
**CIVIL AVIATION REGULATIONS –
PART III –
AVIATION TRAINING ORGANISATION**

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**CIVIL AVIATION REGULATIONS
– PART III –
AVIATION TRAINING ORGANISATIONS**

- Citation. 1. These Regulations may be cited as the Civil Aviation Regulations – Part III – Aviation Training Organisation.
- Interpretation. 2. In these regulations—
- (a) “accountable manager” means the manager who has corporate authority for ensuring that all training can be financed and carried out to the standard required by the Authority;
 - (b) “advanced flight training device” means a flight training device which has a cockpit that accurately replicates a specific make, model, and type aircraft cockpit, and handling characteristics that accurately model the aircraft handling characteristics;
 - (c) “authorised instructor” has the meaning assigned to it under Civil Aviation General Application and Personnel Licensing Regulations;
 - (d) “approved training” means training conducted under special curricula and supervision approved by the Authority;
 - (e) “Approved Training Organisation” means an organisation approved by and operating under the supervision of the

Authority in accordance with the Civil Aviation General Application and Personnel Licensing Regulations and the Civil Aviation (Aviation Training Organisation) Regulations, to perform approved training;

- (f) “Approved Training Organisation satellite” means a facility of an Approved Training Organisation at a location other than primary location of such Approved Training Organisation;
- (g) “examiner” has the meaning assigned to it by Civil Aviation General Application and Personnel Licensing Regulations;
- (h) “flight simulator” means a device that –
- (i) is a full-size aircraft cockpit replica of a specific type, make, model and series of aircraft;
 - (ii) includes the hardware and software necessary to represent the aircraft in ground operations and flight operations;
- (i) “flight training device” means an instrument that –
- (i) is a full-size replica of the instrument, equipment, panels, and controls of an aircraft, open or in an enclosed cockpit, including the hardware and software for the systems installed, that is necessary to

stimulate the air-craft in ground and flight operations;

(ii) need not have a force cueing or visual system; and

(iii) has been approved or accepted by the Authority;

(j) “flight training equipment” means a flight simulator, a flight training device or an aircraft;

(k) “Level 1 Flight Training Specifications” means the specific approvals of a flight training facility that conducts all or substantially all of each flight training course using aircraft;

(l) “Level 2 Flight Training Specifications” means the specific approvals of a flight training facility that conducts all or substantially all of each flight training course using simulation media that are qualified and approved by the Director General;

(m) “line-operational simulation” means simulation conducted using operational-oriented flight scenarios that accurately replicate interaction among flight crew members and between flight crew members and dispatch facilities, other crew members, air traffic control, and ground operations;

(n) “line orientation flight training” means flight training in a simulator with a

complete crew using representative flight segments that contain normal, abnormal, and emergency procedures that may be expected in line operations;

- (o) “safety management system” means a systematic approach to managing safety, including the necessary organisational structures, accountabilities, policies and procedures;
- (p) “State safety programme” means an integrated set of regulations and activities aimed at improving safety;
- (q) “specialty curriculum” means a set of courses designed to comply with the Act or Regulations made thereunder which is approved by the Authority for use at an Approved Training Organisation with Level 2 Flight Training Specifications; and
- (r) “Training Specifications” means a document issued to an Approved Training Organisation by the Authority that specifies the checking, testing authorisations, limitations and training programme requirements for such organisation.

Application of
Civil Aviation
General
Regulations.

3. The provisions of Part I of the Civil Aviation General Application and Personnel Licensing Regulations, shall apply to all certificates issued by the Authority in accordance with these Regulations.

Restriction on
Conduct of

4. (1) Approved training shall provide a level of competency at least equal to that provided by the minimum re-

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Aviation
Training.

quirements for personnel not receiving such approved training.

(2) A person shall not operate an Approved Training Organisation unless he—

(a) holds a valid Approved Training Organisation Certificate with the appropriate Training Specifications for such training issued by the Authority in accordance with these Regulations;

(i) holds a valid certificate for the training of airmen, issued by another Contracting State, which is accepted by the Authority under these Regulations and has been issued Training Specifications by the Authority; and

(b) is permitted under the Act or Regulations made thereunder, to conduct such aviation training.

(3) A person shall not conduct training, testing or checking in an advanced flight training device or a flight simulator unless—

(a) he is an air operator training his own flight crew;

(b) he holds an Approved Training Organisation Certificate with the appropriate Training Specifications, issued under these Regulations; and

(c) he holds a valid certificate for the training, testing or checking of airmen in

advanced training device or a flight simulator issued by another Contracting State which is accepted by the Authority under these Regulations and he has been issued Training Specifications by the Authority.

(4) Approved training for flight crew and air traffic controllers shall be conducted within an Approved Training Organisation.

(5) Competency-based approved training for aircraft maintenance personnel shall be conducted within an Approved Training Organisation.

General Requirements for Issue of Aviation Training Organisation Certificate.

5. (1) A person wishing to apply for an Approved Training Organisation Certificate to conduct aviation training and testing for airmen shall—

- (a) apply to the Authority in the prescribed form;
- (b) pay the prescribed fee;
- (c) be at least eighteen (18) years of age;
- (d) be able to or have persons employed in the Organisation who are able to read, speak, write and understand the English language; and
- (e) meet the requirements of these Regulations.

(2) An application under sub-regulation (1), shall be—

- (a) submitted at least ninety (90) days before the date of intended commencement of training by the applicant; and
- (b) accompanied by—
 - (i) two (2) copies of the Training and Procedures Manual of the applicant which contains the matters set out in Schedule 1 and which shall be approved by the Authority;
 - (ii) a list of the training functions to be performed by the Approved Training Organisation; and
 - (iii) any additional information the Director General requires the applicant to submit.

(3) Where the applicant under sub-regulation (1)(d), is unable to read, speak, write or understand the English language, but employs a person who can read, speak write and understand the English language, such person shall hold a management function in his organisation.

(4) An applicant for an Approved Training Organisation Certificate shall ensure that the facilities and equipment described in his application are—

- (a) available for inspection and evaluation prior to the grant of the Approved Training Organisation Certificate; and
- (b) in place and operational at the location of

the proposed Approved Training Organisation prior to issuance of an Approved Training Organisation Certificate under these Regulations.

Issue of
Aviation
Training
Organisation
Certificate.

6. (1) Where the Director General is satisfied that an applicant for an Approved Training Organisation Certificate under Regulation 5, meets the requirements of these Regulations he may recommend the Authority issue to such applicant an Approved Training Organisation Certificate.

(2) An Approved Training Organisation Certificate under sub-regulation (1), shall comprise—

- (a) a document for public display signed by the Authority; and
- (b) a document containing the Training Specifications with the terms, conditions, and authorisations applicable to the Approved Training Organisation.

(3) The document for display under sub-regulation (2)(a), shall contain—

- (a) all the business names included on the application under which the holder of an Approved Training Organisation Certificate (hereinafter referred to as an “Approved Training Organisation”), may conduct operations and the address of each business office used by the Approved Training Organisation;
- (b) the principal location of the Approved Training Organisation;
- (c) the date of issue and period of validity

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for each page issued;

- (d) the authorised locations of operations;
and
- (e) training specifications for the following categories, as applicable:
 - (i) flight crew training;
 - (ii) aircraft maintenance training;
and
 - (iii) any other aviation training.

(4) The Training Specifications under sub-regulation (2)(b) shall contain—

- (a) the type of training authorised, including approved courses;
- (b) the category, class, and type of aircraft that may be used for training, testing, and checking where applicable;
- (c) for each flight simulator or flight training device, the make, model, and series of aeroplane or the set of aeroplanes being simulated and the qualification level assigned, or the make, model, and series of rotorcraft, or set of rotorcraft being simulated and the qualification level assigned;
- (d) for each flight simulator and flight training device subject to qualification evaluation by the Authority, the identification number assigned by the

Director General;

- (e) the name and address of each satellite Approved Training Organisation, and the approved courses offered at each satellite Approved Training Organisation;
- (f) authorised deviations or waivers from these Regulations; and
- (g) any other items the Authority may require.

Suspension or Refusal of an Aviation Training Organisation Certificate.

7. The Director General may recommend that the Authority suspend or refuse to issue an Approved Training Organisation Certificate in accordance with these Regulations where it comes to his attention that—

- (a) the applicant or the Approved Training Organisation—
 - (i) does not meet the requirements of these Regulations;
 - (ii) has failed for more than sixty (60) days to maintain the required facilities, aircraft or personnel;
 - (iii) held an approval for the management and conduct of aviation services which was suspended or revoked within the previous five (5) years;
 - (iv) has provided incomplete,

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inaccurate, fraudulent or false information in applying for the Approved Training Organisation Certificate.

- (v) held a certificate or aviation document issued by the Authority that was suspended or revoked within the previous five (5) years by reason of criminal, fraudulent, improper action or insanity on the part of such person; or
- (vi) employs or proposes to employ a person in a management position or supervisor capacity who—
 - (A) held a certificate or aviation document issued by the Authority that was suspended or revoked within the previous five (5) years by reason of criminal, fraudulent, improper action or insanity on the part of such person; or
 - (B) contributed materially to the suspension or revocation of a certificate or aviation document issued by the Authority; or

(b) where a person having substantial ownership of the organisation –

(i) held a certificate or aviation document issued by the Authority that was suspended or revoked within the previous five (5) years by reason of criminal, fraudulent, improper action or insanity on the part of such a person; or

(ii) contributed materially to the suspension or revocation of a certificate or aviation document issued by the Authority.

Revocation of an Approved Training Organisation Certificate.

8. In addition to the general conditions under Part I of the Civil Aviation General Application and Personnel Licencing Regulations, for the revocation of aviation documents issued by the Authority, the conditions for refusal or suspension of an Approved Training Organisation Certificate under Regulation 7, shall apply to the revocation of an Approved Training Organisation Certificate.

Renewal of Approved Training Organisation Certificate.

9. (1) An Approved Training Organisation shall within sixty (60) days before the expiration of its Approved Training Organisation Certificate issued in accordance with these Regulations, apply to the Authority for the renewal of such Approved Training Organisation Certificate.

(2) An application under sub-regulation (1), shall be –

(a) made in the prescribed form;

(b) accompanied by –

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- (i) the prescribed fee; and
- (ii) any documents required by the Authority.

(3) The Director General may, where he is satisfied that an Approved Training Organisation under sub-regulation (1), continues to meet the requirements of these Regulations, recommend the Authority issue a renewed Approved Training Organisation Certificate to an Approved Training Organisation which shall contain the initial date of issue of its Approved Training Organisation Certificate as well as the date on which it was renewed.

Acceptance of an Approved Training Certificate Issued by Another Contracting State.

10. Where the Director General is satisfied that an Approved Training Organisation, approved by another Contracting State meets the requirements of these Regulations, he may recommend the Authority accept an Approved Training Organisation Certificate and training specifications issued by the Contracting State.

Amendment to an Approved Training Organisation Certificate.

11. (1) The Director General may recommend that the Authority amend an Approved Training Organisation Certificate—

- (a) where he determines that such amendment is required; or
- (b) upon the application of the Approved Training Organisation.

(2) An Approved Training Organisation shall submit an application to amend its Approved Training Organisation Certificate issued under Regulation 5, at least sixty (60) days before the commencement of operations under the amended Approved Training Organisation Certificate, unless the Director General specifies a different period for the filing of the application.

(3) An Approved Training Organisation shall not amend any part of its Training and Procedures Manual without the prior approval of the Authority.

Duration of an
Aviation
Training
Organisation
Certificate.

12. (1) An Approved Training Organisation Certificate issued in accordance with these Regulations shall remain valid until—

- (a) the last day of the twelfth month from the month on which the Approved Training Organisation Certificate was issued;
- (b) the date that any change in ownership of the Approved Training Organisation occurs; or
- (c) the date of any significant change in the Approved Training Organisation facilities.

(2) A change of ownership of an Approved Training Organisation invalidates the Approved Training Organisation Certificate issued to such Approved Training Organisation unless—

- (a) the Approved Training Organisation makes an application for an appropriate amendment to such Approved Training Organisation Certificate within thirty (30) days; and
- (b) no significant change in the facilities, operating personnel, or approved training courses is involved.

(3) Notwithstanding sub-regulations (1) and (2), an Approved Training Organisation with Level 1 or Level 2 Flight

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Training Specifications issued in accordance with these Regulations, shall remain valid unless surrendered, suspended or revoked.

(4) Where an Approved Training Organisation Certificate is surrendered or revoked, the holder of such Approved Training Organisation Certificate shall return it to the Authority.

Approval for
Deviation
from
Regulations.

13. (1) The Director General may recommend that the Authority issue a deviation from any requirement of these Regulations.

(2) An Approved Training Organisation requesting a deviation under this Regulation shall provide the Authority with information acceptable to the Director General which shows—

- (a) justification for the deviation; and
- (b) that such deviation will not adversely affect the quality of instruction, testing or evaluation.

Restrictions on
Advertising by
Aviation
Training
Organisations.

14. (1) An Approved Training Organisation shall not—

- (a) make any statement relating to its Approved Training Organisation Certificate and training specifications that is false or designed to mislead any person contemplating enrolment in such Approved Training Organisation;
- (b) advertise that such Approved Training Organisation is certified, unless such advertisement clearly differentiates between courses that have been approved and those that have not been

approved under these Regulations.

(2) An Approved Training Organisation whose Approved Training Organisation Certificate has been surrendered, suspended or revoked shall promptly –

- (a) remove all indications, including signs, wherever located, that the Approved Training Organisation was certified by the Authority; and
- (b) notify all advertising agents and advertising media employed or contracted by the Approved Training Organisation, to cease all advertising which indicates that such Approved Training Organisation is certified by the Authority.

Training and Procedures Manual.

15. An applicant for an Approved Training Organisation Certificate shall provide a Training and Procedures Manual for the use and guidance of all personnel concerned containing the information set out in Schedule 1.

Schedule 1.

Quality Assurance System.

16. An Aviation Training Organisation shall establish a quality assurance system, acceptable to the Authority, which ensures that training and instructional practices comply with all relevant requirements.

Safety Management System.

17. (1) An operator of an Aviation Training Organisation shall implement a safety management system that is acceptable to the Authority and –

- (a) identifies safety hazards;
- (b) ensures the implementation of remedial action necessary to maintain the level of

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safety performance established by the Director General;

- (c) provides for continuous monitoring and regular assessment of the safety performance;
- (d) aims at a continuous improvement of the overall performance of the safety management system; and
- (e) meets the standards set out in Schedule 2.

Schedule 2.

(2) As part of the safety management system required under sub-regulation (1), an operator of an Aviation Training Organisation shall clearly define lines of safety accountability throughout the organisation including a direct accountability for safety on the part of senior management.

Required
Personnel for
an Aviation
Training
Organisation.

18. (1) An applicant for an Approved Training Organisation Certificate under Regulation 5, shall nominate a person in his organisation as the accountable manager responsible for establishing and promoting the training standards and quality policy to ensure compliance with the requirements for an Approved Training Organisation.

(2) The accountable manager nominated under sub-regulation (1) shall be approved by the Authority.

(3) An Approved Training Organisation shall employ the necessary personnel to plan, perform and supervise the training to be conducted and for the conduct of knowledge examinations and practical assessments in accordance with its approval, except that, when another organisation is used to provide practical training and assessments, the staff of such other organisations may be nominated to carry out any combination of the roles of authorised instructor and examiner,

subject to compliance with Civil Aviation General Application and Personnel Licensing Regulations.

(4) An Approved Training Organisation shall ensure that the competence of instructional personnel is in accordance with procedures and at a level acceptable to the authority.

(5) An Approved Training Organisation shall ensure that all instructional personnel receive initial and continuation training appropriate to their assigned tasks and responsibilities. The training programme established by the training organisation shall include training in knowledge and skills related to human performance.

Location,
Facilities,
Equipment
and Materials
of an Aviation
Training
Organisation.

19. (1) An Approved Training Organisation shall—

- (a) maintain facilities, working environment, equipment and material appropriate for the task to be performed, to the standards required by its Approved Training Organisation Certificate and acceptable to the Authority;
- (b) have, or have access to, the necessary information, equipment, training devices and material to conduct the courses for which it is approved; and
- (c) ensure that synthetic training devices are qualified according to requirements established by the Authority and that their use are approved by the Authority to ensure that they are appropriate for the task.

(2) Where an Approved Training Organisation wishes to make a change to its facilities, equipment or material that have been approved for a particular curriculum under its

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Training and Procedures Manual, it shall, prior to making such changes apply first to the Authority for approval.

(3) Where an Approved Training Organisation wishes to relocate its facilities it shall apply to the Authority in writing for approval for such relocation.

(4) An application under sub-regulation (3) for approval to relocate facilities shall be made at least thirty (30) days before the date of the intended relocation.

(5) The Director General may prescribe the conditions under which the Approved Training Organisation may operate while it is changing its location or housing facilities.

(6) Where an Approved Training Organisation changes the location of its facilities without first seeking and obtaining the approval of the Authority for such relocation, its Approved Training Organisation Certificate shall be revoked.

(7) An applicant under Regulation 5 shall establish and an Approved Training Organisation shall maintain a principal business office located at the address specified in its application or its Approved Training Organisation Certificate.

(8) The principal business office of an Approved Training Organisation under sub-regulation (7), shall not be shared with, or used by, any other person who holds an Approved Training Organisation Certificate.

(9) An applicant under Regulation 5, or an Approved Training Organisation shall ensure that—

- (a) each room, training booth or other space used or proposed to be used for instructional purposes is temperature controlled, lit and ventilated to conform

to local building, sanitation and health codes;

- (b) the facilities used or proposed to be used for instruction are not routinely subject to significant distractions caused by flight operations and maintenance operations at the airport; and
- (c) a student shall not attend classes of instruction more than eight (8) hours in any day or more than six (6) days or forty (40) hours in any consecutive seven-day periods.

(10) An Approved Training Organisation shall maintain records required by these regulations in facilities adequate for such purpose.

(11) An Approved Training Organisation with Aircraft Maintenance Training Specification or an applicant under Regulation 5 for an Approved Training Organisation with Aircraft Maintenance Training Specifications shall maintain the following instructional equipment as appropriate to the Training Specifications applied for or which he holds:

- (a) various kinds of airframe structures, airframe systems and components, powerplants, and powerplant systems and components, including propellers, of a quantity and type suitable to complete the practical projects required by its approved curricula; and
- (b) at least one (1) aircraft of a type acceptable to the Authority.

(12) The equipment under sub-regulation (11)(a), is

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not required to be in an airworthy condition, and where damaged prior to use by the Approved Training Organisation, shall have been repaired enough for complete assembly.

