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No. S 570

AIR NAVIGATION ACT
(CHAPTER 6)

AIR NAVIGATION
(AMENDMENT NO. 2)
ORDER 2011

In exercise of the powers conferred by section 3 of the Air Navigation Act, the Minister for Transport hereby makes the following Order:

Citation and commencement

1. This Order may be cited as the Air Navigation (Amendment No. 2) Order 2011 and shall come into operation on 4th October 2011.

Amendment of paragraph 2

2. Paragraph 2 of the Air Navigation Order (O 2) (referred to in this Order as the principal Order) is amended —

(a) by inserting, immediately after the definition of “evaluating medical examiner”, the following definition:

““fireproof material” means a material capable of withstanding heat as well as or better than steel when the dimensions in both cases are appropriate for the specific purpose;”;

(b) by inserting, immediately after the definition of “glider”, the following definition:

““gyroplane” means a heavier-than-air aircraft supported in flight by the reactions of the air on one or more rotors which rotate freely on substantially vertical axes;”;

(c) by inserting, immediately after the definition of “lifejacket”, the following definition:

““lighter-than-air aircraft” means any aircraft supported chiefly by its buoyancy in the air;” and

(d) by inserting, immediately after the definition of “RNP type”, the following definition:

““rotorcraft” means a power-driven heavier-than-air aircraft supported in flight by the reactions of the air on one or more rotors;”.

Amendment of paragraph 18

3. Paragraph 18 of the principal Order is amended by deleting the words “Subject to” in sub-paragraph (3A) and substituting the words “Notwithstanding sub-paragraph (3) but subject to”.

Amendment of paragraph 20

4. Paragraph 20 of the principal Order is amended —

(a) by inserting, immediately after sub-paragraph (i) of sub-paragraph (1), the following sub-paragraph:

“(ia) Multi-crew Pilot’s Licence (Aeroplanes);”;

(b) by deleting the words “A licence of the class referred to in (a) to (k) shall not be renewed or granted to any person who has attained the age of 65 years.” in sub-paragraph (1);

(c) by inserting, immediately after sub-paragraph (1), the following sub-paragraph:

“(1A) A licence of the class referred to in sub-paragraph (1)(a) and (e) to (k) shall not be granted or renewed to any person who has attained the age of 65 years.”;

(d) by deleting sub-paragraph (10) and substituting the following sub-paragraph:

“(10) Nothing in this Order shall be taken to prohibit the holder of:

(a) a Commercial Pilot’s Licence (Aeroplanes) or an Airline Transport Pilot’s Licence (Aeroplanes) from acting as pilot-in-command of an aeroplane carrying passengers by night by reason of the lack of a night rating in his licence; or

(b) a Multi-crew Pilot’s Licence (Aeroplanes) from acting as pilot-in-command of a single-crew aeroplane carrying passengers by night by reason of the lack of a night rating in his licence

provided that such licence entitles him to act as a pilot-in-command of a single-crew aeroplane.”; and

- (e) by inserting, immediately after the words “and any person” in sub-paragraph (14), the words “authorised under sub-paragraph (13)(b) or”.

Amendment of paragraph 20A

5. Paragraph 20A of the principal Order is amended by inserting, immediately after “(f),”, “(ia),”.

Amendment of paragraph 50B

6. Paragraph 50B of the principal Order is amended —

- (a) by inserting, immediately after the definition of “agent”, the following definition:

““baggage” means the personal property of passengers or crew carried on an aircraft by agreement with the operator;”;

- (b) by inserting, immediately after the words “major property” in the definition of “dangerous goods accident”, the words “or environmental”;

- (c) by inserting, immediately after the word “property” in the definition of “dangerous goods incident”, the words “or environmental”; and

- (d) by deleting the definition of “Technical Instructions” and substituting the following definition:

““Technical Instructions” means the Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284), approved and issued in accordance with the procedure established by the Council of the International Civil Aviation Organisation;”.

Amendment of paragraph 50H

7. Paragraph 50H of the principal Order is amended —

- (a) by inserting, immediately after the words “as he thinks fit” in sub-paragraph (1), the words “if he is satisfied that the exemption is a matter of necessity and extreme urgency,

other forms of transport are inappropriate or full compliance with the relevant provisions of the Technical Instructions is contrary to public interest, provided that in such instances an overall level of safety in transport which is at least equivalent to the level of safety provided for in the Technical Instructions is achieved”; and

- (b) by deleting the words “2 years” in sub-paragraph (4) and substituting the words “one year”.

