

PART IV

FLIGHT ENGINEER CERTIFICATE

98. This Part prescribes the requirements for the issue of a Flight Engineer Licence and rating. Applicability

General Requirements for Flight Engineer Licence

99. A person wishing to apply for a Flight Engineer Licence, shall— General requirements of Flight Engineer Licence and rating

- (a) apply to the Authority in the prescribed form;
- (b) pay the prescribed fee;
- (c) be at least eighteen years of age;
- (d) except as provided in regulation 189, be able to read, speak, write, and understand the English Language;
- (e) hold a Class 2 medical certificate issued under Part VIII; and
- (f) comply with the requirements of this Part that apply to the rating sought.

Flight Engineer Knowledge Requirements

100. (1) An applicant for a Flight Engineer Licence under regulation 99 shall pass an aeronautical knowledge test on the subjects listed in Schedule 9. Flight Engineer Licence knowledge requirements Schedule 9

(2) Before taking the aeronautical knowledge test required under subregulation (1), an applicant for a Flight Engineer Licence shall present satisfactory evidence of having completed one of the aeronautical experience requirements of regulation 101.

(3) An applicant for a Flight Engineer Licence or rating shall have passed the knowledge test required under subregulation (1) within twenty-four months of the skill test required under regulation 102.

(4) Notwithstanding subregulation (3), an applicant who within twenty-four months of passing the knowledge test, is employed as a flight crew member or mechanic by a national air operator, need not comply with the time limit prescribed under subregulation (3), where he is employed—

- (a) by such national air operator at the time of the skill test check; and
- (b) as a flight crew member and has completed initial training and where appropriate, transition, upgrade and recurrent training.

Aeronautical Experience Requirements for Flight Engineer

Flight
Engineer
Licence
aeronautical
experience
requirements

101.(1) An applicant for a Flight Engineer Licence under regulation 99, shall obtain and log the flight time used to satisfy the aeronautical experience requirements of subregulation (2) on an aeroplane on which a Flight Engineer is required by the Act or Regulations made thereunder.

(2) In addition to the skill and experience requirements, an applicant for a Flight Engineer Licence with a Type Rating shall present, for the class rating sought, satisfactory evidence of having one of the following:

- (a) at least three years of skill and experience in aircraft and aircraft engine maintenance and at least five hours of flight training in the duties of a Flight Engineer;
- (b) graduation from a specialized aeronautical training course in maintaining aircraft and aircraft engines for a period of at least two years and at least five hours of flight training in the duties of a Flight Engineer;
- (c) a degree in aeronautical, electrical, or mechanical engineering from a recognized college, university, or engineering school, at least six months of skill experience in maintaining aircraft and at least five hours of flight training in the duties of a Flight Engineer;
- (d) a Commercial Pilot Licence with an Instrument Rating and at least five hours of flight training in the duties of a Flight Engineer;
- (e) at least two hundred hours of flight time in a transport category aeroplane as pilot in command or co-pilot performing the functions of a pilot in command under the supervision of a pilot in command;
- (f) at least one hundred hours of flight time as a Flight Engineer; or
- (g) successful completion, within the ninety-day period before application, of an approved Flight Engineer ground and flight course of instruction.

(3) The Director General shall determine whether experience as a flight engineer in a flight simulator, approved by the Authority, is acceptable as part of the total flight time of one hundred hours and credit for such experience shall be limited to a maximum of fifty hours.

(4) The applicant shall have operational experience in the performance of the duties of a Flight Engineer, under the supervision of a Flight Instructor or Flight Engineer approved by the Authority for that purpose, in at least the following areas:

- (a) pre-flight inspections;

- (b) fuelling procedures, fuel management;
- (c) inspection of maintenance documents;
- (d) normal flight deck procedures during all phases of flight;
- (e) crew co-ordination and procedures in case of crew incapacitation;
- (f) defect reporting;
- (g) recognition of abnormal functioning of aircraft systems;
- (h) use of abnormal and alternate or standby procedures;
- (i) recognition of emergency conditions; or
- (j) use of appropriate emergency procedures.

Skill Requirements of Flight Engineer

102. (1) The applicant for a Flight Engineer Licence shall have demonstrated the ability to—

Flight
Engineer
Licence skill
Requirements

- (a) perform as flight engineer of an aircraft;
- (b) perform the duties and procedures prescribed in regulation 101(4) with a degree of competency appropriate to the privileges granted to the holder of a flight engineer licence;
- (c) recognize and manage threats and errors;
- (d) use aircraft systems within the aircraft's capabilities and limitations;
- (e) exercise good judgment and airmanship;
- (f) apply aeronautical knowledge;
- (g) perform all the duties as part of an integrated crew with the successful outcome assured; and
- (h) communicate effectively with the other flight crew members.

(2) The Director General may recommend the Authority approve the use of a flight simulation training device for performing any of the procedures required during the demonstration of skill required by this regulation, where the flight simulation training device is appropriate to the task.

Issue of Flight Engineer Licence

Issue of
Flight
Engineer
Licence

103. Where the Director General is satisfied that an applicant for a Flight Engineer Licence meets the requirements of regulations 98 through 102, he may recommend that the Authority issue a Flight Engineer Licence to the applicant.

Conversion of Flight Engineer Licence issued by another Contracting State

Flight
Engineer
Licence
issued
on the basis
of a Flight
Engineer
Licence
issued in
another
Contracting
State

104.(1) The Director General may recommend that the Authority issue a Flight Engineer Licence on the basis of a Flight Engineer Licence issued by another Contracting State.

(2) A Flight Engineer Licence issued in accordance with this regulation expires at the end of the twenty-fourth month after the month in which the licence was issued or renewed.

(3) The Director General may recommend that the Authority add to a licence issued in accordance with these Regulations, those aircraft class ratings listed on the Flight Engineer Licence of the applicant, in addition to any ratings issued after testing under the provisions of these Regulations.

(4) A Flight Engineer may apply for renewal of his Flight Engineer Licence issued under regulation 103, and the Director General may recommend that the Authority renew that licence and the ratings placed thereon where, at the time of application for renewal, the foreign Flight Engineer Licence on which that licence is based, is in effect.

(5) Notwithstanding subregulation (4) an application for renewal of a Flight Engineer Licence shall be submitted before expiration of the current licence or authorization issued under this regulation.

(6) Where on the basis of a Flight Engineer Licence issued by another Contracting State a Flight Engineer is issued a Flight Engineer Licence under this regulation, he may perform the duties of a Flight Engineer of a Trinidad and Tobago aircraft, within and outside Trinidad and Tobago, subject to the limitations of this Part and any additional limitations placed on the licence by the Authority.

Flight Engineer Requirements for an Additional Aircraft Rating

Flight
Engineer
Licence
requirements
for additional
aircraft rating

105. (1) An applicant under regulation 99 may have another aircraft class rating added to his Flight Engineer Licence, where he—

- (a) passes the knowledge test in the areas set out in regulation 100(1) and skill test that is appropriate to the class of aeroplane for which an additional rating is sought; or

(b) satisfactorily completes an approved Flight Engineer training programme that is appropriate to the additional class rating sought.

(2) An applicant may take the knowledge tests before acquiring the flight training required by subregulation (1).

(3) A national air operator may, when authorized by the Authority, provide as part of an approved training programme, a knowledge test that he may administer to satisfy the test required for an additional rating under subregulation (1).

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