(13) An Approved Training Organisation with Aircraft Maintenance Training Specification or an applicant under Regulation 5 for an Approved Training Organisation with Aircraft Maintenance Training Specifications, shall –

- (a) have airframes, powerplants, propellers, appliances, and components thereof, to be used for instruction and from which students will gain practical working experience;
- (b) ensure that the airframes, powerplants, propellers, appliances, and components thereof be sufficiently diversified as to show the different methods of construction, assembly, inspection, and operation when installed in an aircraft for use;
- (c) provide and maintain training aids or operational mock-ups of the retractable landing gear and wing flaps that are acceptable to the Authority, where an aircraft used for instructional purposes does not have retractable landing gear and wing flaps;
- (d) ensure that the special tools and shop equipment required by sub-regulation (14) are in satisfactory working condition for instructional and practice purposes.

(14) An Approved Training Organisation with Aircraft Maintenance Training Specifications shall –

- (a) ensure that it maintains a sufficient number of units of the material described in sub-regulation (13) so that no more than eight (8) students work on any one (1) unit at one time; and
- (b) maintain, on its premises and under the full control of the Approved Training Organisation, an adequate supply of material, special tools, and shop equipment used in constructing and maintaining aircraft as is appropriate to its approved curriculum, in order to assure that each student will be properly instructed.

(15) An applicant for an Approved Training Organisation Certificate with Aircraft Maintenance Training Specifications shall have the facilities, equipment, and materials prescribed in Schedule 3, appropriate to the training specification sought and the maximum number of students expected to be taught at any time.

(16) An applicant for an Approved Training Organisation Certificate with Level 1 or Level 2 Flight Training Specifications and an Approved Training Organisation with Level 1 or Level 2 Flight Training Specifications shall have available exclusively, for adequate periods of time and at a location approved by the Authority, adequate flight training equipment and courseware, including flight simulator or advanced flight training device as applicable.

(17) An applicant under Regulation 5, that plans to conduct pilot flight training shall show that he has continuous use of a briefing area located at each airport at which training flights originate that is—

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- (a) adequate to shelter students waiting to engage in their training flights;
- (b) arranged and equipped for the conduct of pilot briefings; and
- (c) for an Approved Training Organisation with an instrument rating or commercial pilot course, equipped with adequate communication to sources of weather and flight planning information.

(18) The airport used under sub-regulation (17), shall have an adequate runway, the necessary training equipment and meet the requirements prescribed by the Implementing Standards to this regulation under Schedule 4.

Approval of
Training
Course.

20. (1) A Training and Procedures Manual under regulation 5(2)(b)(i), shall indicate in the Training and Examination Procedures Part of the Training Procedures Manual –

- (a) which courses are parts of the core curriculum and which courses are parts of the specialty curriculum;
- (b) which requirements of the Civil Aviation General Application and Personnel Licensing Regulations, would be satisfied by the curriculum or curricula; and
- (c) which requirements of the Civil Aviation General Application and Personnel Licensing Regulations, would not be satisfied by the curriculum or curricula.

(2) Where an Approved Training Organisation commences operations under a curriculum specified in its Training and Procedures Manual, and the Director General determines that such Approved Training Organisation is not meeting the requirements of such curriculum, the Director General may recommend that the Authority direct such Approved Training Organisation to make revisions to such curriculum.

(3) Where an Aviation Training Organisation is directed to make revision to its curriculum in accordance with sub-regulation (2), and it fails to make such revision within thirty (30) days of the direction given, its Approved Training Organisation Certificate may be suspended or revoked in accordance with the provisions of the Civil Aviation Act

Training
Programme
Curriculum
Requirements.

21. (1) An applicant under Regulation 5, shall ensure that a curriculum submitted under his Training and Procedures Manual meets the applicable requirements and contains –

- (a) a course outline for each proposed curriculum;
- (b) minimum aircraft and flight training equipment requirements for each proposed curriculum as applicable;
- (c) minimum authorised instructor and examiner qualifications for each proposed curriculum;
- (d) a curriculum for initial training and continuing training of each authorised instructor or examiner employed to instruct in a proposed curriculum; and
- (e) for each curriculum that provides for the issuance of a licence or rating in fewer than the minimum hours prescribed by

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the Civil Aviation General Application and Personnel Licensing Regulation –

- (i) a means of demonstrating the ability to accomplish such training in the reduced number of hours; and
- (ii) a means of tracking student performance.

Satellite
Aviation
Training
Organisation.

22. (1) An Approved Training Organisation may conduct training in accordance with a curriculum approved by the Authority at a satellite Approved Training Organisation where—

- (a) the facilities, equipment, personnel and course content of the Approved Training Organisation satellite meets the applicable requirements of these Regulations;
- (b) the authorised instructors and examiners at the Approved Training Organisation satellite are under the direct supervision of management personnel of the principal Approved Training Organisation;
- (c) the Approved Training Organisation notifies the Authority in writing at least sixty (60) days prior to proposed commencement of operations of its Approved Training Organisation satellite; and
- (d) the Training Specifications of the Approved Training Organisation reflect the

name and address of the satellite Approved Training Organisation and the approved courses offered at the satellite Approved Training Organisation.

(2) The Director General shall recommend the Authority issue Training Specifications which prescribe the operations required and authorised at each satellite Approved Training Organisation.

Changes
Requiring
Notice to the
Authority.

23. (1) An Approved Training Organisation shall notify the Authority at least thirty (30) days prior to—

- (a) a new accountable manager being designated;
- (b) the instructional and evaluation staff being changed; and
- (c) the housing, training facilities and equipment, procedures, curricula, and work scope being varied or changed so as to potentially affect its Training Specifications.

(2) The Director General may prescribe the conditions under which an Approved Training Organisation may operate during such changes unless the Authority determines that its Approved Training Organisation Certificate should be suspended.

(3) Failure to inform the Authority of the changes specified in sub-regulation (1), may result in the suspension or revocation of the Aviation Training Certificate of an Approved Training Organisation effective from the date the changes were implemented.

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(4) An Approved Training Organisation with Aircraft Maintenance Training Specifications shall only conduct training, knowledge examinations and practical assessments away from the sub-regulation (2) locations in accordance with a control procedure acceptable to the Authority.

(5) A location under sub-regulation (3) is not required to be listed in the Training and Procedures Manual.

Inspections by
the Director
General.

24. (1) The Director General may conduct inspections to determine whether an Approved Training Organisation meets the requirements under which its Approved Training Organisation Certificate and applicable training specifications were issued to ensure continuing compliance with the approval requirements.

(2) Notwithstanding sub-regulation (1), the Director General may, at any time, inspect the operations of an Approved Training Organisation to determine whether it complies with these Regulations.

(3) After an inspection is made under this regulation, the Approved Training Organisation concerned shall be notified by the Authority, in writing, of any deficiencies found during the inspection.

Aviation
Training
Organisation
Record
Keeping
Requirement.

25. (1) An Approved Training Organisation shall maintain a record of the following information in respect of each of its student:

- (a) his name;
- (b) a copy of his licence, if any, and medical certificate, if required;
- (c) the name of the course and the make and

model of flight training equipment used,
if applicable;

- (d) his prerequisite experience and course time completed;
- (e) the date the student completed his course of training, terminated training, or transferred to another Approved Training Organisation;
- (f) his performance on each lesson and the name of the authorised instructor providing instruction;
- (g) a current progress record showing the practical projects or laboratory work completed or to be completed for each subject;
- (h) the date and result of each knowledge test and end-of-course practical test and the name of the examiner conducting the test; and
- (i) the number of hours of additional training that was accomplished after any un-satisfactory practical test.

(2) The logbook of a student shall not be considered as sufficient to meet the requirements of any record required by sub-regulation (1).

(3) An Approved Training Organisation shall maintain a record for each authorised instructor conducting training at the Approved Training Organisation and each authorised instructor designated by it as an examiner which

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contains –

- (a) terms of reference;
- (b) the qualifications;
- (c) the experience;
- (d) the training history, of such authorised instructor or examiner.

(4) An Approved Training Organisation shall –

- (a) maintain the records required by sub-regulation (1) for at least two (2) years following the completion of training, testing or checking;
- (b) maintain the qualification records required by sub-regulation (3) while the authorised instructor or examiner is in the employ of the Approved Training Organisation; and
- (c) maintain the records required by sub-regulation (3), for at least two (2) years.

(5) An Approved Training Organisation shall provide the records required by this regulation to the Authority upon request, within a reasonable time and shall store and maintain such records required by –

- (a) sub-regulation (1) at the Approved Training Organisation, or satellite Approved Training Organisation where the training, testing, or checking, where appropriate, occurred, or at another location acceptable to the Authority; and

(b) subregulation (3) at the Approved Training Organisation or satellite Approved Training Organisation where the authorised instructor or examiner is primarily employed, or at another location acceptable to the Authority.

(6) An Approved Training Organisation shall provide to its student, upon request and at a reasonable time, a copy of his training records.

(7) An Approved Training Organisation shall keep a current record of each student enrolled, showing, where applicable—

(a) the instructions credited; and

(b) the authenticated transcript of grades from the Approved Training Organisations previously attended.

Transcripts of
Grades of
Student.

26. (1) An Approved Training Organisation shall upon completion of a course of aviation training at its organisation by a student, issue to such student a Certificate of Completion.

(2) An Approved Training Organisation shall include in a Certificate of Completion issued it under subregulation (1)—

(a) the name and the certificate number of the Approved Training Organisation;

(b) the name of the student to whom it was issued;

(c) the title of the approved curriculum;

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- (d) the date of completion of the approved course;
- (e) a statement that the student has satisfactorily completed each required stage of the approved course of training including the tests for those stages;
- (f) an authentication by an official of the Approved Training Organisation; and
- (g) a statement showing the cross-country flight training that the student received in the course of training, where applicable.

(3) An Approved Training Organisation shall not issue a Certificate of Completion to a student, or recommend a student for a licence or rating, unless such student has—

- (a) completed the training specified in the approved course of training; and
- (b) passed the required tests.

Requirement
to Provide
Transcripts on
Request.

27. (1) Upon request, an Approved Training Organisation shall provide a student who attended aviation training at its Approved Training Organisation, a transcript of his grades.

(2) An Approved Training Organisation shall include in the transcript required under sub-regulation (1)—

- (a) the curriculum in which the student was enrolled;
- (b) whether the student satisfactorily completed that curriculum

- (c) the final grades the student received; and
- (d) an authentication by an official of the Approved Training Organisation.

PART C
FLIGHT TRAINING SPECIFICATION

Applicability
of Part C.

28. This Part prescribes the requirements for an Approved Training Organisation for the training of flight crew.

Training
Specifications
for Pilot
Training.

29. Where the Director General is satisfied that an applicant for an Approved Training Organisation with flight training specification meets the requirements of these Regulation, he may recommend the Authority issue an Approved Training Organisation Certificate with the following training specifications:

- (a) Level 1 Flight Training Specifications; or
- (b) Level 2 Flight Training Specifications.

Required Staff
for an Aviation
Training
Organisation
with Flight
Training
Specifications.

30. (1) An applicant under Regulation 5 for an Approved Training Organisation Certificate with Level 1 Flight Training Specifications or Level 2 Flight Training Specifications shall appoint and maintain a sufficient number of authorised instructors who are qualified in accordance with these regulations to perform the duties to which they are assigned.

(2) An applicant under Regulation 5 for an Approved Training Organisation Certificate with Level 1 Flight Training Specifications shall meet the applicable personnel requirements of these regulations.

(3) An Approved Training Organisation with Level I

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Flight Training Specifications, shall appoint, a sufficient number of examiners to provide the required checks and tests within seven days of training completion by a student of any curriculum leading to an airman licence, rating or both.

(4) An Approved Training Organisation shall—

- (a) have and maintain, a sufficient number of management personnel who are qualified and competent to perform required duties; and
- (b) ensure that its management representatives and its personnel who are designated to conduct training, are able to understand, read, write, and fluently speak the English language.

(5) The persons listed in this regulation may serve in more than one position in an Approved Training Organisation, provided such person is qualified for those positions.

Curriculum for
Flight Crew
Training.

31. (1) The Director General may recommend that the Authority approve the following courses of instruction for an Approved Training Organisation with Level 1 Flight Training Specifications:

- (a) licensing and rating courses—
 - (i) private pilot course;
 - (ii) instrument rating course;
 - (iii) commercial pilot licensing course;
 - (iv) airline transport pilot licencing course;

- (v) flight instructor rating course;
- (vi) flight instructor instrument rating course;
- (vii) ground instructor authorisation course;
- (viii) additional aircraft category or class rating course;
- (ix) aircraft type rating course; and
- (x) flight engineer course;

(b) special preparation courses—

- (i) pilot refresher course;
- (ii) flight authorised instructor refresher course;
- (iii) ground authorised instructor refresher course;
- (iv) flight engineer refresher course;
- (v) agricultural aircraft operations course;
- (vi) rotorcraft external-load operations course;
- (vii) special operations course; and
- (viii) test pilot course; and

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(c) pilot ground school course.

(2) The minimum curriculum for the licensing and rating courses at sub-regulation (1)(a) is prescribed in the applicable Implementing Standard to this regulation under Schedule 4.

(3) The minimum curriculum for the special preparation courses under sub-regulation (1)(b) is prescribed in the applicable Implementing Standard to this regulation under Schedule 4.

Schedule 4.

(4) The minimum curriculum for the pilot ground training course at sub-regulation (1)(c) is prescribed in the applicable Implementing Standard to this regulation under Schedule 4.

(5) An Approved Training Organisation with a Level 2 Flight Training Specifications may, where it has the applicable simulation media required to conduct a course under sub-regulation (1)(a), conduct such course.

(6) The Director General may recommend that the Authority approve a course under sub-regulation (1)(a), and a simulator medium in respect of such course.

Aircraft
Requirements.

32. (1) An applicant for an Approved Training Organisation Certificate with Level 1 Flight Training Specifications and an Approved Training Organisation with Level 1 Flight Training Specifications, shall ensure each aircraft used for flight instruction and solo flights –

(a) has a valid Airworthiness Certificate;

(b) is maintained and inspected in accordance with the requirements of the Act and Regulations made thereunder;

and

- (c) is equipped as required in the training specifications for the approved course for which it is used.

(2) Except as provided in sub-regulation (3), an applicant for an Approved Training Organisation Certificate with Level 1 Flight Training Specifications and an Approved Training Organisation with Level 1 Flight Training Specifications, shall ensure that each aircraft used for flight instruction has at least two (2) pilot stations with engine power and flight controls that are easily reached and that operate in a conventional manner from both pilot stations.

(3) An Approved Training Organisation may, with the approval of the Authority, use an aircraft with controls such as nose-wheel steering, switches, fuel selectors, and engine air flow controls that are not easily reached and operated in a conventional manner by both pilots for flight instruction, where the Approved Training Organisation determines that the flight instruction can be conducted in a safe manner considering the location of controls and their non-conventional operation, or both.

(4) An Approved Training Organisation shall ensure that each aircraft used in a course involving Instrument Flight Rules operations is equipped and maintained for Instrument Flight Rules operations.

Requirements
for Flight
Simulator and
Flight Training
Devices in an
Aviation

33. (1) An applicant for or the holder of an Approved Training Organisation Certificate with Level 1 Flight Training Specifications and Level 2 Flight Training Specifications shall show that each flight simulator and flight training device used for training, testing, and checking is approved or accepted by

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Training Organisation with Level 1 Flight Training Specifications or Level 2 Flight Training Specifications.

the Authority for—

- (a) each manoeuvre and procedure for the make, model, and series of aircraft, set of aircraft, or aircraft type simulated, as applicable; and
- (b) each curriculum or training course in which the flight simulator or flight training device is used, where that curriculum or course is used to satisfy any requirement of these Regulations.

(2) An applicant for, and holder of, an Approved Training Organisation with Level 1 Training Specifications shall show that each flight simulator and flight training device used by him—

- (a) represents the aircraft for which the course is approved;
- (b) is used only for training given by an authorised instructor; and
- (c) is not used for more than twenty-five per cent (25%) of the total flight training hour requirements.

(3) An Approved Training Organisation with Level 1 Flight Training Specifications or Level 2 Flight Training Specifications, shall ensure that prior to use, the approval of the flight simulator or flight training device required under this regulation includes—

- (a) the set of aircraft or type aircraft;
- (b) where applicable, the particular variation within type for which the

training, testing, or checking is being conducted; and

- (c) the particular manoeuvre, procedure or crew member function to be performed.

(4) An Approved Training Organisation with Level 1 Flight Training Specifications or Level 2 Flight Training Specifications, shall ensure that each flight simulator or flight training device which it uses is –

- (a) maintained to ensure the reliability of the performance, functions and all other characteristics required for its initial acceptance or approval;

- (b) modified to conform with any modification to the aircraft being simulated if the modification results in changes to performance, function, or other characteristics required for approval;

- (c) given a functional pre-flight check each day before being used; and

- (d) provided with a discrepancy log in which the authorised instructor or examiner, at the end of each training session, enters each discrepancy.

(5) Unless otherwise authorised by the Authority, an Approved Training Organisation with Level 1 Flight Training Specifications shall ensure that each component of a flight simulator or flight training device which it uses is operative where the component is essential to, or involved in, the training, testing or checking of airmen.

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Training
Specifications
Instructor
Requirements
for an
Approved
Training
Organisation
with Level 2
Flight.

34. An Approved Training Organisation with Level 2 Flight Training Specifications shall not employ a person as an authorised instructor in a flight training course that is subject to approval by the Authority unless such person—

- (a) is eighteen (18) years of age;
- (b) is able to read, write, speak, and understand the English language;
- (c) holds a Flight Instructor Rating, where he conducts training in an aircraft in flight;
- (d) satisfies the requirements of paragraph (e), where he conducts training in a flight simulator; and
- (e) meets at least one (1) of the following requirements—
 - (i) the aeronautical experience requirements for a Commercial Pilot Licence, excluding the required hours of instruction in preparation for the skill test for the Commercial Pilot Licence;
 - (ii) the aeronautical experience requirements for Airline Transport Pilot Licence, where instructing in a flight simulator or flight training device that represents an aeroplane requiring a type rating or where conducting training in a curriculum

leading to the issuance of an Airline Trans-*port* Pilot Licence; or

(iii) is employed as a Simulator Flight Instructor qualified to conduct training on flight training equipment;

(f) an Approved Training Organisation with Level 2 Flight Training Specifications shall appoint one (1) or more authorised instructor in writing for each approved course prior to such authorised instructor instructing that course; and

(g) prior to initial appointment under paragraph (f), a flight and simulator instructor shall meet the requirements of the applicable Implementing Standard to this regulation under Schedule 4.

Schedule 4.

Privileges and Limitations of an Authorised Instructor or Examiner for an Approved Training Organisation with Level 2 Flight Training Specifications.

35. (1) An authorised instructor appointed by an Approved Training Organisation with Level 2 Flight Training Specifications may conduct —

(a) instruction for each curriculum for which he is qualified; and

(b) testing and checking for which he is qualified.

(2) An examiner of an Approved Training Organisation with Level 2 Flight Training Specifications may conduct instruction, testing and checking required by these Regulations.