Amendment of paragraph 51

8. Paragraph 51 of the principal Order is amended —

- (a) by deleting the words “designed exclusively” in the definition of “aircraft” in sub-paragraph (1)(c) and substituting the words “specifically designed and used”;
- (b) by inserting, immediately after the words “8,618 kg or more” in the definition of “aircraft” in sub-paragraph (1)(d), the words “, except that which is specifically designed and used for agricultural or fire fighting purposes”;
- (c) by deleting the words “designed exclusively” in the definition of “aircraft” in sub-paragraph (1)(e) and substituting the words “specifically designed and used”; and
- (d) by deleting sub-paragraph (2) and substituting the following sub-paragraph:

“(2) This Part shall apply to every aircraft landing or taking off in Singapore except —

- (a) an aircraft flying in accordance with “A Conditions” or “B Conditions” set out in the Second Schedule; or
- (b) an aircraft in respect of which no noise certification standards are specified in the Annex.”.

Amendment of paragraph 62

9. Paragraph 62 of the principal Order is amended by deleting the words “Every person” in sub-paragraph (2) and substituting the words “Unless otherwise provided in Part II of the Eleventh Schedule, every person”.

New paragraphs 72B and 72C

10. The principal Order is amended by inserting, immediately after paragraph 72A, the following paragraphs:

“Aerodrome rescue and fire fighting training organisation

72B.—(1) No person shall provide any course of training or instruction in aerodrome rescue and fire fighting to a holder of an aerodrome certificate granted under paragraph 67(4) unless he is an approved aerodrome rescue and fire fighting training organisation.

(2) If —

- (a) a person makes the application to be an approved aerodrome rescue and fire fighting training organisation in such manner and form as the Chief Executive may require;
- (b) the person provides one or more courses of training or instruction in aerodrome rescue and fire fighting that are acceptable to the Chief Executive; and
- (c) in a case where a simulator is to be used for the purposes of aerodrome rescue and fire fighting training, the person uses a simulator that is acceptable to the Chief Executive,

the Chief Executive may grant a written approval to the person as an aerodrome rescue and fire fighting training organisation, either absolutely or subject to such conditions as he thinks fit.

(3) The Chief Executive may, in such manner as he thinks fit, publish a manual, to be called the “Manual of Standards — Aerodrome Rescue and Fire Fighting Training”, containing such standards, recommended practices and guidance material relating to aerodrome rescue and fire fighting training as he may determine to be applicable in Singapore.

(4) An approved aerodrome rescue and fire fighting training organisation shall comply with the applicable standards specified in the Manual of Standards — Aerodrome Rescue and Fire Fighting Training and the conditions of the written approval granted to him under sub-paragraph (2).

(5) The Chief Executive may suspend or revoke the written approval granted under sub-paragraph (2) if there is any reasonable ground for believing that —

- (a) an applicable standard specified in the Manual of Standards — Aerodrome Rescue and Fire Fighting Training has not been complied with; or
- (b) a condition to which the written approval is subject has been breached.

(6) Before suspending or revoking the written approval under sub-paragraph (5), the Chief Executive shall —

- (a) give the approved aerodrome rescue and fire fighting training organisation concerned a notice which —
 - (i) sets out the facts and circumstances that, in the opinion of the Chief Executive, justify the suspension or revocation of that written approval; and
 - (ii) invite it to show cause, in writing, not more than 14 days after the date stated in the notice, as to why that written approval should not be suspended or revoked; and
- (b) take into account any reason that it may give under sub-paragraph (a)(ii).

(7) Any suspension under sub-paragraph (5) may be for a period not exceeding 12 months.

(8) The Chief Executive may lift any suspension of the written approval granted under sub-paragraph (2) if at any time before the expiry of the period of suspension, the approved aerodrome rescue and fire fighting training organisation complies with the applicable standard referred to in the Manual of Standards — Aerodrome Rescue and Fire Fighting Training, or remedies the breach of the condition to which the written approval is subject.

(9) In this paragraph and paragraph 72C, “approved aerodrome rescue and fire fighting training organisation” means a person who is approved as an aerodrome rescue and fire fighting training organisation under sub-paragraph (1).

Access to aerodrome rescue and fire fighting training organisation

72C.—(1) The Chief Executive or any authorised person may, before a written approval is granted under paragraph 72B(1) and subsequently at any other time —

- (a) inspect and carry out tests on the aerodrome rescue and fire fighting training organisation’s facilities, equipment or services; or
- (b) inspect the aerodrome rescue and fire fighting training organisation’s documents and records.

(2) For the purposes of sub-paragraph (1), the Chief Executive and any authorised person shall have access, at all reasonable times, to any part of the premises at which the aerodrome rescue and fire fighting training organisation conducts aerodrome rescue and fire fighting training, courses or instruction and any of its facility, equipment, records and personnel, and the person applying to be an approved aerodrome rescue and fire fighting training organisation or the approved aerodrome rescue and fire fighting training organisation, as the case may be, shall allow such access.”.

