justify that the TCAR OPS ETOPS/EDTO procedures are identical to the ETOPS/EDTO procedures approved in accordance with the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts, the operational demonstration may be reduced by the CAAT to:
 - (a) At least one demonstration flight for each airframe/engine combination (AEC) to assess the operational control and in-flight monitoring; and
 - (b) A session in appropriate FSTD for each airframe/engine combination (AEC) to assess the necessary emergency procedures specific to ETOPS/EDTO operations;
 - (c) The demonstration flight in (a) may be performed during CAT ETOPS/EDTO operations.
- (5) Experience gained in ETOPS/EDTO operations by an operator holding an AOC issued in accordance with the regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts may be considered as valid by the CAAT for the issuance of ETOPS/EDTO specific approval.

Article 26 - Type B EFB application by a CAT operator.

- (1) CAT operators holding specific approval for using a type B EFB application issued by CAAT may continue to operate in accordance with the regulation in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts until 3 December 2026 or until the issuance of their TCAR OPS AOC, whichever occurs first.
- (2) Operational evaluation test data submitted for the issuance of the type B EFB application approval in accordance with the regulation in force before the entry into force of this this cover regulation and corresponding TCAR OPS Parts may be used for the issuance of the new type B EFB application approval, where applicable.
- (3) If operational evaluation test data as mentioned in (2) do not demonstrate compliance to TCAR OPS Part SPA, additional data shall be provided to the CAAT to demonstrate compliance to TCAR OPS Part SPA.
- (4) For additional data mentioned in (3), the in-service proving period may be reduced to 2 months.

Article 27 - Transition for commercial air transport operations

- (1) To continue exercising their privileges as a CAT operator, holders of AOCs issued by the CAAT according to regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall comply:
 - (a) with the provisions contained in article 11 of this regulation;
 - (b) with the provisions contained in article 12 of this regulation.
- (2) To continue exercising their privileges as a CAT operator, holders of AOCs issued by the CAAT according to regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall submit their Operations Manual Part A not later than 31 December 2024. Such operator shall obtain approval/acceptance of this manual from the CAAT in accordance with TCAR OPS Part ORO not later than 31 March 2025.
- (3) To continue exercising their privileges as a CAT operator, holders of AOCs issued by the CAAT according to regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall:
 - (a) verify the compliance to TCAR OPS Part CAT Subpart IDE of each aircraft in their fleet and for each aircraft that enters their fleet during the transition;
 - (b) the verification in (a) shall also include the compliance to the other specific requirements of TCAR OPS Part SPA as applicable to type of operations authorised to be performed with a specific aircraft;
 - (c) provide the corresponding status containing the status of compliance required in (a) and (b) to the CAAT, not later than 31 December 2024;
 - (d) in case the status in (c) contains non-compliances with TCAR OPS Part CAT Subpart IDE, the operator shall include in its transition plan as referred to in article 11 the necessary actions for making the aircraft compliant with TCAR OPS Part CAT subpart IDE. This plan shall demonstrate that the concerned aircraft will comply with TCAR OPS Part SPO Subpart IDE not later than 3 December 2026;
 - (e) in case the status in (c) shows non-compliances with TCAR OPS Part SPA requirement related to instrument data and equipment but demonstrates compliance with the regulations in force before the entry into force of this TCAR OPS Air Operations regulation and TCAR OPS Parts, the operator shall:
 - (i) inform the CAAT of its intention to continue or not the operations requiring the specific approval for which an aircraft is not compliant in term of instrument, data and equipment;
 - (ii) In the case the operator is willing to continue such operations, the operator shall include in its transition plan as referred to in article 11 the necessary actions for making the aircraft compliant with TCAR OPS Part SPA. This plan shall demonstrate that the concerned aircraft will comply with the requirements of TCAR OPS Part SPA, applicable to the type of operations, not later than 3 December 2026 or the target date to obtain the TCAR OPS AOC, whichever occurs first
- (4) To continue exercising their privileges as a CAT operator, holders of AOCs issued by the CAAT according to regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall demonstrate to the CAAT that their facilities, organisation and Management system are compliant with TCAR OPS Part ORO (except ORO.GEN.200 (a) (3)) not later than 30 September 2026.