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(3) An authorised instructor or examiner appointed by an Approved Training Organisation may give endorsements in accordance with the Civil Aviation General Application and Personnel Licensing Regulations, where he is authorised by the Authority to instruct or examine on a curriculum that requires such endorsements.

(4) An Approved Training Organisation shall not allow an authorised instructor to—

- (a) conduct more than eight (8) hours of instruction in any twenty-four (24) consecutive hour period, or more than six (6) days or forty (40) hours in any seven (7) day period excluding time spent on briefings and debriefings;
- (b) provide flight training equipment instruction unless that authorised instructor meets the applicable requirements of Regulation 34; or
- (c) provide flight instruction in an aircraft unless that authorised instructor—
 - (i) meets the applicable requirements of Regulation 34;
 - (ii) holds a Flight Instructor rating;
 - (iii) holds pilot licences and ratings applicable to the category, class, and type aircraft in which he is instructing;

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Organisations

- (iv) where instructing or examining in an aircraft in flight while occupying a required crew member seat, holds at least a current Class 2 Medical Certificate; and
- (v) meets the recency of experience requirements of the Civil Aviation Operations Regulations.

Authorised
Instructor
Training and
Testing
Requirements
for an
Approved
Training
Organisation
with Level 2
Flight Training
Specifications.

36. (1) An Approved Training Organisation shall ensure that except as provided in sub-regulation (3), prior to the initial appointment of an authorised instructor in its organisation and every twelve months beginning the first day of the month following initial appointment of an authorised instructor, such—

- (a) authorised instructor satisfactorily completes an approved course of ground instruction in at least—
 - (i) the fundamental principles of the learning process;
 - (ii) elements of effective teaching, instruction methods, and techniques;
 - (iii) authorised instructor duties, privileges, responsibilities and limitations of his instructor rating;
 - (iv) training policies and procedures; and

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- (v) cockpit resource management and crew co-ordination; and
 - (vi) evaluation;
- (b) authorised Flight Instructor or authorised Simulator Flight Instructor satisfactorily demonstrates to a designated examiner knowledge of and proficiency in, instructing in a representative segment of each curriculum for which that authorised Flight Instructor or authorised Simulator Flight Instructor is designated to instruct under these Regulations;
- (c) authorised instructor who instructs in a flight simulator or flight training device satisfactorily completes an approved course of training in the operation of the flight simulator and an approved course of ground instruction, applicable to the training courses the authorised instructor is designated to instruct, which shall include—
- (i) proper operation of flight simulator and flight training device controls and systems;
 - (ii) proper operation of environmental and fault panels;
 - (iii) limitations of simulation; and
 - (iv) minimum equipment

requirements for each
curriculum;

(d) authorised flight instructor who provides training in an aircraft satisfactorily completes an approved course of ground instruction and flight training in an aircraft, flight simulator or flight training device, which shall include—

(i) performance and analysis of flight training procedures and manoeuvres applicable to the training courses that the authorised instructor is designated to instruct;

(ii) technical subjects covering aircraft subsystems and operating rules applicable to the training courses that the authorised instructor is designated to instruct;

(iii) emergency operations;

(iv) emergency situations likely to develop during training; and

(v) appropriate safety measures;
and

(e) authorised instructor who instructs in flight training equipment passes a knowledge test and annual proficiency check—

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- (i) in the flight training equipment in which the authorised instructor will be instructing; and
- (ii) on the subject matter and manoeuvres of a representative segment of each curriculum for which the authorised instructor will be instructing.

(2) In addition to the requirements of sub-regulation (1), an Approved Training Organisation shall ensure that an authorised instructor, appointed by it, who instructs in a flight simulator that the Authority has approved for all training and testing for an Airline Transport Pilot Licence, an aircraft type rating test, or both, has met the applicable requirements of the Implementing Standards to this regulation under Schedule 4.

Schedule 4.

(3) The Director General in making a recommendation to the Authority in respect of the renewal of a Flight Instructor rating of an authorised instructor appointed by an Approved Training Organisation, shall take into consideration the completion of a curriculum required by sub-regulations (1), or (2) taken in the month before or after the month in which it is due, as taken in the month in which it was due for the purpose of computing when the next training is due.

(4) The Director General in making a recommendation to the Authority in respect of the renewal of a Flight Instructor rating of an authorised instructor appointed by an Approved Training Organisation, may give credit in respect of sub-regulation (1) or (2), to a Flight Instructor who has satisfactorily completed an authorised instructor training course for an air operator, where the Authority finds such a course is equivalent to the requirements of sub-regulation (1)

or (2).

Examiner
Requirements
for an
Approved
Training
Organisation
with Level 2
Flight Training
Specifications.

37. (1) Except as provided by sub-regulation (4), an Approved Training Organisation with Level 2 Flight Training Specifications shall ensure that an examiner who it appoints:

- (a) is approved by the Authority;
- (b) is in compliance with Regulations 34, 35 and 36;
- (c) prior to his designation has satisfactorily completed a curriculum within a twelve (12) month period that includes the following—
 - (i) examiner duties, functions and responsibilities;
 - (ii) methods, procedures, and techniques for conducting required tests and checks;
 - (iii) evaluation of pilot performance; and
 - (iv) management of unsatisfactory tests and subsequent corrective action; and
- (d) where conducting an evaluation in flight training equipment, satisfactorily passes a knowledge test and annual proficiency check in a flight simulator or aircraft on which the examiner will be conducting a skill test.

(2) In making a recommendation in respect of the re-

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training requirement of an examiner, the Director General shall take into consideration the fact that such examiner completed the curriculum required by sub-regulation (1)(c), in the month before or the month after the month in which it was due.

(3) The Director General may in making a recommendation to the Authority in respect of the re-training requirements for an examiner, give credit for the requirements of sub-regulation (1)(c) to an examiner who has satisfactorily completed an examiner training course for an air operator where the Authority finds such a course equivalent to the requirements of sub-regulation (1)(c).

Personnel
Requirements
for an Aviation
Training
Organisation
with Level 1
Flight Training
Specifications.

38. (1) In addition to the requirements for personnel of an Approved Training Organisation with Flight Training Specifications set out in Regulation 30, an applicant for, and the holder of an Approved Training Organisation Certificate with Level 1 Flight Training Specifications shall have—

- (a) adequate flight and ground authorised instructors, with the relevant ratings and approvals;
- (b) commercial pilots with a lighter-than-air rating, where applicable; and
- (c) a Chief Flight Instructor, who is qualified and competent to perform the duties assigned in each approved training course.

(2) An authorised instructor for ground or flight training shall hold a flight instructor rating, ground instructor authorisation or Commercial Pilot Licence with a lighter-than-air rating, as appropriate, with ratings for the approved training course and any aircraft used in that course.

Chief Flight
Instructor

39. (1) An Approved Training Organisation with Level

Qualifications for an Approved Training Organisation with Level 1 Flight Training Specifications. Schedule 4.

1 Flight Training Specifications shall appoint a Flight Instructor in his organisation as the Chief Flight Instructor to perform supervisory functions over all other instructors for a particular set course.

(2) A Chief Flight Instructor under sub-regulation (1), shall meet one (1) or more of the requirements of the Implementing Standards of this regulation under Schedule 4.

(3) A Chief Flight Instructor appointed in accordance with these Regulations and assigned to conduct a training course shall—

- (a) complete at least once every twelve (12) months, a ground training course or flight training in accordance with an approved syllabus; or
- (b) complete an approved flight instructor refresher course.

Assistant Chief Flight Instructor Qualifications for Approved Training Organisation with Level 1 Flight Training Specifications. Schedule 4.

40. (1) An Approved Training Organisation with Level 1 Flight Training Specifications shall appoint an instructor in his organisation as an assistant Chief Flight Instructor.

(2) An assistant Chief Flight Instructor under sub-regulation (1) shall meet one (1) or more of the requirements of the Implementing Standards to this regulation under Schedule 4.

(3) An assistant Chief Flight Instructor appointed in accordance with these Regulations and assigned to conduct a training course shall—

- (a) complete at least once every twelve (12) months, a ground training course or flight training in accordance with an approved syllabus; or

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- (b) complete an approved flight instructor refresher course.

Check
Instructor
Qualifications
for Aviation
Training
Organisation
with Level 1
Flight Training
Specifications.
Schedule 4.

41. (1) An Approved Training Organisation shall designate an instructor in his organisation as a Check Instructor, to conduct student stage checks, end of course tests and instructor proficiency checks under these Regulations.

(2) A Check Instructor under sub-regulation (1), shall meet the requirements of the Implementing Standards to this regulation under Schedule 4.

Check
instructor
Qualifications
for Aviation
Training
Organisation
with Level 1
Flight Training
Specifications.

42. (1) No person other than a Flight Instructor or Commercial Pilot with a lighter-than-air rating, where applicable, who has the ratings and the minimum qualifications specified for the approved training course may give a student flight training under an approved course of training.

(2) An Approved Training Organisation shall not authorise a student pilot to start a solo flight unless such flight has been approved by an authorised instructor who is present at the Approved Training Organisation.

(3) A Flight Instructor or commercial pilot with a lighter-than-air rating who is assigned to conduct a flight training course shall—

- (a) prior to receiving authorisation to train students in a flight training course, accomplish—

- (i) a review of and a briefing on the objectives and standards of such training course; and
 - (ii) an initial proficiency check in each make and model of aircraft used in that training course in which he provides training.
- (b) every twelve (12) months after the month in which the person last complied with paragraph (a), accomplish a proficiency check in one of the aircraft in which students train.

(4) The tasks set out in sub-regulation (1), shall be administered by the Chief Flight Instructor, assistant Chief Flight Instructor or Check Instructor of the Approved Training Organisation.

Instructor
Ground
Training for
Aviation
Training
Organisation
with Level 1
Flight Training
Specifications.

43. (1) Except as provided in sub-regulation (2), each authorised instructor who is assigned to a ground training course, shall hold a Ground Instructor Authorisation or a Flight Instructor rating or a Commercial Pilot Licence with a lighter-than-air rating with the appropriate rating for that course of training.

(2) A person who does not meet the requirements of sub-regulation (1) may be assigned ground training duties in a ground training course, if—

- (a) the chief instructor who is assigned to that ground training course finds the person qualified to give that training; and

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- (b) the authorised instructor serves under the supervision of the Chief Flight Instructor or the assistant Chief Flight Instructor who is present at the facility when the training is given.

(3) An authorised instructor shall not be used in a ground training course until that authorised instructor has been briefed in regard to the objectives and standards of that course by the Chief Flight Instructor, assistant Chief Flight Instructor, or Check Instructor.

Chief Flight Instructor Responsibility for Approved Training Organisation with Level 1 Flight Training Specifications.

44. An Approved Training Organisation with Level 1 Flight Training Specifications shall, during training ensure that the Chief Flight Instructor or an assistant Chief Flight Instructor is—

- (a) available at such Approved Training Organisation; or
- (b) contactable by telephone, radio or other electronic means.

Privileges of a Certified Approved Training Organisation with Level 2 Flight Training Specifications.

45. (1) An Approved Training Organisation with Level 2 Flight Training Specifications may allow flight simulator authorised instructors and examiners to meet recency of experience requirements through the use of a flight simulator or flight training device where that flight simulator or flight training device is used in a course approved in accordance with these regulations.

(2) An Approved Training Organisation with Level 1 Flight Training Specifications may credit towards the curriculum requirements of a course, previous training and pilot experience and knowledge, provided the student meets the requirements prescribed in the Implementing Standards to this regulation under Schedule 4.

Schedule 4.

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Civil Aviation Regulations – Part III – Aviation Training
OrganisationsLimitations of
an Approved
Training
Organisation.

46. (1) An Approved Training Organisation with Level 1 Flight Training Specifications or Level 2 Flight Training Specifications shall—

- (a) ensure that the freeze, slow motion or repositioning feature in a flight simulator or flight training device is not used during testing or checking; and
- (b) ensure that a repositioning feature in a flight simulator or flight training device is used during line operational simulation for evaluation and line-oriented flight training only to advance along a flight route to the point where the descent and approach phase of the flight begins.

(2) When practical testing, flight checking, or line operational simulation is being conducted, an Approved Training Organisation with Level 2 Flight Training Specifications shall ensure that one of the following occupies each supporting crew member position—

- (a) a crew member qualified as co-pilot in the aircraft category and class; and
- (b) a student.

(3) Notwithstanding sub-regulation 2(a), a flight instructor who is giving instruction may not occupy a crew member position where practical resting, flight checking or line operational simulation is being conducted.

(4) Notwithstanding sub-regulation 2(b), a student may be used in a crew member position with any other student not on the same specific course where practical resting, flight checking or line operational simulation is being conducted.

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Limitations on Student Pilot Enrolled in Actual Flight Curricula.

47. A student pilot shall carry the following items on each aircraft he uses for flight training and solo flights—

- (a) a pre-takeoff and pre-landing checklist; and
- (b) the aircraft operating handbook or aircraft flight manual for the aircraft where one is furnished by the manufacturer.

Enrollment Document for Aviation Training Organisation with Level 1 and Level 2 Flight Training Specifications.

48. (1) An Approved Training Organisation with Level 1 and Level 2 Flight Training Specifications, shall furnish each student upon enrollment, a copy of—

- (a) a certificate of enrolment containing—
 - (i) the name of the course in which the student is enrolled; and
 - (ii) the date of enrollment.
- (b) the training syllabus of the student;
- (c) the safety procedures and practices of the Approved Training Organisation for student pilots, which describe—
 - (i) the use of the facilities and the operation of the aircraft of the Approved Training Organisation;
 - (ii) the weather minimum required by the Approved Training Organisation for

dual and solo flights ;

- (iii) the procedures for starting and taxiing aircraft on the ramp;
- (iv) fire precautions and procedures;
- (v) re-dispatch procedures after un-programmed landings, on and off airports;
- (vi) aircraft discrepancies and write-offs;
- (vii) securing of aircraft when not in use;
- (viii) fuel reserves necessary for local and cross-country flights;
- (ix) avoidance of other aircraft in flight and on the ground;
- (x) minimum altitude limitations and simulated emergency landing instructions; and
- (xi) a description of and instructions regarding the use of assigned practice areas.

(2) An applicant for an Approved Training Organisation with Level 1 or Level 2 Flight Training Specifications shall maintain a monthly listing of persons enrolled in each training course offered by the Approved

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Training Organisation.

(3) An applicant for an Approved Training Organisation with Level 1 or Level 2 Flight Training Specifications shall ensure that each training course for which it seeks approval meets the minimum curriculum requirements.

PART D AIRCRAFT MAINTENANCE TRAINING REQUIREMENTS

Applicability
of Part D.

49. This Part prescribes the requirements for issuing approvals to an Approved Training Organisation with Aircraft Maintenance Training Specifications to conduct the approved training course and examinations required by and for such organisations to issue certificates to students upon successful completion of such courses.

Aircraft
Maintenance
Training.

50. (1) An Aviation Training Organisation shall not conduct training of a person for an Aircraft Maintenance Engineer Licence category or rating unless the Aviation Training Organisation holds an Aviation Training Organisation Certificate with Aircraft Maintenance Training operating specifications issued under Regulation 5.

(2) Notwithstanding sub-regulation (1), the holder of an—

(a) Aircraft Maintenance Engineer Licence;

(b) Air Operator Certificate; or

- (c) Approved Maintenance Organisation, may conduct training of a person for an Aircraft Maintenance Engineer Licence category or rating under a training programme approved by the Authority.

Application and Issue of Approved Training Organisation with Aircraft Maintenance Training Specifications.

51. (1) A person wishing to apply for an Approved Training Organisation Certificate with Aircraft Maintenance Training specifications shall –

- (a) apply in the manner set out in Regulation 5;
- (b) attach a copy of his Training Procedures Manual.

(2) Where the Director General is satisfied that an applicant under Regulation 5, has met the relevant requirements of this Part he shall recommend the Authority issue the applicant with an Approved Training Organisation Certificate with Aircraft Maintenance Training Specifications.

Director General may Recommend Approval of Certain Courses of Instruction.

52. The Director General may where an applicant under Regulation 48 meets the requirements of Regulation 6, recommend the Authority approve the following courses of instruction:

- (a) A – Airframe, fixed wing category;
- (b) A – Airframe, rotary wing category;
- (c) C – Engine, piston category;
- (d) C – Engine, turbo-jet, turbo-prop and turbo-shaft category;
- (e) E1 – Avionics Systems category for Electrical, Instruments and Radio systems;

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- (f) E2—Avionics Systems category for Electrical, Instruments, Radio, Auto Flight and Flight Management systems;
- (g) A—Airframe Type Rating;
- (h) C—Engine Type Rating;
- (i) E1—An Avionics Systems group rating for the electrical systems, radio systems and instrument systems, for an aeroplane of five thousand, seven hundred kilogrammes (5,700 kgs) or less, maximum certified take-off mass and helicopters of two thousand, seven hundred and thirty kilogrammes (2,730 kgs) or less, maximum certified take-off mass;
- (j) E2—An Avionics Systems group rating for the electrical systems, radio systems, instrument systems, auto flight systems and flight management systems for an aeroplane of five thousand, seven hundred kilogrammes (5,700 kgs) or less, maximum certified take-off mass and helicopters of two thousand, seven hundred and thirty (2,730 kgs) or less, maximum certified take-off mass;
- (k) E1—Avionics Systems type rating for an aeroplane type over five thousand, seven hundred kilogrammes (5,700 kgs) certified take-off mass or a helicopter type over two thousand, seven hundred and thirty kilogrammes (2,730 kgs) maximum certified take-off mass; and

- (l) E2—Avionics Systems type rating for an aeroplane type over five thousand, seven hundred (5,700 kgs) certified take-off mass or a helicopter over two thousand, seven hundred and thirty (2,730 kgs) maximum certified take-off mass.

Curriculum
Requirements
for Approved
Training
Organisation.

53. (1) An Approved Training Organisation with Aircraft Maintenance Training Specification shall have a curriculum that is designed to qualify its students to perform the duties of an Aircraft Maintenance Engineer for a particular category or rating.

(2) A curriculum under sub-regulation (1) shall—

- (a) be approved by the Authority; and
(b) offer the number of hours specified in the applicable Implementing Standards to this regulation in Schedule 2

(3) An instruction unit hour under sub-regulation (2)(b), shall be not less than fifty (50) minutes in length.

(4) A curriculum under this regulation shall cover the subjects and items prescribed in the applicable Implementing Standard to this regulation under Schedule 2.

(5) An Approved Training Organisation with Aircraft Maintenance Training Specifications shall teach each subject to at least the indicated level of proficiency defined in the applicable Implementing Standard to this regulation under Schedule 2.

Schedule 2.

(6) An Approved Training Organisation with Aircraft Maintenance Training Specifications shall maintain a curriculum that shows—

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- (a) the required practical projects to be completed;
- (b) the proportions of theory and other instruction to be given, for each subject; and
- (c) a list of the minimum required tests to be given.

