

## Federal Aviation Administration, DOT

## § 63.35

within 7 days after the date it terminates.

(g) *Renewal.* The certificate holder may have the certificate renewed by complying with the requirements of paragraph (b) of this section at the time of application for renewal.

(Secs. 313(a), 601, and 602, Federal Aviation Act of 1958; as amended (49 U.S.C. 1354(a), 1421, and 1422); sec. 6(c), Department of Transportation Act (49 U.S.C. 1655(c)))

[Doc. No. 19300, 45 FR 5672, Jan. 24, 1980]

### Subpart B—Flight Engineers

AUTHORITY: Secs. 313(a), 601, and 602, Federal Aviation Act of 1958; 49 U.S.C. 1354, 1421, 1422.

SOURCE: Docket No. 6458, 30 FR 14559, Nov. 23, 1965, unless otherwise noted.

#### § 63.31 Eligibility requirements; general.

To be eligible for a flight engineer certificate, a person must—

- (a) Be at least 21 years of age;
- (b) Be able to read, speak, and understand the English language, or have an appropriate limitation placed on his flight engineer certificate;
- (c) Hold at least a second-class medical certificate issued under part 67 of this chapter within the 12 months before the date he applies, or other evidence of medical qualification accepted for the issue of a flight engineer certificate under § 63.42; and
- (d) Comply with the requirements of this subpart that apply to the rating he seeks.

(Sec. 6, 80 Stat. 937, 49 U.S.C. 1655)

[Doc. No. 6458, 30 FR 14559, Nov. 23, 1965, as amended by Amdt. 63-9, 33 FR 18614, Dec. 17, 1968]

#### § 63.33 Aircraft ratings.

(a) The aircraft class ratings to be placed on flight engineer certificates are—

- (1) Reciprocating engine powered;
  - (2) Turbopropeller powered; and
  - (3) Turbojet powered.
- (b) To be eligible for an additional aircraft class rating after his flight engineer certificate with a class rating is issued to him, an applicant must pass the written test that is appropriate to

the class of airplane for which an additional rating is sought, and—

- (1) Pass the flight test for that class of aircraft; or
- (2) Satisfactorily complete an approved flight engineer training program that is appropriate to the additional class rating sought.

#### § 63.35 Knowledge requirements.

(a) An applicant for a flight engineer certificate must pass a written test on the following:

(1) The regulations of this chapter that apply to the duties of a flight engineer.

(2) The theory of flight and aerodynamics.

(3) Basic meteorology with respect to engine operations.

(4) Center of gravity computations.

(b) An applicant for the original or additional issue of a flight engineer class rating must pass a written test for that airplane class on the following:

- (1) Preflight.
- (2) Airplane equipment.
- (3) Airplane systems.
- (4) Airplane loading.
- (5) Airplane procedures and engine operations with respect to limitations.
- (6) Normal operating procedures.
- (7) Emergency procedures.
- (8) Mathematical computation of engine operations and fuel consumption.

(c) Before taking the written tests prescribed in paragraphs (a) and (b) of this section, an applicant for a flight engineer certificate must present satisfactory evidence of having completed one of the experience requirements of § 63.37. However, he may take the written tests before acquiring the flight training required by § 63.37.

(d) An applicant for a flight engineer certificate or rating must have passed the written tests required by paragraphs (a) and (b) of this section since the beginning of the 24th calendar month before the month in which the flight is taken. However, this limitation does not apply to an applicant for a flight engineer certificate or rating if—

- (1) The applicant—
  - (i) Within the period ending 24 calendar months after the month in which the applicant passed the written test, is employed as a flight crewmember or