- (5) To continue exercising their privileges as a CAT operator, holders of AOCs issued by the CAAT according to regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall submit their Operations Manual Part B and C not later than 31 March 2025. Such operator shall obtain approval/acceptance of these manuals from the CAAT in accordance with TCAR OPS Part ORO not later than 30 June 2025.
- (6) To continue exercising their privileges as a CAT operator, holders of AOCs issued by the CAAT according to regulations in force before the entry into force of this TCAR OPS Air Operations regulation and TCAR OPS Parts shall:
 - (a) submit their Operations Manual Part D not later than 30 June 2025 and shall obtain approval by the CAAT in accordance with TCAR OPS Part ORO and Part CC, when applicable, not later than 30 September 2025.

The training programmes for flight crews, cabin crew members, flight operations officers contained in OM-D shall include the necessary training for the transition to this cover regulation and corresponding TCAR OPS Parts;
 - (b) have their flight crew and flight operation officer's instructors involved in training qualified in accordance the detailed requirements contained in TCAR PEL and TCAR PEL Parts; and standardised according to the approved Operations Manual Part D not later than 31 March 2026;
- (7) To continue exercising their privileges as a CAT operator, holders of AOCs issued by the CAAT according to regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts, shall continue to comply with the applicable airworthiness and maintenance requirements.
- (8) To continue exercising their privileges as a CAT operator beyond the 3 December 2026, holders of AOCs issued by the CAAT according to regulations in force before the entry into force of this cover regulation and corresponding TCAR OPS Parts shall demonstrate to the CAAT full compliance with this cover regulation and TCAR OPS Part ORO, Part CAT Part SPA, and Part CC and shall have received the corresponding TCAR OPS AOC as well as the corresponding Operations Specifications.
- (9) The content of the manuals referred to in (2), (5) and (6) shall be approved or accepted only after these have been found compliant with the detailed requirements contained in this cover regulation and in TCAR OPS Part ORO, Part CAT Part SPA, and Part CC as applicable to the type of operations to be performed.
- (10) By way of derogation from point (9) CAT operators shall demonstrate compliance with TCAR OPS Part CAT, CAT.GEN.MPA.170, CAT.GEN.MPA.175 (b) and (c) and CAT.GEN.MPA.215 (a) before 31 December 2028.

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Annex 01 Essential requirements for air operations

1. GENERAL

- 1.1. A flight must not be performed if the crew members and, as appropriate, all other operations personnel involved in its preparation and execution are not familiar with applicable laws, regulations and procedures, pertinent to the performance of their duties, prescribed for the areas to be traversed, the aerodromes planned to be used and the air navigation facilities relating thereto.
- 1.2. A flight must be performed in such a way that the operating procedures specified in the Flight Manual or, where required the Operations Manual, for the preparation and execution of the flight are followed.
- 1.3. Before every flight, the roles and duties of each crew member must be defined. The pilot in command must be responsible for the operation and safety of the aircraft and for the safety of all crew members, passengers and cargo on board.
- 1.4. Articles or substances, which are capable of posing a significant risk to health, safety, property or the environment, such as dangerous goods, weapons and ammunition, must not be carried on any aircraft, unless specific safety procedures and instructions are applied to mitigate the related risks.
- 1.5. All necessary data, documents, records and information to record the respect of the conditions specified in point 5.3 must be retained for each flight and kept available and protected against unauthorised modification for a minimum period of time compatible with the type of operation.

2. FLIGHT PREPARATION

A flight must not be commenced unless it has been ascertained by reasonable means available that all the following conditions are complied with:

- 2.1. adequate facilities directly required for the flight and for the safe operation of the aircraft, including communication facilities and navigation aids, are available for the execution of the flight, taking into account available Aeronautical Information Services documentation;
- 2.2. the crew must be familiar with and passengers informed of the location and use of relevant emergency equipment. Sufficient information, related to the operation and specific to the equipment installed, regarding emergency procedures and use of cabin safety equipment must be made available to crew and passengers;
- 2.3. the pilot in command must be satisfied that:
 - (i) the aircraft is airworthy as specified in point 6;
 - (ii) if required, the aircraft is duly registered and that appropriate certificates with respect thereto are aboard the aircraft;
 - (iii) instruments and equipment as specified in point 5 required for the execution of that flight are installed in the aircraft and are operative, unless waived by the applicable MEL or equivalent document;
 - (iv) the mass of the aircraft and centre of gravity location are such that the flight can be conducted within limits prescribed in the airworthiness documentation;
 - (v) all cabin baggage, hold luggage and cargo is properly loaded and secured; and
 - (vi) the aircraft operating limitations as specified in point 4 will not be exceeded at any time during the flight;
- 2.4. information regarding meteorological conditions for departure, destination and, where applicable, alternate aerodromes, as well as en-route conditions, must be available to the flight crew. Special attention must be given to potentially hazardous atmospheric conditions;