(7) An Approved Training Organisation with Aircraft Maintenance Training Specifications may issue a Certificate of Completion where a person successfully completes a course approved by the Authority.

Application for Approval of Aircraft Maintenance Engineer Training Programme.

54. (1) The holder of a training organisation certificate may apply to the Authority for approval for an Aircraft Maintenance Engineer training programme.

(2) An air operator, an Aircraft Maintenance Organisation or an Approved Training Organisation may apply to the Authority for approval for an Aircraft Maintenance Engineer training programme that meets the requirements of this Part.

Requirements for Instructors of an Aviation Training Organisation.

55. (1) An Aviation Training Organisation with Aircraft Maintenance Training Specification shall ensure that an instructor for an Aircraft Maintenance Engineer Licence category or rating holds an Aircraft Maintenance Engineer Licence category or rating appropriate to the training conducted.

(2) Notwithstanding sub-regulation (1), an Aviation Training Organisation with Aircraft Maintenance Training Specifications may provide a specialised instructor who does not hold an Aircraft Maintenance Engineer Licence to teach mathematics, basic electricity, basic hydraulics, basic

pneumatics, drawings and similar subjects and civil aviation requirements, laws and regulations.

(3) An Aviation Training Organisation with Aircraft Maintenance Training Specification shall maintain a list of the names and qualifications of instructors referred to in sub-regulations (1) and (2) and upon request provide a copy of such list with a summary of the qualifications of each instructor to the Authority.

Privileges of the Aviation Training Organisation with Aircraft Maintenance Training Specifications.

56. An Aviation Training Organisation with Aircraft Maintenance Training Specification may carry out the following as permitted by, and in accordance with its approved Training and Procedures Manual:

- (a) conduct approved Aircraft Maintenance Engineer Licence category courses or part thereof;
- (b) conduct approved Aircraft Maintenance Engineer Licence type rating or task training courses; and
- (c) issue a Certificate of Completion to students who successfully completed the courses specified in paragraphs (a) and (b).

PART V TRAINING COURSES FOR AIRMEN OTHER THAN FLIGHT CREW AND MAINTENANCE ENGINEERS

Applicability of Part V.

57. (1) This Part provides an alternative means to accomplish flight training required by the Civil Aviation General Application and Personnel Licensing Regulations and Civil Aviation Air Operator Certification and Administration

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Regulations.

(2) Certification under this Part is not required for training that is—

- (a) approved under the provisions of the Civil Aviation Air Operator Certification and Administration Regulations; and
- (b) conducted under the Civil Aviation General Application and Personnel Licencing Regulations.

Flight
Operations
Officer
Training
Course
Requirements.

58. (1) An applicant for or the holder of an Approved Training Organisation Certificate, proposing to conduct Flight Operations Officers training courses for the granting of a Flight Operations Officer Authorisation under Civil Aviation General Application and Personnel Licensing Regulations, by the Authority, shall apply to the Authority for approval to conduct such course.

(2) An application under sub-regulation (1), shall include an outline of the major topics and sub-topics to be covered, and the number of hours proposed for each.

(3) A training course under sub-regulation (1) shall extend over a minimum of two hundred (200) total course hours covering the knowledge and practical training in the topics and sub-topics under sub-regulation (2).

(4) Where the Director General is satisfied that the proposed course meets the minimum requirements for the granting of a Flight Operations Officer Authorisation under Civil Aviation General Application and Personnel Licensing Regulations, he may recommend the Authority grant approval to the Approved Training Organisation to conduct such course.

(5) An approval granted by the Authority to operate

a Flight Operations Officer Training Course shall expire twenty-four (24) months after the last day of the month of issuance of the approval.

(6) An Approved Training Organisation approved to conduct a Flight Operations Officer Training Course shall apply to the Authority for renewal within thirty (30) days prior to the expiration date of his approval

Personnel
Requirements
for an App-
roved Training
Organisation
Approved to
Conduct a
Flight
Operations
Officer
Training
Course.

59. An Approved Training Organisation approved to conduct a Flight Operations Officer Training Course shall ensure that he maintains an adequate number of authorised instructors who maintain a twenty-four (24) month student passing average of at least eighty per cent (80%) for the students taking the practical test on the first attempt.

Other Courses
of Instruction.

60. (1) Where an applicant for or the holder of an Approved Training Organisation Certificate meets the applicable requirements of Regulation 5, the Director General may recommend that the Authority approve the following courses of instruction for airmen other than flight crew and aircraft maintenance engineers:

- (a) Air Traffic Services Training;
- (b) Cabin Crew;
- (c) Material Handlers;
- (d) Ground servicing personnel;
- (e) Security personnel; and

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(f) Such other courses approved by the Authority.

(2) The Director General may recommend that the Authority approve a course for where the applicant for or holder of an Approved Training Organisation Certificate shows that the course contains a curriculum that shall achieve a level of competency equal to, or greater than, that required by applicable parts of these Regulations.

Requirements to Comply with Minimum Standards. Schedule 4.

61. The holder of or applicant for an Aviation Training Organisation Certificate under these regulations in meeting the requirements of Regulations 19, 31, 34, 36, 39, 40, 41, 45, 48 and 53, shall ensure that he complies with the minimum implementing standards set out in Schedule 4.

Director General to Amend Schedules.

62. The Director General may, by Order amend any of the Schedules.

Transitional Provision.

63. (1) The Approved Training Organisation requirements under these Regulations shall come into effect on September 1, 2016.

(2) A holder of an Approved Training Organisation Certificate who on the commencement of these Regulations continues to operate as an Approved Training Organisation under an existing Certificate shall apply to the Authority for recertification under these Regulations and successfully complete re-certification on or before December 1, 2016.

SCHEDULE 1

[Regulation 5 (2)(b)(i)]

Training and Procedures Manual

1. An Approved Training Organisation may provide a training and procedures manual for the use and guidance of personnel concerned and may be issued in separate parts containing at least the following information:

- (a) a general description of the scope of training authorised under the organisation's terms of approval;
- (b) the content of the training programmes offered including the courseware and equipment to be used;
- (c) a description of the organisation's quality assurance system in accordance with Regulation 15;
- (d) a description of the organisations facilities;
- (e) the name, duties and qualification of the person designated as responsible for compliance with the requirements of the approval in Regulation 18(1);

- (f) a description of the duties and qualification of the personnel designated as responsible for planning, performing and supervising the training in Regulation 18(2);
- (g) a description of the procedures used to establish and maintain the competence of instructional personnel as required by Regulation 25(3);
- (h) a description of the method used for the completion and retention of the training records required by Regulation 25;
- (i) a description, when applicable, of additional training needed to comply with an operator's procedures and requirements; and
- (j) where an Approved Training Organisation is authorised to conduct the testing required for the issue of a licence or rating in accordance with Regulation 18A, a description of the selection, role and duties of the authorised personnel, as well as the applicable requirements established by the Authority.

2. The Approved Training Organisation shall ensure that the Training and Procedures manual is amended when necessary and shall keep the information contained in the Training and Procedures manual up to date.

3. Copies of all amendments to the Training and Procedures manual shall be furnished promptly to all organisations or persons to whom the manual has been issued.

SCHEDULE 2

[Regulation 17(e)]

The following are the minimum standards for an Aviation Training Organisation Safety Management System.

General

This specifies the framework for the implementation and maintenance of a safety management system (SMS) by an Aviation Training Organisation. An SMS is a management system for the management of safety by an organisation. The framework includes four (4) components and twelve (12) elements representing the minimum requirements for SMS implementation.

The implementation of the framework shall be commensurate with the size of the organisation and the complexity of the services provided. A brief description of each element of the framework is also included.

Contents

1. Safety policy and objectives:
 - (a) Management commitment and responsibility;
 - (b) Safety accountabilities;
 - (c) Appointment of key safety personnel;
 - (d) Coordination of emergency response planning; and
 - (e) SMS documentation.

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2. Safety risk management:
 - (a) Hazard identification; and
 - (b) Safety risk assessment and mitigation.

3. Safety assurance:
 - (a) Safety performance monitoring and measurement;
 - (b) The management of change; and
 - (c) Continuous improvement of the SMS.

4. Safety promotion:
 - (a) Training and education; and
 - (b) Safety communication.

1. Safety Policy and Objectives

(a) Management commitment and responsibility

The Aviation Training Organisation shall define the organisation's safety policy which shall be in accordance with international and national requirements, and which shall be signed by the accountable executive of the organisation. The safety policy shall reflect organisational commitments regarding safety; shall include a clear statement about the provision of the necessary resources for the implementation of the safety policy; and shall be communicated, with visible endorsement, throughout the organisation. The safety policy shall include the safety reporting procedures; shall clearly indicate which types of operational behaviours are unacceptable; and shall include the conditions under which disciplinary action would not apply. The safety policy shall be periodically reviewed to ensure it remains relevant and appropriate to the organisation.

(b) Safety accountabilities

The Aviation Training Organisation shall identify the accountable executive who, irrespective of other functions, shall

have ultimate responsibility and accountability, on behalf of the Aviation Training Organisation, for the implementation and maintenance of the SMS.

The Aviation Training Organisation shall also identify the accountabilities of all members of management, irrespective of other functions, as well as of employees, with respect to the safety performance of the SMS.

Safety responsibilities, accountabilities and authorities shall be documented and communicated throughout the organisation, and shall include a definition of the levels of management with authority to make decisions regarding safety risk tolerability.

(c) Appointment of key safety personnel

The Aviation Training Organisation shall identify a safety manager to be the responsible individual and focal point for the implementation and maintenance of an effective SMS.

(d) Coordination of emergency response planning

The Aviation Training Organisation shall ensure that an emergency response plan that provides for the orderly and efficient transition from normal to emergency operations and the return to normal operations is properly coordinated with the emergency response plans of those organisations it must interface with during the provision of its services.

(e) SMS documentation

The Aviation Training Organisation shall develop an SMS implementation plan, endorsed by senior management of the organisation that defines the organisation's approach to the management of safety in a manner that meets the organisation's safety objectives. The Aviation Training Organisation shall develop and maintain SMS documentation describing the safety policy and objectives, the SMS requirements, the SMS processes and procedures, the accountabilities, responsibilities and authorities for processes and procedures, and the SMS outputs.

Also as part of the SMS documentation, the Aviation Training Organisation shall develop and maintain a safety management system manual (SMSM), to communicate its approach to the management of safety throughout the organisation.

2. Safety Risk Management

(a) Hazard identification

The Aviation Training Organisation shall develop and maintain a formal process that ensures that hazards in operations are identified. Hazard identification shall be based on a combination of reactive, proactive and predictive methods of safety data collection.

(b) Safety risk assessment and mitigation

The Aviation Training Organisation shall develop and maintain a formal process that ensures analysis, assessment and control of the safety risks in training operations.

3. Safety Assurance

(a) Safety performance monitoring and measurement

The Aviation Training Organisation shall develop and maintain the means to verify the safety performance of the organisation and to validate the effectiveness of safety risk controls. The safety performance of the organisation shall be verified in reference to the safety performance indicators and safety performance targets of the SMS.

(b) The management of change

The Aviation Training Organisation shall develop and maintain a formal process to identify changes within the organisation which may affect established processes and services; to describe the arrangements to ensure safety performance before implementing changes; and to eliminate or modify safety risk controls that are no longer needed or effective due to changes in the operational environment.

(c) Continuous improvement of the SMS

The Aviation Training Organisation shall develop and maintain a formal process to identify the causes of substandard performance of the SMS, determine the implications of substandard performance of the SMS in operations, and eliminate or mitigate such causes.

4. Safety Promotion

(a) Training and education

The Aviation Training Organisation shall develop and maintain a safety training programme that ensures that personnel are trained and competent to perform the SMS duties. The scope of the safety training shall be appropriate to each individual's involvement in the SMS.

(b) Safety communication

The Aviation Training Organisation shall develop and maintain formal means for safety communication that ensures that all personnel are fully aware of the SMS, conveys safety-critical information, and explains why particular safety actions are taken and why safety procedures are introduced or changed.

SCHEDULE 3

[Regulation 19 (15)]

An applicant for, and holder of, an Approved Training Organisation certificate shall have facilities the Authority determines are appropriate for the maximum number of students expected to be taught at any time, as follows:

- (a) an enclosed classroom;
- (b) suitable facilities arranged to assure proper separation from the working space, for parts, tools, materials, and

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similar articles;

- (c) suitable area for application of finishing materials, including paint spraying;
- (d) suitable areas equipped with wash tank and degreasing equipment with air pressure or other adequate cleaning equipment;
- (e) suitable facilities for running engines;
- (f) suitable area with adequate equipment, including benches, tables, and test equipment, to disassemble, service, and inspect –
 - (i) ignition systems, electrical equipment, and appliances;
 - (ii) carburettors and fuel systems; and
 - (iii) hydraulic and vacuum systems for aircraft, aircraft engines, and their appliances;
- (g) suitable space with adequate equipment, including tables, benches, stands, and jacks, for disassembling, inspecting, and rigging aircraft;
- (h) suitable space with adequate equipment for disassembling, inspecting, assembling, troubleshooting, and timing engines.

SCHEDULE 4

IMPLEMENTING STANDARDS

Regulation 19 (18) Airport Requirements

An applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall show that the airport at which training flights originate has the following:

- (a) at least one (1) runway or take-off area that allows training aircraft to make a normal take-off and landing at the aircraft's maximum certified take-off gross weight under the following conditions:
 - (i) wind not more than five (5) knots;
 - (ii) temperatures equal to the mean high temperature for the hottest month of the year in the operating area;
 - (iii) if applicable, with the powerplant operation, and landing gear and flap operation recommended by the manufacturer; and in the case of a take-off—

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- (A) with smooth transition from lift-off to the best rate of climb speed without exceptional piloting skills or techniques; and
 - (B) clearing all obstacles in the take-off flight path by at least fifty (50) feet;
- (b) a wind direction indicator that is visible from the end of each runway at ground level;
- (c) a traffic direction indicator when—
- (i) the airport does not have an operating control tower; and
 - (ii) traffic and wind advisories are not available;
- (d) except as provided in paragraph (e), permanent runway lights if that airport is to be used for night training flights; and
- (e) adequate non-permanent lighting or shoreline lighting for an airport or seaplane base for night training flights in seaplanes, if approved by the Authority.

Regulation 31(1)(a)(i): Private Pilot Licensing Course

The following curriculum meets the minimum curriculum standard for a private pilot licensing course:

(1) Ratings:

- (a) aeroplane single-engine;
- (b) aeroplane multi-engine;
- (c) rotorcraft helicopter;

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- (d) rotorcraft gyroplane;
- (e) powered-lift;
- (f) glider;
- (g) lighter-than-air airship; and
- (h) lighter-than-air balloon.

(2) Eligibility for enrolment: A person shall hold a student pilot licence prior to enrolling in the flight portion of the private pilot licensing course.

(3) Aeronautical knowledge training:

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each approved course includes at least the following hours of ground training on the following aeronautical knowledge areas, appropriate to the aircraft category and class rating—
 - (i) thirty-five (35) hours for an aeroplane, rotorcraft, or powered-lift category rating;
 - (ii) fifteen (15) hours for a glider category rating;
 - (iii) ten (10) hours for a lighter-than-air category with a balloon class rating; and
 - (iv) thirty-five (35) hours for a lighter-than-air category with an airship class rating; and
- (b) ground training shall include the following aeronautical knowledge areas:

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- (i) applicable Guyana regulations for private pilot privileges, limitations, and flight operations;
- (ii) accident reporting requirements of Guyana;
- (iii) applicable subjects of the Authority providing aeronautical information publications;
- (iv) aeronautical charts for visual flight rules navigation using pilotage, dead reckoning, and navigation systems;
- (v) radio communication procedures;
- (vi) recognition of critical weather situations from the ground and in flight, wind shear avoidance, and the procurement and use of aeronautical weather reports and forecasts;
- (vii) safe and efficient operation of aircraft, including collision avoidance, and recognition and avoidance of wake turbulence;
- (viii) effects of density altitude on take-off and climb performance;
- (ix) weight and balance computations;
- (x) principles of aerodynamics, powerplants, and aircraft systems;

- (xi) if the training course is for an aeroplane category or glider category rating, stall awareness, spin entry, spins, and spin recovery techniques;
- (xii) aeronautical decision making and judgement; and
- (xiii) pre-flight action that includes:
 - (A) obtaining information on runway lengths, data on take-off and landing distances, weather reports and forecasts, and fuel requirements; and
 - (B) planning for alternatives if a planned flight cannot be completed or delays are encountered.

(4) Flight training:

- (a) each applicant for, and holder of, an aviation training organisation certificate with this training specification shall include at least the following hours of flight training on the areas of operation listed in paragraph (d), appropriate to the aircraft category and class rating:
 - (i) thirty-five (35) hours for an aeroplane, rotorcraft, powered-lift, or airship rating;
 - (ii) six (6) hours for a glider rating; and
 - (iii) eight (8) hours for a balloon rating;

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- (b) each applicant for, and holder of, an aviation training organisation certificate with this training specification shall include at least the following hours of flight training in each course:
- (i) for each category and class, unless otherwise noted, twenty (20) hours from a flight instructor on the applicable areas of operation that includes at least—
 - (A) three (3) hours of cross-country flight training in the category and class involved;
 - (B) three (3) hours of night flight training in the category and class involved that includes—
 - (I) one (1) cross-country flight of more than one hundred nautical miles (100 nm) total distance; and
 - (II) ten (10) take-offs and ten (10) landings to a full stop (with each landing involving a flight in the traffic pattern);
 - (C) three (3) hours of instrument training in the category and class involved; and

- (D) three (3) hours in the category and class involved in preparation for the practical test within sixty (60) days preceding the date of the test;
- (c) specific training for other categories and classes as shown:
- (i) for a rotorcraft helicopter and gyroplane course three (3) hours of night flight training in a helicopter that includes one (1) cross-country flight of more than fifty nautical miles (50 nm) total distance;
 - (ii) for a glider course: four (4) hours from a flight instructor on the applicable areas of operation in paragraphs (d) and (e) that includes at least—
 - (A) five (5) training flights in a glider on launch/tow procedures approved for the course and in the applicable areas of operation listed in paragraphs (d) and (e); and
 - (B) three (3) training flights in a glider in preparation for the practical test within sixty (60) days preceding the date of the test;
 - (iii) for a lighter-than-air airship course: twenty (20) hours from a commercial pilot

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with an airship rating on the applicable areas of operation in paragraphs (d) and (e) that include at least—

(A) three (3) hours cross country training in an airship;

(B) three (3) hours of night flight training in an airship that includes—

(I) one (1) cross-country flight over twenty-five nautical miles (25 nm) total distance; and

(II) five (5) take-offs and five (5) landings to a full stop (with each landing involving a flight in the traffic pattern);

(iv) for a lighter-than-air balloon course: eight (8) hours, including at least five (5) flights, from a commercial pilot with a balloon rating on the applicable areas of operation in paragraphs (d) and (e), that includes—

(A) if the training is being performed in a gas balloon—

(I) two (2) flights of one (1) hour each;

(II) one (1) flight involving a control-led ascent to three thousand feet (3,000 ft) above the launch site; and

(III) two (2) flights in preparation for the practical test within sixty (60) days preceding the date of the test.

(B) if the training is being performed in a balloon with an airborne heater—

(I) two (2) flights of thirty (30) minutes each;

(II) one (1) flight involving a control-led ascent to two thousand feet (2,000 ft) above the launch site; and

(III) two (2) flights in preparation for the practical test within sixty (60) days preceding

the date of the test;

(d) each approved course shall include flight training in the following areas of operation that are applicable to the aircraft category and class rating:

- (i) pre-flight preparation;
- (ii) pre-flight procedures;
- (iii) airport and seaplane base operations;
- (iv) take-offs, landings, and go-arounds;
- (v) performance manoeuvres;
- (vi) ground reference manoeuvres;
- (vii) navigation;
- (viii) slow flight and stalls;
- (ix) basic instrument manoeuvres;
- (x) emergency operations;
- (xi) night operations; and
- (xii) post-flight procedures; and

(e) in addition, for the specific category and class of aircraft shown, each approved course shall include the applicable flight training in the following areas of operation:

- (i) for a multi-engine aeroplane course: multi-engine operations;

- (ii) for a rotorcraft helicopter course: hovering manoeuvres;
- (iii) for a rotorcraft gyroplane course: flight at slow airspeeds;
- (iv) for a powered-lift course: hovering manoeuvres;
- (v) for a glider course—
 - (A) launches/tows, as appropriate, and landings;
 - (B) performance speeds; and
 - (C) soaring techniques;
- (vi) for a lighter-than-air balloon course launches and landings;

(5) Solo flight training – Each approved course shall include at least the following solo flight training:

- (a) for an aeroplane single-engine course: five (5) hours of solo flight training in a single-engine aeroplane on the applicable areas of operation paragraph (4)(d) that includes at least—
 - (i) one (1) solo cross-country flight of at least one hundred nautical miles (100 nm) with landings at a minimum of three (3) points, and one (1) segment of the flight consisting of a straight-line distance of at least fifty nautical miles (50 nm) between the take-off and landing locations; and

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- (ii) three (3) take-offs and three (3) landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport with an operating control tower;
- (b) for an aeroplane multi-engine course: five (5) hours of flight training in a multi-engine aeroplane performing the functions of a pilot-in-command while under the supervision of a flight instructor, the training shall consist of the applicable areas of operation in paragraph (4)(d) and include at least—
- (i) one (1) cross-country flight of at least one hundred nautical miles (100 nm) with landings at a minimum of three (3) points, and one (1) segment of the flight consisting of a straight-line distance of at least fifty nautical miles (50 nm) between the take-off and landing locations; and
 - (ii) three (3) take-offs and three (3) landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport with an operating control tower;
- (c) for a rotorcraft helicopter course: five (5) hours of solo flight training in a helicopter on the applicable areas of operation in paragraph (4)(d) that includes at least—
- (i) one (1) solo cross-country flight of more than fifty nautical miles (50 nm) with landings at a minimum of three (3) points, and one (1) segment of the flight consisting of a straight-line distance of at least twenty-five nautical miles (25 nm) between the take-off and landing locations; and

- (ii) three (3) take-offs and three (3) landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport with an operating control tower;
- (d) for a rotorcraft gyroplane course: five (5) hours of solo flight training in gyroplanes on the applicable areas of operation in paragraph (4)(d) that includes at least—
- (i) one (1) solo cross-country flight of more than fifty nautical miles (50 nm) with landings at a minimum of three (3) points, and one (1) segment of the flight consisting of a straight-line distance of at least twenty-five nautical miles (25 nm) between the take-off and landing locations; and
 - (ii) three (3) take-offs and three (3) landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport with an operating control tower;
- (e) for a powered-lift course: five (5) hours of solo flight training in a powered-lift on the applicable areas of operation in paragraph (4)(d) that includes at least—
- (i) one (1) solo cross-country flight of at least one hundred nautical miles (100 nm) with landings at a minimum of three (3) points, and one (1) segment of the flight consisting of a straight-line distance of at least fifty nautical miles (50 nm) between the take-off and landing locations;
 - (ii) three (3) take-offs and three (3) landings to a full stop (with each landing involving a

flight in the traffic pattern) at an airport with an operating control tower; and

- (iii) transition from hover to forward flight using wing lift;
 - (f) for a glider course: two (2) solo flights in a glider on the applicable areas of operation in paragraph (4)(d) and the launch and tow procedures appropriate for the approved course;
 - (g) for a lighter-than-air airship course: five (5) hours of flight training in the applicable areas of operation shown in paragraph (4)(d) in an airship performing the functions of pilot-in-command while under the supervision of a commercial pilot with an airship rating; and
 - (h) for a lighter-than-air balloon course: training on the applicable areas of operation in paragraph (4)(d), as applicable;
 - (i) two (2) solo flights in a balloon with an airborne heater; or
 - (ii) at least two (2) flights in a gas balloon performing the functions of pilot-in-command while under the supervision of a commercial pilot with a balloon rating.
- (6) Stage checks and end-of-course tests—
- (a) each student, to graduate from a private pilot course shall satisfactorily accomplish the stage checks and end-of-course tests, consisting of the applicable areas of operation listed in paragraph (4)(d) for the aircraft category and class rating; and

- (b) each student shall demonstrate satisfactory proficiency prior to being endorsed to operate an aircraft in solo flight.

Regulation 31(1)(a)(ii): Instrument Rating Course

The following curriculum meets the minimum curriculum standard for an instrument rating course and additional instrument rating course:

(1) Ratings—

- (a) instrument: aeroplane;
- (b) instrument: helicopter; and
- (c) instrument: powered-lift.

(2) Eligibility for enrolment. A person shall hold at least a private pilot licence with an aircraft category and class rating appropriate to the instrument rating for which the course applies prior to enrolling in that portion of the instrument rating course.

(3) Aeronautical knowledge training—

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each approved course includes at least the following hours of ground training on the aeronautical knowledge areas appropriate to the instrument rating sought:
 - (i) thirty (30) hours for an initial instrument rating; and
 - (ii) twenty (20) hours for an additional instrument rating; and

(b) ground training shall include the following aeronautical knowledge areas:

- (i) applicable Guyana regulations for IFR flight operations;
- (ii) appropriate information in aeronautical information publications provided by the Authority;
- (iii) air traffic control system and procedures for instrument flight operations;
- (iv) IFR navigation and instrument approaches to an airport by use of navigation systems;
- (v) use of IFR *en route* and instrument approach procedure charts;
- (vi) procurement and use of aviation weather reports and forecasts, and the elements of forecasting weather trends on the basis of that information and personal observation of weather conditions;
- (vii) safe and efficient operation of aircraft under IFR conditions;
- (viii) recognition of critical weather situations and wind-shear avoidance;
- (ix) aeronautical decision making and judgement; and
- (x) crew resource management, to include crew communication and co-ordination.

(4) Flight training:

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least the following hours of flight training on the applicable areas of operation listed in paragraph (c):
- (i) thirty-five (35) hours for an initial instrument rating; and
 - (ii) fifteen (15) hours for an additional instrument rating;
- (b) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes the following flight training:
- (i) for an instrument aeroplane course: instrument training from a flight instructor with an instrument rating on the applicable areas of operation in paragraph (c) including at least one (1) cross-country flight that—
 - (A) is in the category and class of aeroplane that the course is approved for, and is performed under IFR
 - (B) is a distance of at least two hundred and fifty nautical miles (250 nm) with one (1) segment of the flight consisting of at least a straight-line distance of one hundred nautical miles (100 nm) between airports;

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- (C) involves an instrument approach at each airport; and
 - (D) involves three (3) approaches with the use of different kinds of navigation systems;
- (ii) for an instrument helicopter course: instrument training from a licensed flight instructor with an instrument rating on the applicable areas of operation in paragraph (c) including at least one (1) cross-country flight that—
- (A) is performed in a helicopter under IFR;
 - (B) is a distance of at least one hundred nautical miles (100 nm) with one (1) segment of the flight consisting of at least a straight-line distance of fifty nautical miles (50 nm) between airports;
 - (C) involves an instrument approach at each airport; and
 - (D) involves three (3) approaches with the use of different kinds of navigation systems;
- (iii) for an instrument powered-lift course: instrument training from a flight instructor with an instrument

rating on the areas of operation in paragraph (c) including at least one (1) cross-country flight that –

- (A) is in a powered-lift and is performed under IFR;
- (B) involves transition from wing-borne to rotor borne flight under IFR;
- (C) is a distance of at least two hundred and fifty nautical miles (250 nm) with one (1) segment of the flight consisting of at least a straight-line distance of one hundred nautical miles (100 nm) between airports;
- (D) involves an instrument approach at each airport; and
- (E) involves three (3) different kinds of approaches with the use of navigation systems; and

(c) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes the flight training on the applicable areas of operation listed in this paragraph appropriate to the instrument aircraft category and class rating –

- (i) pre-flight preparation;
- (ii) pre-flight procedures;

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- (iii) air traffic control clearances and procedures;
- (iv) flight by reference to instruments;
- (v) navigation systems;
- (vi) instrument approach procedures;
- (vii) emergency operations; and
- (viii) post-flight procedures.

(5) Stage checks and end-of-course tests. Each student, to graduate from an instrument rating course shall satisfactorily accomplish the stage checks and end-of course tests, consisting of the areas of operation listed in paragraph (4)(c) that are appropriate to the aircraft category and class rating.

Regulation 31(1)(a)(iii): Commercial Pilot Licensing Course

The following curriculum meets the minimum curriculum standard for a commercial pilot licensing course:

(1) Ratings:

- (a) aeroplane single-engine;
- (b) aeroplane multi-engine;
- (c) rotorcraft helicopter;
- (d) rotorcraft gyroplane;
- (e) powered-lift;
- (f) glider;

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- (g) lighter-than-air airship; and
- (h) lighter-than-air balloon.

(2) Eligibility for enrolment: A person shall hold the following prior to enrolling in the flight portion of the commercial pilot licensing course:

- (a) at least a private pilot licence; and
- (b) if the course is for a rating in an aeroplane or a powered-lift category—
 - (i) hold an instrument rating in the aircraft that is appropriate to the aircraft category rating for which the course applies; or
 - (ii) be enrolled concurrently in an instrument rating course that is appropriate to the aircraft category rating for which the course applies, and pass the required instrument rating practical test prior to completing the commercial pilot licensing course.

(3) Aeronautical knowledge training—

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least the following ground training on the applicable aero-nautical knowledge areas listed in paragraph (b):
 - (i) sixty-five (65) hours for an aeroplane category rating, powered-lift category rating, or a lighter-than-air category with an air-ship class rating;

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- (ii) thirty (30) hours for a rotorcraft category rating;
 - (iii) twenty (20) hours for a glider category rating; and
 - (iv) twenty (20) hours for a lighter-than-air category with a balloon class rating;
- (b) ground training shall include the following aeronautical knowledge areas:
- (i) Guyana regulations that apply to commercial pilot privileges, limitations, and flight operations;
 - (ii) accident reporting requirements of Guyana;
 - (iii) basic aerodynamics and the principles of flight;
 - (iv) meteorology, to include recognition of critical weather situations, wind-shear recognition and avoidance, and the use of aero-nautical weather reports and forecasts;
 - (v) safe and efficient operation of aircraft;
 - (vi) weight and balance computations;
 - (vii) use of performance charts;
 - (viii) significance and effects of exceeding aircraft performance limitations;

- (ix) use of aeronautical charts and a magnetic compass for pilotage and dead reckoning;
- (x) use of air navigation facilities;
- (xi) aeronautical decision making and judgement;
- (xii) principles and functions of aircraft systems;
- (xiii) manoeuvres, procedures, and emergency operations appropriate to the aircraft;
- (xiv) night and high-altitude operations;
- (xv) descriptions of and procedures for operating within the Guyana airspace system; and
- (xvi) procedures for flight and ground training for lighter-than-air ratings.

(4) Flight training:

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least the following flight training on the applicable areas of operation listed in subparagraph (c)—
 - (i) one hundred and fifty-five (155) hours for an aeroplane, powered-lift, or an airship rating;
 - (ii) one hundred and fifteen (115) hours for a rotorcraft rating;

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- (iii) six (6) hours for a glider rating; and
 - (iv) ten (10) hours and eight (8) training flights for a balloon rating.
- (b) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least the following flight training:
- (i) for an aeroplane single-engine course: fifty-five (55) hours of flight training from a licensed flight instructor on the areas of operation listed in subparagraph (c) that includes at least—
 - (A) five (5) hours of instrument training in a single-engine aeroplane;
 - (B) ten (10) hours of training in a single-engine aeroplane that has retractable landing gear, flaps, and a controllable pitch propeller, or is turbine-powered;
 - (C) one (1) cross-country flight in a single-engine aeroplane of at least a 2-hour duration, a total straight-line distance of more than one hundred nautical miles (100 nm) from the original point of departure, and occurring in day visual flight rules conditions;

(D) one (1) cross-country flight in a single-engine aeroplane of at least a 2-hour duration, a total straight-line distance of more than one hundred nautical miles (100 nm) from the original point of departure, and occurring in night visual flight rules conditions; and

(E) three (3) hours in a single-engine aeroplane in preparation for the practical test within sixty (60) days pre-ceding the date of the test;

(ii) for an aeroplane multi-engine course: the flight training shown in paragraph (c), accomplished in a multi-engine aeroplane;

(iii) for a rotorcraft helicopter and gyroplane course: the flight training shown in paragraph (c), accomplished in a helicopter; except thirty (30) hours of flight training from a flight instructor on the areas of operation listed in subparagraphs (c) and (d) that includes at least—

(A) five (5) hours of instrument training;

(B) one (1) cross-country flight in a helicopter of at least a 2-hour duration, a total straight-line distance of

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more than fifty nautical miles (50 nm) from the original point of departure, and occurring in day visual flight rules conditions; and

(C) one (1) cross-country flight in a helicopter of at least a 2-hour duration, a total straight-line distance of more than fifty nautical miles (50 nm) from the original point of departure, and occurring in night visual flight rules conditions;

(iv) for a powered-lift course: the applicable flight training shown in paragraph (c), flown in a powered-lift aircraft;

(v) for a glider course: four (4) hours of flight training from a flight instructor on the areas of operation in subparagraphs (c) and (d), that includes at least—

(A) five (5) training flights in a glider on launch/tow procedures approved for the course and on the appropriate areas of operation listed in subparagraphs (c) and (d); and

(B) three (3) training flights in a glider in preparation for the practical test within the

sixty (60) days preceding
the date of the test;

(vi) for a lighter-than-air airship course: fifty-five (55) hours of training in airships from a commercial pilot with an airship rating on the areas of operation in subparagraphs (c) and (d) that includes at least—

(A) three (3) hours of instrument training in an airship;

(B) one (1) cross-country flight in an airship of at least a 1-hour duration, a total straight-line distance of more than twenty-five nautical miles (25 nm) from the original point of departure, and occurring in day visual flight rules conditions;

(C) one (1) cross-country flight in an airship of at least a 1-hour duration, a total straight-line distance of more than twenty-five nautical miles (25 nm) from the original point of departure, and occurring in night visual flight rules conditions; and

(D) three (3) hours in an airship, in preparation for the practical test within sixty

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(60) days preceding the date of the test;

(vii) for a lighter-than-air balloon course: flight training from a commercial pilot with a balloon rating on the areas of operation in paragraph (5)(h) that includes at least—

(A) for a gas balloon—

(I) two (2) flights of 1 hour each;

(II) one (1) flight involving a control-led ascent to at least five thousand feet (5,000ft) above the launch site; and

(III) two (2) flights in preparation for the practical test within sixty (60) days preceding the date of the test;

(B) for a balloon with an air-borne heater—

(I) two (2) flights of thirty (30) minutes each;

- (II) one (1) flight involving a control-led ascent to at least three thousand feet (3,000 ft) above the launch site; and
 - (III) two flights in preparation for the practical test within sixty (60) days preceding the date of the test;
- (c) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes the flight training on the following areas of operation, as applicable:
- (i) for an aeroplane single-engine course—
 - (A) pre-flight preparation;
 - (B) pre-flight procedures;
 - (C) airport and seaplane base operations;
 - (D) take-offs, landings, and go-arounds;
 - (E) performance manoeuvres;
 - (F) navigation;

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- (G) slow flight and stalls;
 - (H) emergency operations;
 - (I) high-altitude operations; and
 - (J) post-flight procedures;
- (ii) for an aeroplane multi-engine course –
- (A) pre-flight preparation;
 - (B) pre-flight procedures;
 - (C) airport and seaplane base operations;
 - (D) take-offs, landings, and go-arounds;
 - (E) performance manoeuvres;
 - (F) navigation;
 - (G) slow flight and stalls;
 - (H) emergency operations;
 - (I) high-altitude operations; and
 - (J) post-flight procedures;
- (d) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course for the

following category and class ratings includes flight training on the applicable areas of operation:

- (i) for an aeroplane multi-engine course:
multi-engine operations;
- (ii) for a rotorcraft helicopter course—
 - (A) hovering manoeuvres;
 - (B) transition to wing-borne flight;
 - (C) transition to hover; and
 - (D) special operations;
- (iii) for a rotorcraft gyroplane course: flight at slow airspeeds;
- (iv) for a powered-lift course—
 - (A) hovering manoeuvres; and
 - (B) special operations;
- (v) for a glider course—
 - (A) launches or tows, as appropriate, and landings; and
 - (B) soaring techniques;
- (vi) for a lighter-than-air airship course—
 - (A) fundamentals of instructing;

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- (B) technical subjects; and
- (C) pre-flight lessons on a manoeuvre to be performed in flight;

(vii) for a lighter-than-air balloon course—

- (A) fundamentals of instructing;
- (B) technical subjects;
- (C) pre-flight lesson on a manoeuvre to be performed in flight; and
- (D) launches and landings.