- 2.5. appropriate mitigation measures or contingency plans must be in place to deal with potentially hazardous atmospheric conditions expected to be encountered in flight;
- 2.6. for a flight based on visual flight rules, meteorological conditions along the route to be flown must be such as to render compliance with those flight rules possible. For a flight based on instrument flight rules a destination and where applicable alternate aerodrome(s) where the aircraft can land must be selected, taking into account in particular the forecasted meteorological conditions, the availability of air navigation services, the availability of ground facilities and the instrument flight procedures approved by the State in which the destination and/or alternate aerodrome is located;
- 2.7. the amount of fuel/energy for propulsion and consumables on board must be sufficient to ensure that the intended flight can be completed safely, taking into account the meteorological conditions, any element affecting the performance of the aircraft and any delays that are expected in flight. In addition, a fuel/energy reserve must be carried to provide for contingencies. Procedures for in-flight fuel/energy management must be established when relevant.

3. FLIGHT OPERATIONS

With regard to flight operations, all the following conditions must be complied with:

- 3.1. where relevant for the type of aircraft, during take-off and landing, and whenever deemed necessary by the pilot in command in the interest of safety, each crew member must be seated at their crew station and must use the provided restraint systems;
- 3.2. where relevant for the type of aircraft, all flight crew members required to be on flight deck duty must be and remain at their station, with their seatbelts fastened except en-route for physiological or operational needs;
- 3.3. where relevant for the type of aircraft and the type of operation, before take-off and landing, during taxiing and whenever deemed necessary in the interest of safety, the pilot in command must ensure that each passenger is properly seated and secured;
- 3.4. a flight must be performed in such a way that appropriate separation from other aircraft is maintained and that adequate obstacle clearance is ensured, during all phases of the flight. Such separation must at least be those required by the applicable rules of the air, as appropriate to the type of operation;
- 3.5. a flight must not be continued unless known conditions continue to be at least equivalent to those in point 2. Furthermore, for a flight based on instrument flight rules, an approach toward an aerodrome must not be continued below certain specified heights or beyond a certain position, if prescribed visibility criteria are not met;
- 3.6. in an emergency, the pilot in command must ensure that all passengers are instructed in such emergency action as may be appropriate to the circumstances;
- 3.7. a pilot in command must take all necessary measures so as to minimise the consequences on the flight of disruptive passenger behaviour;
- 3.8. an aircraft must not be taxied on the movement area of an aerodrome, or its rotor must not be turned under power, unless the person at the controls is appropriately competent;
- 3.9. the applicable in-flight fuel/energy management procedures must be used, when relevant.

4. AIRCRAFT PERFORMANCE AND OPERATING LIMITATIONS

- 4.1. An aircraft must be operated in accordance with its airworthiness documentation and all related operating procedures and limitations as expressed in its approved flight manual or equivalent documentation, as the case may be. The flight manual or equivalent documentation must be available to the crew and kept up to date for each aircraft.
- 4.2. Notwithstanding point 4.1, for operations with helicopters a momentary flight through the limiting height velocity envelope may be permitted, provided that safety is ensured.
- 4.3. The aircraft must be operated in accordance with the applicable environmental documentation.
- 4.4. A flight must not be commenced or continued unless the aircraft's scheduled performance, considering all factors which significantly affect its performance level, allows all phases of flight to be executed within the applicable distances/areas and obstacle clearances at the planned operating mass. Performance factors which significantly affect take-off, en-route and approach/landing are, particularly:
 - (i) operating procedures;
 - (ii) pressure altitude of the aerodrome;
 - (iii) weather conditions (temperature, wind, precipitation and visual range);
 - (iv) size, slope and condition of the take-off/landing area; and
 - (v) the condition of the airframe, the power plant or the systems, taking into account possible deterioration.
- 4.5. Such factors must be taken into account directly as operational parameters or indirectly by means of allowances or margins, which may be provided in the scheduling of performance data, as appropriate to the type of operation.

5. INSTRUMENTS, DATA AND EQUIPMENT

- 5.1. An aircraft must be equipped with all navigation, communication and other equipment necessary for the intended flight, taking account of air traffic regulations and rules of the air applicable during any phase of the flight.
- 5.2. When relevant, an aircraft must be equipped with all necessary safety, medical, evacuation and survival equipment, taking account of the risks associated to the areas of operation, the routes to be flown, the flight altitude and the duration of the flight.
- 5.3. All data necessary for the execution of the flight by the crew must be updated and available on board the aircraft taking account of applicable air traffic regulations, rules of the air, flight altitudes and areas of operation.

6. CONTINUING AIRWORTHINESS AND ENVIRONMENTAL COMPATIBILITY OF PRODUCTS

- 6.1. The aircraft must not be operated unless:
- (i) the aircraft is airworthy and in a condition for safe and environmentally compatible operation;
 - (ii) the operational and emergency equipment necessary for the intended flight is serviceable;
 - (iii) the airworthiness document and, if applicable, the noise certificate of the aircraft is valid; and
 - (iv) the maintenance of the aircraft is performed in accordance with the applicable requirements.
- 6.2. Before each flight or a series of consecutive flights, the aircraft must be inspected, through a pre-flight check, to determine whether it is fit for the intended flight.
- 6.3. The aircraft must not be operated unless it is released to service by qualified persons or organisations, after maintenance. The signed release to service must contain in particular, the basic details of the maintenance carried out.
- 6.4. Records necessary to demonstrate the airworthiness and environmental compatibility status of the aircraft must be kept, and protected against, unauthorised modification for the period of time corresponding to the applicable continuing airworthiness requirements, until the information contained has been superseded by new information equivalent in scope and detail but in any event not less than 24 months.
- 6.5. All modifications and repairs must comply with the essential requirements for airworthiness and, if applicable, the environmental compatibility of products. The substantiating data supporting compliance with the airworthiness requirements and requirements for the environmental compatibility of products must be retained and protected against unauthorised modification.
- 6.6. It is the responsibility of the aircraft operator to ensure that a third party performing the maintenance complies with the operator's safety and security requirements.

7. CREW MEMBERS

- 7.1. The number and composition of the crew must be determined taking into account:
- (i) the certification limitations of the aircraft, including if applicable, the relevant emergency evacuation demonstration;
 - (ii) the aircraft configuration; and
 - (iii) the type and duration of operations.
- 7.2. The pilot in command must have the authority to give all commands and take any appropriate actions for the purpose of securing the operation and the safety of the aircraft and of persons and/or property carried therein.
- 7.3. In an emergency situation, which endangers the operation or the safety of the aircraft and/or persons on board, the pilot in command must take any action he/she considers necessary in the interest of safety. When such action involves a violation of local regulations or procedures, the pilot in command must be responsible for notifying the appropriate local authority without delay.
- 7.4. Without prejudice to point 9.12, when other persons are carried on board, emergency or abnormal situations may only be simulated if those persons have been duly informed and are aware of the associated risks before boarding the flight.
- 7.5. No crew member must allow their task achievement/decision making to deteriorate to the extent that flight safety is endangered because of the effects of fatigue, taking into account, inter alia, fatigue accumulation, sleep deprivation, number of sectors flown, night duties or time zone changes. Rest periods must provide sufficient time to enable crew members to overcome the effects of the previous duties and to be well rested by the start of the following flight duty period.
- 7.6. A crew member must not perform allocated duties on board an aircraft when under the influence of psychoactive substances or alcohol or when unfit due to injury, fatigue, medication, sickness or other similar causes.

8. CABIN CREW MEMBER

8.1. General

A person undertaking training to act as a cabin crew member in an aircraft must be sufficiently mature educationally, physically and mentally to acquire, retain and demonstrate the relevant theoretical knowledge and practical skills.

8.2. Training course

- (i) When appropriate for the type of operations or privileges, training must be executed through training course.
- (ii) A training course must meet the following conditions:
 - a syllabus must be developed for each type of course; and
 - the training course must comprise a breakdown of theoretical knowledge and practical instruction (including synthetic training), if applicable.