(5) Solo Flight training. Each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications, shall ensure that each approved course includes at least the following solo flight training:

- (a) for an aeroplane single-engine course— ten (10) hours of solo flight training in a single-engine aeroplane on the areas of operation in paragraph (4)(c)(i) that include at least—
 - (i) one (1) cross-country flight, if the training is being performed on a small island, with landings at a minimum of three (3) points, and one (1) of the segments consisting of a straight-line distance of at least one hundred and fifty nautical miles (150 nm);
 - (ii) one (1) cross-country flight, if the training is being performed on other than a small

island, with landings at a minimum of three (3) points, and one (1) segment of the flight consisting of a straight-line distance of at least two hundred and fifty nautical miles (250 nm); and

- (iii) five (5) hours in night visual flight rules conditions with ten (10) take-offs and ten (10) landings with each landing involving a flight with a traffic pattern at an airport with an operating control tower;
- (b) for an aeroplane multi-engine course, ten (10) hours of flight training in a multi-engine aeroplane performing the functions of pilot-in-command while under the supervision of a flight instructor, consisting of the areas of operation in paragraph (4)(d)(i) that include at least—
- (i) one (1) cross-country flight, if the training is being performed on a small island, with landings at a minimum of three (3) points, and one (1) of the segments consisting of a straight-line distance of at least one hundred and fifty nautical miles (150 nm);
 - (ii) one (1) cross-country flight, if the training is being performed on a small island, with landings at a minimum of three (3) points and one (1) segment of the flight consisting of a straight-line distance of at least two hundred and fifty nautical miles (250 nm); and
 - (iii) five (5) hours in night visual flight rules conditions with ten (10) take-offs and ten (10) landings with each landing involving a flight with a traffic pattern at an airport with an operating control tower;

- (c) for a rotorcraft helicopter course: ten (10) hours of solo flight training in a helicopter on the areas of operation in paragraph (4)(d)(ii) that include at least—
- (i) one (1) cross-country flight with landings at a minimum of three (3) points and one (1) segment of the flight consisting of a straight-line distance of at least fifty nautical miles (50 nm) from the original point of departure; and
 - (ii) five (5) hours in night visual flight rules conditions with ten (10) take-offs and ten (10) landings with each landing involving a flight with a traffic pattern at an airport with an operating control tower;
- (d) for a rotorcraft or gyroplane course: ten (10) hours of solo flight training in a gyroplane on the areas of operation in paragraph (4)(d)(iii) that include at least—
- (i) one (1) cross-country flight with landings at a minimum of three (3) points, and one (1) segment of the flight consisting of a straight-line distance of at least fifty nautical miles (50 nm) from the original point of departure; and
 - (ii) five (5) hours in night visual flight rules conditions with ten (10) take-offs and ten (10) landings with each landing involving a flight with a traffic pattern at an airport with an operating control tower;
- (e) for a powered-lift course: ten (10) hours of solo flight training in a powered-lift on the areas of operation in paragraph (4)(d)(iv) that include at least—

- (i) one (1) cross-country flight, if the training is being performed on a small island, with landings at a minimum of three (3) points, and one (1) segment of the flight consisting a straight-line distance of at least one hundred and fifty nautical miles (150 nm);
 - (ii) one (1) cross-country flight, if the training is being performed on a small island, with landings at a minimum of three (3) points, and one (1) segment of the flight consisting of a straight-line distance of at least two hundred and fifty nautical miles (250 nm); and
 - (iii) five (5) hours in night visual flight rules conditions with ten (10) take-offs and ten (10) landings with each landing involving a flight with a traffic pattern at an airport with an operating control tower;
- (f) for a glider course: five (5) solo flights in a glider on the areas of operation in paragraph (4)(d)(v);
- (g) for a lighter-than-air airship course: ten (10) hours of flight training in an airship, while performing the functions of pilot-in-command under the supervision of a commercial pilot with an airship rating consisting of the areas of operation in paragraph (4)(d)(vi) that include at least—
- (i) one (1) cross-country flight with landings at a minimum of three (3) points, and one (1) segment of the flight consisting of a straight-line distance of at least twenty-five nautical miles (25 nm) from the original point of departure; and

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- (ii) five (5) hours in night visual flight rules conditions with ten (10) take-offs and ten (10) landings with each landing involving a flight with a traffic pattern;

(h) for a lighter-than-air balloon course—

- (i) training on the applicable areas of operation in paragraph (4)(d)(vii), while performing the duties of pilot-in-command under the supervision of a commercial pilot with a balloon rating;
- (ii) two (2) solo flights for a hot air balloon rating; and
- (iii) at least two (2) flights in a gas balloon for a gas balloon rating;

(6) Stage checks and end-of-course tests:

- (a) each student, to graduate from a commercial pilot course, shall satisfactorily accomplish the stage checks and end-of course tests consisting of the applicable areas of operation listed in paragraph (4)(d); and
- (b) each student shall demonstrate satisfactory proficiency prior to being endorsed to operate an aircraft in solo flight.

Regulation 31(1)(a)(iv): Airline Transport Pilot Licensing Course

The following curriculum meets the minimum curriculum standard for an Airline Transport Pilot Licensing Course:

(1) Rating:

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- (a) aeroplane single-engine;
- (b) aeroplane multi-engine;
- (c) rotorcraft helicopter;
- (d) powered-lift.

(2) Eligibility for enrolment: Prior to enrolling in the flight portion of the airline transport pilot licensing course, a person shall –

- (a) meet the aeronautical experience requirements prescribed in Civil Aviation General Application and Personnel Licensing Regulations, Part III for an Airline Transport Pilot Licence that is appropriate to the aircraft category and class rating for which the course applies;
- (b) hold at least a commercial pilot license and an instrument rating;
- (c) meet the military experience requirements under Civil Aviation General Application and Personnel Licensing Regulations, to qualify for a Commercial Pilot Licence and an instrument rating, if the person is a rated military pilot or former rated military pilot of an armed force of Guyana; or
- (d) hold a foreign Airline Transport Pilot License or foreign Commercial Pilot Licence and an instrument rating, issued by a contracting state to the convention on international civil aviation.

(3) Aeronautical knowledge areas:

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at

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least forty (40) hours of ground training on the applicable aeronautical knowledge areas listed in paragraph (b);

- (b) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that ground training includes the following aeronautical knowledge areas:
- (i) applicable Guyana regulations that relate to airline transport pilot privileges, limitations, and flight operations;
 - (ii) meteorology, including knowledge of and effects of fronts, frontal characteristics, cloud formations, icing, and upper air data;
 - (iii) general system of weather and NOTAM collection, dissemination, interpretation, and use;
 - (iv) interpretation and use of weather charts, maps, forecasts, sequence reports, abbreviations, symbols;
 - (v) Guyana weather service functions as they pertain to operations in the Guyana air-space system;
 - (vi) wind-shear and microburst awareness, identification and avoidance;
 - (vii) principles of air navigation under instrument meteorological conditions in the Guyana airspace system;
 - (viii) air traffic control procedures and pilot responsibilities as they relate to *en route*

operations, terminal area and radar operations, and instrument departure and approach procedures;

- (ix) aircraft loading, weight and balance, use of charts, graphs, tables, formulas, and computations and the effects on aircraft performance;
- (x) aerodynamics relating to an aircraft's flight characteristics and performance in normal and abnormal flight regimes;
- (xi) human factors;
- (xii) aeronautical decision making and judgement; and
- (xiii) crew resource management to include crew communication and co-ordination.

(4) Flight training:

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least twenty-five (25) hours of flight training on the applicable areas of operation listed in paragraph (b), including at least fifteen (15) hours of instrument flight training; and
- (b) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes flight training on the following areas of operation, as applicable:
 - (i) pre-flight preparation;

- (ii) pre-flight procedures;
- (iii) take-off and departure phase;
- (iv) in-flight manoeuvres;
- (v) instrument procedures;
- (vi) landings and approaches to landings;
- (vii) normal and abnormal procedures;
- (viii) emergency procedures; and
- (ix) post-flight procedures.

(5) Stage checks and end-of-course tests. Each student, to graduate from an airline transport pilot course shall satisfactorily accomplish the stage checks and end-of course tests, consisting of the areas of operation listed in paragraph 4(b) that are appropriate to the aircraft category and class rating for which the course applies.

Regulation 31(2)(a)(v): Flight Instructor Course

The following curriculum meets the minimum curriculum standard for a flight instructor licensing course and an additional flight instructor rating course:

(1) Rating:

- (a) aeroplane single-engine;
- (b) aeroplane multi-engine;
- (c) rotorcraft helicopter;
- (d) rotorcraft gyroplane;

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- (e) powered-lift; and
- (f) glider category.

(2) Eligibility for enrolment: A person shall hold the following prior to enrolling in the flight portion of the flight instructor or additional flight instructor rating course:

- (a) a commercial pilot license or an airline transport pilot license with an aircraft category and class rating appropriate to the flight instructor rating for which the course applies; and
- (b) an instrument rating or privilege in an aircraft that is appropriate to the aircraft category and class rating for which the course applies, if the course is for a flight instructor aeroplane or powered-lift instrument rating.

(3) Aeronautical knowledge training:

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least the following ground training in the aeronautical knowledge areas listed in paragraph (b):
 - (i) forty (40) hours of training if the course is for an initial issuance of a flight instructor certificate; or
 - (ii) twenty (20) hours of training if the course is for an additional flight instructor rating;
- (b) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that ground training includes the following aeronautical knowledge areas:

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- (i) the fundamentals of instructing, including:
 - (A) the learning process;
 - (B) elements of effective teaching;
 - (C) student evaluation and testing;
 - (D) course development;
 - (E) lesson planning; and
 - (F) classroom training techniques; and
- (ii) the aeronautical knowledge areas required for—
 - (A) a private and commercial pilot licence that is appropriate to the category and class rating sought; and
 - (B) an instrument rating that is appropriate to the aircraft category and class rating for which the course applies, if the course is for an aeroplane or powered-lift aircraft rating; and
- (c) an approved training organisation certificate with Level 1 Flight Training Specifications may credit a student who satisfactorily completes two (2) years of study on the principles of education at a college or university

with no more than twenty (20) hours of the training required in subparagraph (a)(i).

(4) Flight training:

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least the following flight training on the applicable areas of operation of subparagraphs (b) and (c):
- (i) twenty-five (25) hours for an aeroplane, rotorcraft, or powered-lift rating; and
 - (ii) ten (10) hours and ten (10) flights for a glider category rating;
- (b) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes flight training on the following areas of operation, as applicable for each category and class:
- (i) fundamentals of instructing;
 - (ii) technical subject areas;
 - (iii) pre-flight preparation;
 - (iv) pre-flight lesson on a manoeuvre to be performed in flight;
 - (v) pre-flight procedures;
 - (vi) airport and seaplane base operations;
 - (vii) take-offs, landings, and go-arounds

- (viii) fundamentals of flight;
- (ix) performance manoeuvres;
- (x) ground reference manoeuvres;
- (xi) slow flight, stalls, and spins;
- (xii) basic instrument manoeuvres;
- (xiii) emergency operations;
- (xiv) post-flight procedures; and

(c) for the category and class of aircraft shown below, each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes flight training in the following areas of operation, as applicable:

- (i) for an aeroplane: multi-engine course, multi-engine operations;
- (ii) for a rotorcraft: helicopter course —
 - (A) hovering manoeuvres;
and
 - (B) special operations;
- (iii) for a rotorcraft: gyroplane course flight at slow airspeeds;
- (iv) for a powered-lift course —
 - (A) hovering manoeuvres;

(B) transition to wing-borne flight;

(C) transition to hover; and

(D) special operations; and

(v) for a glider course—

(A) launches, landings, and go-around;

(B) performance speeds; and

(C) soaring techniques.

(5) Stage checks and end-of-course tests:

(a) each student to graduate from a flight instructor course shall satisfactorily accomplish the stage check and end-of-course tests, consisting of the applicable areas of operation listed in paragraph (4);

(b) a student enrolled in a flight instructor-aeroplane rating or flight instructor-glider rating course shall have—

(i) received a logbook endorsement from a flight instructor certifying the student received ground and flight training on stall awareness, spin entry, spins, and spin recovery procedures in an aircraft that is certified for spins and that is appropriate to the rating sought; and

(ii) demonstrated instructional proficiency in stall awareness, spin entry, spins, and spin recovery procedures.

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Regulation 31(1)(a)(vi): Flight Instructor Instrument Rating Course

The following curriculum meets the minimum curriculum standard for a flight instructor instrument licensing course:

(1) Ratings:

- (a) flight instructor instrument: aeroplane;
- (b) flight instructor instrument: helicopter; and
- (c) flight instructor instrument: powered-lift aircraft.

(2) Eligibility for enrolment: A pilot shall hold, prior to enrolling in the flight portion of the course—

- (a) a commercial pilot licence or airline transport pilot licence with a category and class rating appropriate to the rating sought; and
- (b) for commercial pilot licence holders, an instrument rating that is appropriate to the rating sought.

(3) Aeronautical knowledge training:

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least fifteen (15) hours of ground training on the applicable aeronautical knowledge areas listed in subparagraph (b); and
- (b) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes

ground training on the following aeronautical knowledge areas:

(i) the fundamentals of instructing including—

(A) learning process;

(B) elements of effective teaching;

(C) student evaluation and testing;

(D) course development;

(E) lesson planning; and

(F) classroom training techniques; and

(ii) the aeronautical knowledge areas required for the instrument rating that is appropriate to the category and class of aircraft.

(4) Flight training:

(a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least fifteen (15) hours of flight training in the applicable areas of operation of paragraph (b);

(b) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course for the flight

instructor instrument rating includes flight training on the following areas of operation:

- (i) fundamentals of instructing;
- (ii) technical subject areas;
- (iii) pre-flight preparation;
- (iv) pre-flight lesson on a manoeuvre to be performed in flight;
- (v) air traffic control clearances and procedures;
- (vi) flight by reference to instruments;
- (vii) navigation systems;
- (viii) instrument approach procedures;
- (ix) emergency operations; and
- (x) post-flight procedures.

(5) Stage checks and end-of-course tests: Each student to graduate from a flight instructor instrument course shall satisfactorily accomplish the stage checks and end-of-course tests, consisting of the applicable areas of operation listed in paragraph (4)(b).

Regulation 31(1)(a)(vii): Ground Instructor Authorisation Course

The following curriculum meets the minimum curriculum standard for a ground instructor licensing course and an additional ground instructor rating course, issued under the Civil Aviation General Application and Personnel Licensing Regulations:

(1) Ratings:

- (a) ground instructor: basic;
- (b) ground instructor: advanced; and
- (c) ground instructor: instrument.

(2) Aeronautical knowledge training:

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least the following ground training on the applicable knowledge areas listed in paragraphs (b), (c), (d) and (e);
 - (i) twenty (20) hours of training for an initial issuance of a ground instructor certificate; or
 - (ii) ten (10) hours of training for an additional ground instructor rating;
- (b) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that ground training includes the following aeronautical knowledge areas:
 - (i) learning process;
 - (ii) elements of effective teaching;
 - (iii) student evaluation and testing;
 - (iv) course development;

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- (v) lesson planning; and
- (vi) classroom training techniques;
- (c) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that ground training for a basic ground instructor licence includes the aeronautical knowledge areas applicable to a private pilot;
- (d) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that ground training for an advanced ground instructor rating includes the aeronautical knowledge areas applicable to a private, commercial, and airline transport pilot;
- (e) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that ground training for an instrument ground instructor rating includes the aeronautical knowledge areas applicable to an instrument rating; and
- (f) an approved training organisation certificate with Level 1 Flight Training Specifications may credit a student who satisfactorily completed two (2) years of study on the principles of education at a college or university with ten (10) hours of the training required in paragraph (a)(i);

(3) Stage checks and end-of-course tests:

Each student, to graduate from a ground instructor course shall satisfactorily accomplish the stage checks and end-of-course tests, consisting of the applicable knowledge areas of paragraph (2).

Regulation 31(1)(a)(viii): Additional Aircraft Category or Class Rating Course

The following curriculum meets the minimum curriculum standard for an additional aircraft category rating course or an additional aircraft class rating course:

(1) Ratings:

- (a) aeroplane single-engine;
- (b) aeroplane multi-engine;
- (c) rotorcraft helicopter;
- (d) rotorcraft gyroplane;
- (e) powered-lift;
- (f) glider;
- (g) lighter-than-air airship; and
- (h) lighter-than-air balloon.

(2) Eligibility for enrolment. A person shall hold the level of pilot licence for the additional aircraft category and class rating for which the course applies prior to enrolling in the flight portion of an additional aircraft category or additional aircraft class rating course.

(3) Aeronautical knowledge training. Each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course for an additional category rating and additional class rating includes the total number of hours of training in all the aeronautical knowledge areas appropriate to the aircraft rating and pilot license level sought.

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(4) Flight training. Each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course for an additional aircraft category rating or additional aircraft class includes the total number of hours of flight training on all of the areas of operation of this paragraph appropriate to the aircraft rating and pilot licence level for which the course applies.

(5) Stage checks and end-of-course tests:

- (a) each student, to graduate from an additional aircraft category rating course or an additional aircraft class rating course shall satisfactorily accomplish the stage checks and end-of-course tests, consisting of the applicable areas of operation in paragraph (4); and
- (b) each student shall demonstrate satisfactory proficiency prior to being endorsed to operate an aircraft in solo flight.

Regulation 31(1)(a)(ix): Aircraft Type Rating Course

The following curriculum meets the minimum Level 1 Aviation Training Organisation curriculum standard for an aircraft type rating course for:

(1) Ratings.

- (a) a type rating in an aeroplane category: single-engine class;
- (b) a type rating in an aeroplane category: multi-engine class;
- (c) a type rating in a rotorcraft category: helicopter class;
- (d) a type rating in a powered-lift category; and

- (e) other aircraft type ratings specified by the Authority through the aircraft type certificate procedures.

(2) Eligibility for enrolment:

- (a) prior to enrolling in the flight portion of an aircraft type rating course, a person shall hold at least a private pilot licence;
- (b) an instrument rating in the category and class of aircraft that is appropriate to the aircraft type rating for which the course applies, provided the aircraft's type certificate does not have a visual flight rules limitation; or
- (c) be concurrently enrolled in an instrument rating course in an aircraft of the type rating sought, and pass the required instrument rating practical test concurrently with the type rating practical test.

(3) Aeronautical knowledge training:

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least ten (10) hours of ground training on the applicable aeronautical knowledge areas listed in paragraph (b);
- (b) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that ground training includes the following aeronautical areas:
 - (i) subjects requiring a practical knowledge of the aircraft type and its powerplant, systems, components, operational, and performance factors;

- (ii) the aircraft's normal, abnormal, and emergency procedures, and the operations and limitations relating thereto;
- (iii) appropriate provisions of the approved aircraft's flight manual;
- (iv) location of and purpose of inspecting each item on the aircraft's checklist that relate to the exterior and interior pre-flight; and
- (v) use of the aircraft's prestart checklist, appropriate control system checks, starting procedures, radio and electronic equipment checks, and the selection of proper navigation and communication radio facilities and frequencies.

(4) Flight training:

- (a) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each course includes at least—
 - (i) flight training on the applicable areas of operation of subparagraph (b) in the aircraft type for which the course applies; and
 - (ii) at least five (5) hours shall be instrument training in the aircraft for which the course applies;
- (b) each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each type rating course

includes the flight training on the following areas of operation:

- (i) pre-flight preparation;
- (ii) pre-flight procedures;
- (iii) take-off and departure phase;
- (iv) in-flight manoeuvres;
- (v) instrument procedures;
- (vi) landings and approaches to landings;
- (vii) normal and abnormal procedures;
- (viii) emergency procedures; and
- (ix) post-flight procedures.

(5) Stage checks and end-of-course tests: Each student, to graduate from an aircraft type rating course shall satisfactorily accomplish the stage checks and end-of course tests, consisting of the applicable areas of operation for the Airline Transport Pilot Licence.

Regulation 31(1)(a)(x): Flight Engineer Course

(1) Each flight engineer training course holder shall comply with the following:

- (a) training course outline:
 - (i) format: An applicant shall prepare separate course outlines for each type of aeroplane;
 - (ii) ground course outline;

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- (iii) the Authority will accept any arrangement of subjects if all the subject material listed in Table A is included and at least the minimum programmed hours are assigned to each subject;
- (iv) if any flight engineer training course holder desires to include additional subjects in the ground course curriculum, the hours allotted to these additional subjects may not be included in the minimum programmed classroom hours;
- (v) all subjects, except theory of flight and aerodynamics and regulations, shall apply to the same type of aeroplane in which the flight engineer training course holder presents training;

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	Subject Area	Classroom Hours
Civil Aviation Regulations		10
Theory of Flight and 10 Aerodynamics		10
Aeroplane Familiarization, to include as applicable	Specifications	90
Engine Familiarization, to include as applicable	Construction features Flight controls Hydraulic systems Pneumatic systems Electrical systems Anti-icing and deicing systems, Pressurization and air-conditioning systems Vacuum systems Pilot static systems Instrument systems Fuel and oil systems Emergency equipment	45
Normal Operations (Ground and Flight) to include as appropriate	Servicing methods and procedures, Operation of all the aeroplane systems, Operation of all the engine systems Loading and centre of gravity computations Cruise control (normal, long range, maximum endurance) Power and fuel computation, Meteorology as applicable to engine operation	50
Emergency Operations to include	Landing gear, brakes, flaps, speed brakes and leading edge devices Pressurization and airconditioning Portable fire extinguishers Fuselage fire and smoke control Loss of electrical power Engine fire control Engine shut-down and restart Oxygen	80
Total (exclusive of final tests)		285

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- (b) flight course outline;
- (i) the flight training curriculum shall include at least ten (10) hours of flight instruction in an aeroplane. A student may not credit the flight time required for the practical test as part of the required flight instruction;
 - (ii) the flight engineer training course holder shall present all of the flight training in the same type aircraft;
 - (iii) as appropriate to the aircraft type, the flight engineer training course holder shall teach the following subjects in the flight training course provided in Table B hereunder:

Table B

Subject Area	
Normal Duties, Procedures and Operations	To include as appropriate— Aeroplane preflight. Engine starting, power checks, pretake-off, postlanding and shut-down procedures. Power control. Temperature control. Engine operation analysis. Operation of all systems. Fuel management. Logbook entries. Pressurization and air conditioning.
Subject Area	
Recognition and correction of In Flight Malfunctions	Analysis of abnormal engine operation. Analysis of abnormal operation of all systems. Corrective action.
Emergency Operations In Flight	Engine fire control. Fuselage fire control. Smoke control. Loss of power or pressure in each system. Engine overspeed. Fuel dumping. Landing gear, spoilers, speed brakes, and flap extension and retraction. Engine shut-down and restart. Use of oxygen.

- (iv) the Authority may allow the school to teach the flight training time in a flight simulator;
- (v) to obtain credit for flight training time in a flight simulator, the student shall occupy the flight engineer station and operate the controls.

(2) Revisions: Each flight engineer training course holder shall request revisions of the course outlines, facilities or equipment by following the procedures for original approval of the course.

(3) Ground school credits:

- (a) a flight engineer training course holder may grant credit to a student in the ground school course for comparable previous training or experience that the student can show by written evidence;
- (b) a flight engineer training course holder shall meet the quality of instruction described in this standard;
- (c) before granting credit for previous training or experience, the flight engineer training course holder shall ensure that the student passes a test given by the flight engineer training course holder on the subject for which the credit is to be given;
- (d) the flight engineer training course holder shall incorporate results of the test, the basis for credit allowance, and the hours credited as part of the student's records.

(4) Records and reports:

- (a) the flight engineer training course holder shall maintain, for at least two (2) years after a student graduates, fails, or drops from a course, a record of the student's training, including a chronological log of the subject course, attendance, examinations, and grades;
- (b) except as provided in subparagraph (c), the flight engineer training course holder shall submit to the Authority, not later than January 31 of each year, a report for the previous calendar year's training, to include—
- (i) name, enrolment and graduation date of each student;
 - (ii) ground school hours and grades of each student;
 - (iii) flight and flight simulator hours, and grades of each student; and
 - (iv) names of students failed or dropped, together with their school grades and reasons for dropping;
- (c) upon request, the Authority may waive the reporting requirements of subparagraph (b) of this paragraph for an approved flight engineer course that is part of an approved training course under the Civil Aviation Air Operator Certification and Administration Regulations.

(5) Quality of instruction:

- (a) the Authority shall revoke approval of a flight engineer training course holder's ground course whenever less than eighty percent (80%) of the students pass the Authority's knowledge test on the first attempt;

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- (b) the Authority shall revoke approval of a flight engineer training course holder's flight course whenever less than eighty percent (80%) of the students pass the Authority's practical test on the first attempt;
- (c) notwithstanding subparagraphs (a) and (b), the Authority may allow continued approval of a ground or flight course when the Authority finds—
 - (i) that the failure rate was based on less than a representative number of students; or
 - (ii) that the flight engineer training course holder has taken satisfactory means to improve the effectiveness of the training.

(6) Time limitation: Each student shall apply for the written test and the flight test within ninety (90) days after completing the ground school course.

(7) Statement of course completion:

- (a) each flight engineer training course holder shall give to each student who successfully completes an approved flight engineer ground school training course, and passes the Authority's knowledge test, a statement of successful completion of the course that indicates the date of training, the type of aeroplane on which the ground course training was based, and the number of hours received in the ground school course;
- (b) each flight engineer training course holder shall give each student who successfully completes an approved flight engineer flight course, and passed the Authority's practical test, a statement of successful completion of the flight course that indicates the dates of the training,

the type of aeroplane used in the flight course, and the number of hours received in the flight course;

- (c) a flight engineer training course holder who is approved to conduct both the ground course and the flight course may include both courses in a single statement of course completion if the provisions of subparagraphs (a) and (b) of this sub-clause are included; and
- (d) the requirements of this paragraph do not apply to a holder of an Air Operator Certificate with an approved training course under the Civil Aviation Air Operator Certification and Administration Regulations, providing the student receives a flight engineer licence upon completion of that course.

(8) Duration: Except for a course operated as part of an approved training course under the Civil Aviation Air Operator Certification and Administration Regulations, the approval to operate a flight engineer ground course or flight course terminates twenty-four (24) months after the last day of the month of issue.

Regulation 31(1)(b): Special Preparation Courses

The following curriculum meets the minimum curriculum standard for the special preparation courses that are listed in Regulation 31(1)(b):

(1) Eligibility for enrolment: Prior to enrolling in the flight portion of a special preparation course, a person shall hold a pilot licence, flight instructor rating or ground instructor licence that is appropriate for the exercise of the operating privileges or authorisations sought.

(2) General requirements:

- (a) to be approved, an applicant for a special preparation course shall present to the Authority a proposal that:

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- (i) meets the appropriate requirements of this standard;
- (ii) prepares the graduate with the necessary skills, competency, and proficiency to exercise safely the privileges of the certificate, rating, or authorisation for which the course is established;
- (iii) includes ground and flight training on the operating privileges or authorisation sought.

(3) Stage check and end-of-course tests: Each person, to graduate from a special preparation course shall satisfactorily accomplish the stage checks and end-of-course tests, consisting of the areas of operation that are appropriate to the operating privileges or authorisation sought, and for which the course applies.

(4) Agricultural aircraft operations course: A special preparation course for pilots in agricultural aircraft operations shall include at least the following:

(a) twenty-five (25) hours of training on—

- (i) agricultural aircraft operations;
- (ii) safe piloting operating practices and procedures for handling, dispensing, and disposing of agricultural and industrial chemicals, including operating in and around congested areas; and
- (iii) applicable provisions of the Act or Regulations made thereunder; and

(b) fifteen (15) hours of flight training on agricultural aircraft operations.

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(5) Rotorcraft external-load operations course: A special preparation course for pilots of external-load operations shall include at least the following:

- (a) ten (10) hours of training on—
 - (i) rotorcraft external-load operations;
 - (ii) safe piloting operating practices and procedures for external-load operations, including operating in and around congested areas; and
 - (iii) applicable provisions of the Act or Regulations made thereunder; and
- (b) fifteen (15) hours of flight training on external-load operations.

(6) Test pilot course: Each applicant for, and holder of, a special preparation course for test pilot duties shall include at least the following:

- (a) aeronautical knowledge training on—
 - (i) performing aircraft maintenance, quality assurance, and certification test-flight operations; and
 - (ii) applicable parts of these Regulations that pertain to aircraft maintenance, quality assurance, and certification tests; and
- (b) fifteen (15) hours of flight training.

(7) Special operations course:

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(a) a special preparation course for pilots in special operations that are mission-specific for certain aircraft shall include at least the following:

(i) aeronautical knowledge training on—

(A) performing that special flight operation;

(B) safe piloting operating practices and procedures for performing that special flight operation;

(C) applicable parts of these Regulations that pertain to that special flight operation; and

(D) pilot-in-command duties and responsibilities for performing that special flight operation; and

(ii) flight training on that special flight operation.

(8) Pilot refresher course: Each applicant for, and holder of, a special preparation pilot refresher course for a pilot licence, aircraft category and class rating, or an instrument rating shall include at least the following:

(a) four (4) hours of aeronautical knowledge training on—

(i) the aeronautical knowledge areas that are applicable to the level of pilot licence, category rating, class rating, or instrument rating sought;

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- (ii) safe piloting operating practices and procedures; and
 - (iii) applicable provisions of the Civil Aviation General Application and Personnel Licensing Regulations and the Civil Aviation Air Operator Certification and Administration Regulations;
- (b) six (6) hours of flight training on the areas of operation that are applicable to the level of pilot licence, aircraft category and class rating, or instrument rating, as appropriate, for performing pilot-in-command duties and responsibilities.

(9) Flight instructor refresher course: Each applicant for, and holder of, a special preparation flight instructor refresher course shall include at least a combined total of sixteen (16) hours of aeronautical knowledge training, flight training, or any combination of ground and flight training on the following:

- (a) aeronautical knowledge training on—
 - (i) the aeronautical knowledge areas that apply to student, private, and commercial pilot licences and instrument ratings;
 - (ii) the aeronautical knowledge areas that apply to flight instructor certificates;
 - (iii) safe piloting operating practises and procedures, including airport operations and operating in the Guyana airspace system; and
 - (iv) applicable provisions of the Civil Aviation General Application and Personnel Licensing Regulations and the Civil

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(b) flight training, to review –

- (i) the areas of operations applicable to student, private, and commercial pilot licences and instrument ratings; and
- (ii) the skills, competency, and proficiency for performing flight instructor duties and responsibilities.

(10) Ground instructor refresher course: A special preparation ground instructor refresher course shall include at least sixteen (16) hours of aeronautical knowledge training on –

- (a) the aeronautical knowledge areas that apply to student, private, and commercial pilots and instrument rated pilots and ground instructors;
- (b) safe piloting operating practices and procedures, including airport operations and operating in the Guyana airspace system; and
- (c) applicable provisions of the Civil Aviation General Application and Personnel Licensing Regulations and the Civil Aviation Air Operator Certification and Administration Regulations.

Regulation 31(1)(c): Pilot Ground School Course

The following curriculum meets the minimum curriculum standard for a pilot ground school course:

(1) General requirements: Each applicant for, and holder of, an approved training course for a pilot ground school shall include training on the aeronautical knowledge areas that are –

- (a) needed to safely exercise the privileges of the certificate, rating, or Authority for which the course is established; and
- (b) conducted to develop competency, proficiency, resourcefulness, self-confidence, and self-reliance in each student.

(3) Aeronautical knowledge training requirements: Each applicant for, and holder of, an approved Pilot Ground School Course shall include at least the following:

- (a) the aeronautical knowledge training that is appropriate to the aircraft rating and pilot licence level for which the course applies; and
- (b) an adequate number of total aeronautical knowledge training hours appropriate to the aircraft rating and pilot licence level for which the course applies.

(4) Stage checks and end-of-course tests: Each person, to graduate from a pilot ground school course shall satisfactorily accomplish the stage checks and end-of course tests, consisting of the areas of operation that are appropriate to the operating privileges or authorisation that graduation from the course will permit.

Regulation 36(2): Level 2 Aviation Training Organisation Instructor Training and Testing requirements

(1) Prior to initial designation, each flight and simulator flight instructor shall complete the following requirements:

- (a) complete at least eight (8) hours of ground training on the following subject matter:
 - (i) instruction methods and techniques;

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- (ii) training policies and procedures;
- (iii) the fundamental principles of the learning process;
- (iv) instructor duties, privileges, responsibilities, and limitations;
- (v) proper operation of simulation controls and systems;
- (vi) proper operation of environmental control and warning or caution panels;
- (vii) limitations of simulation;
- (viii) minimum equipment requirements for each curriculum;
- (ix) revisions to the training courses; and
- (x) cockpit resource management and crew coordination;

(b) satisfactorily complete a knowledge test—

- (i) on the subjects specified in subparagraph (a); and
- (ii) that is accepted by the Authority as being of equivalent difficulty, complexity, and scope as the tests provided by the Authority for the flight instructor aeroplane and instrument flight instructor knowledge tests.

(2) Each certificate holder shall ensure that each instructor who instructs in a flight simulator that the Authority has approved for all

training and all testing for the airline transport pilot licensing test, aircraft type rating test, or both, has met at least one (1) of the following requirements:

- (a) each instructor shall have performed two (2) hours in flight, including three (3) take-offs and three (3) landings as the sole manipulator of the controls of an aircraft of the same category and class, and, if a type rating is required, of the same type replicated by the approved flight simulator in which that instructor is designated to instruct;
- (b) each instructor shall have participated in an approved line observation programme as specified in the Civil Aviation Operations Regulations and that—
 - (i) was accomplished in the same aeroplane type as the aeroplane represented by the flight simulator in which that instructor is designated to instruct; and
 - (ii) included line-oriented flight training of at least one (1) hour of flight during which the instructor was the sole manipulator of the controls in a flight simulator that replicated the same type aircraft for which that instructor is designated to instruct.

Regulation 39(2): Approved Training Organisation with Level 1 Flight Training Specification Chief Flight Instructor Qualification

(1) Each Approved Training Organisation shall designate a supervisory instructor for a flight training course who shall meet one (1) or more of the following requirements, as applicable:

- (a) hold a commercial pilot licence or an airline transport pilot licence, and, except for a chief instructor for a training course solely for a lighter-than-air rating, a

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current flight instructor with appropriate aircraft category, class, and instrument ratings for the category and class of aircraft used in the course;

- (b) meet the pilot-in-command recent flight experience requirements of the Civil Aviation Operations Regulations, as applicable;
- (c) pass a knowledge test on—
 - (i) teaching methods;
 - (ii) applicable provisions of the Guyana-provided aeronautical information publications;
 - (iii) applicable provisions of the Civil Aviation General Application and Personnel Licensing, Regulations, the Civil Aviation Operations Regulations and the Civil Aviation Approved Training Organisation Regulations; and
 - (iv) the objectives and approved course completion standards of the course for which the person seeks to obtain designation; and
- (d) pass a proficiency test on instructional skills and ability to train students on the flight procedures and manoeuvres appropriate to the course.

(2) Except for a training course for gliders, balloons, or airships, the chief instructor shall meet the applicable requirements in paragraphs (3), (4), and (5).

(3) For a training course for a private pilot licence or rating, a chief instructor shall have—

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- (a) at least one thousand (1,000) hours as pilot-in-command; and
- (b) primary flight training experience as a flight instructor or an instructor in a military pilot flight training programme, or a combination thereof, consisting of at least two (2) years and a total of five hundred (500) flight hours.

(4) For a training course for an instrument rating or a rating with instrument privileges, a chief instructor shall have—

- (a) at least one hundred (100) hours of flight time under actual or simulated instrument conditions;
- (b) at least one thousand (1,000) hours as pilot-in-command; and
- (c) instrument flight instructor experience or an instructor in a military pilot flight training programme, or a combination thereof, consisting of at least—
 - (i) two (2) years and a total of two hundred and fifty (250) flight hours; or
 - (ii) four hundred (400) flight hours of instrument flight instruction.

(5) For a training course for other than a private pilot licence or rating, or an instrument rating or a rating with instrument privileges, a chief instructor shall have—

- (a) at least two thousand (2,000) hours as pilot-in-command; and
- (b) flight training experience as a flight instructor or an instructor in a military pilot flight training programme,

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or a combination thereof, consisting of at least three (3) years and a total of one thousand (1,000) flight hours.

(6) A chief instructor for a training course for gliders or balloons is required to have only forty per cent (40%) of the hours required in paragraphs (3) and (5).

(7) A chief instructor for a training course for airships is required to have only forty per cent (40%) of the hours required in paragraphs (3), (4), and (5).

(8) To be eligible as chief instructor for a ground school course, a person shall have one (1) year of experience as a ground school instructor at a certified Level 1 approved training organisation.

Regulation 40(2): Approved Training Organisation with Level 1 Flight Training Specification—Assistant Chief Flight Instructor Qualification

(1) To be eligible for designation as an assistant chief instructor, a person shall meet the following requirements:

- (a) hold a Commercial Pilot Licence or an Airline Transport Pilot Licence and, except for the assistant chief instructor for a training course for a lighter-than-air rating, a current flight instructor licence with appropriate aircraft category, class, and instrument ratings for the category and class of aircraft used in the course;
- (b) meet the pilot-in-command recent flight experience requirements of the Civil Aviation Operations Regulations, as applicable;
- (c) pass a knowledge test on—
 - (i) teaching methods;

- (ii) applicable provisions of the Guyana-provided aeronautical information publications;
 - (iii) applicable provisions of Civil Aviation General Application and Personnel Licensing Regulations, the Civil Aviation Operations Regulations and the Civil Aviation (Aviation Training Organisation) Regulations; and
 - (iv) the objectives and approved course completion standards of the course for which the person seeks to obtain designation;
- (d) pass a proficiency test on the flight procedures and manoeuvres appropriate to that course;
- (e) meet the applicable requirements in paragraphs (2), (3), and (4), except that an assistant chief instructor for a training course for gliders, balloons, or airships is required to have only forty percent (40%) of the hours required in paragraphs (2) and (3).
- (2) For a training course for a private pilot licence or rating, an assistant chief instructor shall have—
- (a) at least five hundred (500) hours as pilot-in-command; and
 - (b) flight training experience as a flight instructor or an instructor in a military pilot flight training programme, or a combination thereof, consisting of at least one (1) year and a total of two hundred and fifty (250) flight hours.