8.3. Cabin crew instructors

Instruction must be given by appropriately qualified instructors. Those instructors must:

- (i) have appropriate knowledge in the field where instruction is to be given;
- (ii) be capable of using appropriate instructional techniques; and

- (iii) receive regular recurrent training to ensure that the instructional standards are maintained up to date.

8.4. Cabin crew evaluator

Persons responsible for examination of cabin crew must:

- (i) meet the requirements for cabin crew instructors; and
- (ii) be capable of assessing cabin crew performance and conducting examinations.

9. **ADDITIONAL REQUIREMENTS FOR COMMERCIAL AIR TRANSPORT AND OTHER OPERATIONS SUBJECT TO A CERTIFICATION OR DECLARATION REQUIREMENT PERFORMED WITH AEROPLANES, HELICOPTERS OR TILT ROTOR AIRCRAFT**

9.1. The operation must not be undertaken unless the following conditions are met:

- (i) the aircraft operator must have directly or through agreements with third parties the means necessary for the scale and scope of the operations. Those means comprise but are not limited to the following: aircraft, facilities, management structure, personnel, equipment, documentation of tasks, responsibilities and procedures, access to relevant data and record keeping;
- (ii) the aircraft operator must use only suitably qualified and trained personnel and implement and maintain training and checking programmes for the crew members and other relevant personnel that are necessary to ensure the currency of their certificates, ratings and qualifications;
- (iii) as appropriate for the type of activity undertaken and the size of the organisation, the aircraft operator must implement and maintain a management system to ensure compliance with the essential requirements set out in this Annex, manage safety risks and aim for continuous improvement of this system;
- (iv) the aircraft operator shall establish an occurrence reporting system, as part of the management system under point (iii), in order to contribute to the aim of continuous improvement of the safety. The occurrence reporting system shall be compliant with applicable regulation in force in Thailand.

9.2. The operation must only be undertaken in accordance with an aircraft operator's operations manual. Such manual must contain all necessary instructions, information and procedures for all aircraft operated and for operations personnel to perform their duties. Limitations applicable to flight time, flight duty periods and rest periods for crew members must be specified. The operations manual and its revisions must be compliant with the approved flight manual and be amended as necessary.

9.3. The aircraft operator shall establish procedures, as appropriate, so as to minimise the consequences to safe flight operations of disruptive passenger behaviour.

9.4. The aircraft operator must develop and maintain security programmes adapted to the aircraft and the type of operation including particularly:

- (i) security of the flight crew compartment;
- (ii) aircraft search procedure checklist;
- (iii) training programmes; and
- (iv) protection of electronic and computer systems to prevent intentional and non-intentional system interference and corruption.

9.5. When security measures may adversely affect the safety of operations, the risks must be assessed and appropriate procedures developed to mitigate safety risks, this may necessitate the use of specialist equipment.

- 9.6. The aircraft operator must designate one pilot amongst the flight crew as the pilot in command.
- 9.7. The prevention of fatigue must be managed through a fatigue management system. For a flight, or series of flights, such a system needs to address flight time, flight-duty periods, duty and adapted rest periods. Limitations established within the fatigue management system must take into account all relevant factors contributing to fatigue such as, in particular, number of sectors flown, time-zone crossing, sleep deprivation, disruption of circadian cycles, night hours, positioning, cumulative duty time for given periods of time, sharing of allocated tasks between crew members, and also the provision of augmented crews.
- 9.8. The aircraft operator must ensure that the tasks specified in point 6.1 and those described in points 6.4 and 6.5 are controlled by an organisation responsible for the continuing airworthiness management that must meet the applicable requirements.
- 9.9. The aircraft operator must ensure that the release to service required by point 6.3 is issued by an organisation qualified for the maintenance of products, parts and not-installed equipment. This organisation shall meet the applicable requirements.
- 9.10. The organisation referred to in 9.8 shall establish an organisation manual providing, for use and guidance of personnel concerned, a description of all continuing airworthiness procedures of the organisation.
- 9.11. A checklist system must be available for use, as applicable, by crew members in all phases of operation of the aircraft under normal, abnormal and emergency conditions and situations. Procedures must be established for any reasonably foreseeable emergency situation.
- 9.12. Emergency or abnormal situations must not be simulated when passengers or cargo are being carried.