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(3) For a training course for an instrument rating or a rating with instrument privileges, an assistant chief flight instructor shall have—

- (a) at least fifty (50) hours of flight time under actual or simulated instrument conditions;
- (b) at least five hundred (500) hours as pilot-in-command; and
- (c) instrument flight instructor experience as a flight instructor or an instructor in a military pilot flight training programme, or a combination thereof, consisting of at least one (1) year and a total of one hundred and twenty-five (125) flight hours.

(4) For a training course other than for a private pilot licence or rating, or an instrument rating or a rating with instrument privileges, an assistant chief instructor shall have—

- (a) at least one thousand (1,000) hours as pilot-in-command; and
- (b) flight training experience as a flight instructor or an instructor in a military pilot flight training programme, or a combination thereof, consisting of at least 1½ years and a total of five hundred (500) flight hours.

(5) To be eligible for designation as an assistant chief instructor for a ground school course, a person shall have six (6) months of experience as a ground school instructor at a certified Level 1 approved training organisation.

Regulation 41(2) Approved Training Organisation with Level 1 Flight Training Specification— Check Instructor Qualifications

(1) To be designated as a check instructor for conducting student stage checks, end of course tests, and instructor proficiency checks under this Part, a person shall, meet the following requirements, as applicable:

- (a) pass a test, given by the chief instructor, on:
- (i) teaching methods;
 - (ii) applicable provisions of the Guyana-provided aeronautical information publications;
 - (iii) applicable provisions of the Civil Aviation General Application and Personnel Licensing Regulations, the Civil Aviation Operations Regulations and the Civil Aviation Approved Training Organisation Regulations; and
 - (iv) the objectives and course completion standards of the approved training course for the designation sought;
- (b) for flight checks and tests—
- (i) meet the requirements in paragraph (1)(a);
 - (ii) hold a commercial pilot licence or an airline transport pilot licence and, except for a check instructor for a training course for a lighter-than-air rating, a current flight instructor licence, with appropriate aircraft category, class, and instrument ratings for the category and class of aircraft used in the course;
 - (iii) meet the pilot-in-command recent flight experience requirements of the Civil Aviation Operations Regulations, as applicable; and

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- (iv) pass a proficiency test, given by the chief instructor or assistant chief instructor, on the flight procedures and manoeuvres of the approved training course;

(c) for checks and tests that relate to ground training—

- (i) meet the requirements in paragraph (1)(a);
- (ii) except for a training course for a lighter-than-air rating, hold a current flight instructor licence or ground instructor licence with ratings appropriate to the category and class of aircraft used in the course; and
- (iii) for a training course for a lighter-than-air rating, hold a commercial pilot licence with a lighter-than-air category rating and the appropriate class rating.

(2) Before functioning as a check instructor, a person who meets the eligibility requirements in paragraph (a) shall—

- (a) be designated in writing by the chief instructor to conduct student stage checks, end-of-course tests, and instructor proficiency checks; and
- (b) be approved by the Authority.

(3) A check instructor may not conduct a stage check or an end-of-course test of any student for whom the check instructor has—

- (a) served as the principal instructor; or
- (b) recommended for a stage check or end-of-course test.

Regulation 45(2) Transfer Privileges

(1) An approved training organisation with Level 1 Flight Training Specifications receiving a student from another Level 1 Approved Training Organisation may credit that pilot's previous experience towards the curriculum requirements of a course subject to the following conditions:

- (a) if the credit is based upon Regulation 45 or Regulation 56, the receiving Approved Training Organisation may credit that student not more than fifty percent (50%) of the curriculum requirements;
- (b) if the credit is not based upon Regulation 45 or Regulation 56, the receiving Approved Training Organisation may credit that student not more than twenty-five percent (25%) of the curriculum requirements.

Note: The receiving Approved Training Organisation shall determine the amount of course credit to be credited under subparagraph (a) or subparagraph (b), based on a proficiency test or knowledge test, or both, of the student.

(2) The receiving Approved Training Organisation may grant credit for training specified in paragraph (1)(a) or paragraph (1)(b) only if the previous provider of the training has certified the kind and amount of training provided, and the result of each stage check and end-of-course test, if applicable, given to the student.

(3) An aircraft maintenance engineer (AME) training course holder may evaluate and grant credit for an entrant's previous training provided –

- (a) the aircraft maintenance engineer training course holder determines that the training is verifiable and comparable to portions of the training programme; and
- (b) the individual requesting credit, passes an examination given by the aircraft maintenance engineer training

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course holder, which is equivalent to those examinations given by the AME training course holder for the same subject in the training programme.

Regulation 48 Training Course: Contents

(1) Each applicant for, and holder of, an approved training organisation certificate with Level 1 Flight Training Specifications shall ensure that each training course contains –

- (a) a description of each flight simulator or flight training device used for training;
- (b) a listing of the airports at which training flights originate and a description of the facilities, including pilot briefing areas that are available for use by the school's students and personnel at each of those airports;
- (c) a description of the type of aircraft including any special equipment used for each phase of training;
- (d) the minimum qualifications and ratings for each instructor assigned to ground or flight training; and
- (e) a training syllabus that includes—
 - (i) the prerequisites for enrolling in the ground and flight portion of the course that include the pilot licence and rating (if required by this part), training, pilot experience, and pilot knowledge;
 - (ii) a detailed description of each lesson, including the lesson's objectives, standards, and planned time for completion;
 - (iii) course learning objectives;

- (iv) stage learning objectives and standards;
and
- (v) a description of the checks and tests to be
used to measure learning after each stage
of training.

(2) An approved training organisation with Level 2 specifications
may—

- (a) include training in a flight simulator or flight training
device, provided it is representative of the aircraft for
which the course is approved, meets the requirements
of this paragraph, and the training is given by an
authorised instructor; and
- (b) permit a student to credit training in a flight simulator
that meets the requirements of Regulation 30 for a
maximum of twenty-five percent (25%) of the total
flight training hour requirements of the approved
course.

Regulation 53(2)(b), (4) and (5)

1. The following Implementing Standards identify the subject
matter, the time in which each topic and the level to which the topics are to
be covered:

*Level 1—denotes a basic understanding of a subject. Trainees should have a
basic understanding of the subject but are not expected to be able to
apply it in practice;*

*Level 2—denotes understanding of the subject and the ability, where
applicable, to apply it in practice with the help of reference materials
and instructions; and*

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Level 3—denotes a thorough understanding of the subject and the ability to apply it with speed, accuracy and judgement appropriate to the circumstances

(a) Knowledge training areas for the Aircraft Maintenance Engineer Licence categories:

(i) A—Airframe, Fixed wing:

Civil Aviation Requirements, Laws and Regulations

		<i>Hours</i>	<i>Level</i>
1	International and State aviation law	10	3
2	Airworthiness requirements	10	3
3	Civil aviation operating regulations	10	3
4	Air transport operations	10	3
5	Organisation and management of the operator	10	3
6	Operator economics related to maintenance	10	3
7	Approved Maintenance Organisations (AMOs)	30	3
8	Aircraft maintenance licence requirements	10	3
9	The role of the State aviation regulatory body	10	3
10	Aircraft certification, documents and maintenance	10	3

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		<i>Hours</i>	<i>Level</i>
1	Mathematics	75	1
2	Physics	70	1
3	Technical Drawing	70	1
4	Chemistry	30	1
5	Fixed wing aerodynamics and flight control	100	2

Aircraft Engineering and Maintenance: Airframe

		<i>Hours</i>	<i>Level</i>
1	Maintenance practices and materials: Airframe/Power Plant	200	3
2	Aircraft systems and structures: Fixed wing	250	3
3	Airship systems and structures	100	3

Human performance and limitations – Required Knowledge, Skills and Attitudes

		<i>Hours</i>	<i>Level</i>
1	General programme overview	3	3
2	Human Factors knowledge	3	3
3	Communication Skills	3	3
4	Teamwork Skills	3	3
5	Performance Management	3	3
6	Situation Awareness	3	3
7	Human Error	3	3
8	Reporting and Investigating Errors	3	3
9	Monitoring and Auditing	3	3
10	Document Design	3	3

(ii) A – Airframe, Rotary wing:

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Civil Aviation Requirements, Laws and Regulations

		<i>Hours</i>	<i>Level</i>
1	International and State aviation law	10	3
2	Airworthiness requirements	10	3
3	Civil aviation operating regulations	10	3
4	Air transport operations	10	3
5	Organisation and management of the operator	10	3
6	Operator economics related to maintenance	10	3
7	Approved Maintenance Organisations (AMOs)	30	3
8	Aircraft maintenance licence requirements	10	3
9	The role of the State aviation regulatory body	10	3
10	Aircraft certification, documents and maintenance	10	3

Natural Science and General Principles of Aircraft

		<i>Hours</i>	<i>Level</i>
1	Mathematics	75	1
2	Physics	70	1
3	Technical Drawing	70	1
4	Chemistry	30	1
5	Rotary wing aerodynamics and flight control	100	2

Human Performance and Limitations – Required Knowledge, Skills and Attitudes

		<i>Hours</i>	<i>Level</i>
1	General programme overview	3	3
2	Human Factors knowledge	3	3
3	Communication Skills	3	3
4	Teamwork Skills	3	3

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5	Performance Management	3	3
6	Situation Awareness	3	3
7	Human Error	3	3
8	Reporting and Investigating Errors	3	3
9	Monitoring and Auditing	3	3
10	Document Design	3	3

(iii) C – Engine, Piston:

Civil Aviation Requirements, Laws and Regulations

		<i>Hours</i>	<i>Level</i>
1	International and State aviation law	10	3
2	Airworthiness requirements	10	3
3	Civil aviation operating regulations	10	3
4	Air transport operations	10	3
5	Organisation and management of the operator	10	3
6	Operator economics related to maintenance	10	3
7	Approved Maintenance Organisations (AMOs)	30	3
8	Aircraft maintenance licence requirements	10	3
9	The role of the State aviation regulatory body	10	3
10	Aircraft certification, documents and maintenance	10	3

Natural Science and General Principles of Aircraft

		<i>Hours</i>	<i>Level</i>
1	Mathematics	75	1
2	Physics	70	1
3	Technical Drawing	70	1
4	Chemistry	30	1

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Aircraft Engineering and Maintenance: Engines/Power Plants

		<i>Hours</i>	<i>Level</i>
1	Piston engines	250	3
2	Propellers	100	3
3	Fuel systems	100	3

Human Performance and Limitations – Required Knowledge, Skills and Attitudes

		<i>Hours</i>	<i>Level</i>
1	General programme overview	3	3
2	Human Factors knowledge	3	3
3	Communication Skills	3	3
4	Teamwork Skills	3	3
5	Performance Management	3	3
6	Situation Awareness	3	3
7	Human Error	3	3
8	Reporting and Investigating Errors	3	3
9	Monitoring and Auditing	3	3
10	Document Design	3	3

(iv) C – Engine, Turbo-jet, Turbo-shaft and Turbo-propeller:

Civil Aviation Requirements, Laws and Regulations

		<i>Hours</i>	<i>Level</i>
1	International and State aviation law	10	3
2	Airworthiness requirements	10	3
3	Civil aviation operating regulations	10	3
4	Air transport operations	10	3
5	Organisation and management of the operator	10	3
6	Operator economics related to maintenance	10	3
7	Approved Maintenance Organisations (AMOs)	30	3
8	Aircraft maintenance licence requirements	10	3

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9	The role of the State aviation regulatory body	10	3
10	Aircraft certification, documents and maintenance	10	3

Natural Science and General Principles of Aircraft

		<i>Hours</i>	<i>Level</i>
1	Mathematics	75	1
2	Physics	70	1
3	Technical Drawing	70	1
4	Chemistry	30	1

(iv) C—Engine, Turbo-jet, Turbo-shaft and Turbo-propeller—
Continued

Aircraft Engineering and Maintenance: Engines/Power Plants

		<i>Hours</i>	<i>Level</i>
1	Propellers	100	3
2	Gas Turbine Engines	300	3
3	Fuel systems	100	3

Human Performance and Limitations—Required Knowledge, Skills and Attitudes

		<i>Hours</i>	<i>Level</i>
1	General programme overview	3	3
2	Human Factors knowledge	3	3
3	Communication Skills	3	3
4	Teamwork Skills	3	3
5	Performance Management	3	3

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6	Situation Awareness	3	3
7	Human Error	3	3
8	Reporting and Investigating Errors	3	3
9	Monitoring and Auditing	3	3
10	Document Design	3	3

(v) E—Avionics Systems, Electrical, Instruments and Radio Systems:

Civil Aviation Requirements, Laws and Regulations

		<i>Hours</i>	<i>Level</i>
1	International and State aviation law	10	3
2	Airworthiness requirements	10	3
3	Civil aviation operating regulations	10	3
4	Air transport operations	10	3
5	Organisation and management of the operator	10	3
6	Operator economics related to maintenance	10	3
7	Approved Maintenance Organisations (AMOs)	30	3
8	Aircraft maintenance licence requirements	10	3
9	The role of the State aviation regulatory body	10	3
10	Aircraft certification, documents and maintenance	10	3

Natural Science and General Principles of Aircraft

		<i>Hours</i>	<i>Level</i>
1	Mathematics	75	1
2	Physics	70	1
3	Technical Drawing	70	1
4	Chemistry	30	1

Aircraft Engineering and Maintenance: Avionics/Electrical and Instrument

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		<i>Hours</i>	<i>Level</i>
1	Maintenance practices and materials: Airframe/Power Plant	200	3
2	Electrical and Electronic Fundamentals	450	2
3	Digital Techniques, Computers and Associated Devices	200	2
4	Aircraft Electrical Systems	250	3
5	Aircraft Instrument Systems	250	3

(v) E—Avionics Systems, Electrical, Instruments and Radio Systems—*Continued*

Aircraft Engineering and Maintenance: Avionics – Navigation/Radio

		<i>Hours</i>	<i>Level</i>
1	Aircraft Inertial Navigation Systems (INS)	60	3
2	Aircraft Radio and Radio Navigation Systems	450	3

Human Performance and Limitations—Required Knowledge, Skills and Attitudes

		<i>Hours</i>	<i>Level</i>
1	General programme overview	3	3
2	Human Factors knowledge	3	3
3	Communication Skills	3	3
4	Teamwork Skills	3	3
5	Performance Management	3	3
6	Situation Awareness	3	3
7	Human Error	3	3
8	Reporting and Investigating Errors	3	3
9	Monitoring and Auditing	3	3
10	Document Design	3	3

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- (vi) E2—Avionics Systems, Electrical, Instruments, Auto-Flight, Flight Management and Radio Systems:

Civil Aviation Requirements, Laws and Regulations

		<i>Hours</i>	<i>Level</i>
1	International and State aviation law	10	3
2	Airworthiness requirements	10	3
3	Civil aviation operating regulations	10	3
4	Air transport operations	10	3
5	Organisation and management of the operator	10	3
6	Operator economics related to maintenance	10	3
7	Approved Maintenance Organisations (AMOs)	30	3
8	Aircraft maintenance licence requirements	10	3
9	The role of the State aviation regulatory body	10	3
10	Aircraft certification, documents and maintenance	10	3

Natural Science and General Principles of Aircraft

		<i>Hours</i>	<i>Level</i>
1	Mathematics	75	1
2	Physics	70	1
3	Technical Drawing	70	1
4	Chemistry	30	1

Aircraft Engineering and Maintenance: Avionics/Electrical and Instrument

		<i>Hours</i>	<i>Level</i>
1	Maintenance practices and materials	200	3
2	Electrical and Electronic Fundamentals	450	2

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3	Digital Techniques, Computers and Associated Devices	200	2
4	Aircraft Electrical Systems	250	3
5	Aircraft Instrument Systems	250	3

**Aircraft Engineering and Maintenance: Avionics –
AFCS/Navigation/Radio**

		<i>Hours</i>	<i>Level</i>
1	Automatic Flight Control Systems (AFCS): Fixed Wing	200	3
2	Automatic Flight Control Systems (AFCS): Rotary Wing	75	3
3	Aircraft Inertial Navigation Systems (INS)	60	3
4	Aircraft Radio and Radio Navigation Systems	450	3

(vi) E2—Avionics Systems, Electrical, Instruments, Auto-Flight, Flight Management and Radio Systems:— *Continued*

**Human Performance and Limitations—Required
Knowledge, Skills and Attitudes**

		<i>Hours</i>	<i>Level</i>
1	General programme overview	3	3
2	Human Factors knowledge	3	3
3	Communication Skills	3	3
4	Teamwork Skills	3	3
5	Performance Management	3	3
6	Situation Awareness	3	3
7	Human Error	3	3
8	Reporting and Investigating Errors	3	3

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9	Monitoring and Auditing	3	3
10	Document Design	3	3

(b) Skills training areas for the Aircraft Maintenance Engineer Licence categories:

(i) A—Airframe, Fixed Wing and Rotary Wing:

Practical Maintenance Skills—Airframe

		<i>Hours</i>	<i>Level</i>
1	Basic Workshop and Maintenance Practices – Airframe	725	3
2	Basic Workshop and Maintenance Practices – Repair, Maintenance and Function Testing of Aircraft Systems and Components	1000	3
3	Job and Task Documentation and Control Practices	100	3

(ii) C—Engine, Piston and Turbo-jet, Turbo-prop and Turbo-Shaft:

Practical Maintenance Skills—Engine and Propeller

		<i>Hours</i>	<i>Level</i>
1	Basic Workshop and Maintenance Practices – Engine and Propeller	450	3
2	Basic Workshop and Maintenance Practices – Engine, Propeller Systems, Component and Function Testing	450	3
3	Job and Task Documentation and Control Practices	100	3

(iii) E1 – Avionics Systems:

Practical Maintenance Skills – Electrical, Instruments and Radio

		<i>Hours</i>	<i>Level</i>
1	Basic Workshop and Maintenance Practices – Avionics Electrical	775	3
2	Basic Workshop and Maintenance Practices – Avionics Instruments	1000	3
3	Basic Workshop and Maintenance Practices – Avionics Radio	875	3
4	Repair, Maintenance and Function Testing of Aircraft Avionics Systems and Components	100	3
5	Job and Task Documentation and Control Practices	100	3

(iv) E2 – Avionics Systems:

Practical Maintenance Skills – Electrical, Instruments, Auto-Flight and Radio

		<i>Hours</i>	<i>Level</i>
1	Basic Workshop and Maintenance Practices – Avionics Electrical	775	3
2	Basic Workshop and Maintenance Practices – Avionics Instruments	1000	3
3	Basic Workshop and Maintenance Practices – Avionics Auto Flight	225	3

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4	Basic Workshop and Maintenance Practices – Avionics Radio	875	3
5	Repair, Maintenance and Function Testing of Aircraft Avionics Systems and Components	100	3
6	Job and Task Documentation and Control Practices	100	3

- (c) Training for a type rating shall be in accordance with the manufacturer's type rating course.

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