Amendment of paragraph 87

11. Paragraph 87 of the principal Order is amended —

- (a) by deleting the words “certifying that the holder of the certificate is competent to ensure that the aircraft operated by him are operated safely” in sub-paragraph (1);
- (b) by deleting the words “shall grant to a person an air operator certificate” in sub-paragraph (2) and substituting the words “may grant or renew an air operator certificate to a person”;
- (c) by inserting, immediately after the word “granted” in sub-paragraphs (2A), (2B), (2C) and (4), the words “or renewed”; and
- (d) by inserting, immediately after the words “apply for” in sub-paragraph (3), the words “the grant or renewal of”.

Amendment of First Schedule

12. Part B of the First Schedule to the principal Order is amended by deleting the words “fire-proof metal plate” in paragraph 5 and substituting the words “plate made of fireproof material, which shall be”.

Amendment of Eighth Schedule

13. The Eighth Schedule to the principal Order is amended —

(a) by inserting, immediately after the paragraphs relating to “Private Pilot’s Licence (Aeroplanes)” in item 2 of Part A, the following paragraphs:

“Multi-crew Pilot’s Licence (Aeroplanes)

Minimum age — 18 years.

Maximum period of validity* —

- (a) 6 months from the date on which the licence is granted or renewed, if the holder is 60 years of age or more on that date; or
- (b) 12 months from the date on which the licence is granted or renewed, in any other case.

Privileges: The licence —

- (a) shall entitle the holder to exercise the privileges of a Private Pilot’s Licence (Aeroplanes) which includes a night rating (*aeroplanes*);
- (b) shall entitle the holder to exercise the privileges of Instrument Rating (Aeroplanes); and
- (c) shall entitle the holder to fly as a co-pilot of any aeroplane required to be operated with a co-pilot and which is of a type specified in Part II of the aircraft rating included in the licence, when the aeroplane is engaged in a flight for the purpose of public transport or aerial work;

Provided that he shall not, unless he has demonstrated an ability to act as pilot-in-command in a single-pilot operation exercised solely by reference to instruments, exercise the privileges of an Instrument Rating (Aeroplanes) in a single-pilot operation in aeroplanes.

*In respect of the privileges of a Private Pilot’s Licence the maximum period of validity shall be as given for the Multi-crew Pilot’s Licence.”;

(b) by deleting the words “Maximum period of validity*” (including the footnote) relating to “Commercial Pilot’s Licence (Aeroplanes)” in item 2 of Part A and substituting the following words:

“Maximum period of validity*

*In respect of the privileges of a Private Pilot’s Licence the maximum period of validity shall be as given for the Commercial Pilot’s Licence (Aeroplanes).”;

(c) by deleting the words “Maximum period of validity*” (including the footnote) relating to “Commercial Pilot’s

Licence (Helicopters and Gyroplanes)” in item 3 of Part A and substituting the following words:

“Maximum period of validity*”

*In respect of the privileges of a Private Pilot’s Licence the maximum period of validity shall be as given for the Commercial Pilot’s Licence (Helicopters and Gyroplanes).”;

- (d) by deleting the words “Maximum period of validity*” (including the footnote) relating to “Commercial Pilot’s Licence (Balloons)” in item 4 of Part A and substituting the following words:

“Maximum period of validity*”

*In respect of the privileges of a Private Pilot’s Licence the maximum period of validity shall be as given for the Commercial Pilot’s Licence (Balloons).”;

- (e) by deleting the words “Maximum period of validity*” (including the footnote) relating to “Commercial Pilot’s Licence (Airships)” in item 4 of Part A and substituting the following words:

“Maximum period of validity*”

*In respect of the privileges of a Private Pilot’s Licence the maximum period of validity shall be as given for the Commercial Pilot’s Licence (Airships).”;

- (f) by deleting the word “and” at the end of sub-paragraph (b)(iii) relating to “Assistant Flying Instructor’s Rating” in paragraph 1 of Part B; and

- (g) by deleting the full-stop at the end of sub-paragraph (b)(iv) in the sub-paragraph relating to “Assistant Flying Instructor’s Rating” in item 1 of Part B and substituting the word “; and”, and by inserting immediately thereafter the following sub-paragraph:

“(v) his flight as part of any Multi-crew Pilot Licence course of training or instruction that has been approved under paragraph 20(13).”.

Amendment of Eleventh Schedule

14. The Eleventh Schedule to the principal Order is amended —

- (a) by deleting sub-paragraph c) of paragraph 3.1.8 of Chapter 3 of Part I and substituting the following sub-paragraph:

“c) a distance not exceeding 1 km (0.5 NM) laterally and longitudinally and 30 m (100 ft) vertically from the flight leader shall be maintained by each aircraft.”; and

- (b) by inserting, immediately after paragraph 16 of Part II, the following paragraph:

“Formation Flights

17.1. Rule 3.1.8 of Part I shall not apply to military aircraft.

17.2. Military aircraft shall not be flown in formation except by pre-arrangement among the pilots-in-command of the aircraft taking part in the flight and, for formation flight in controlled airspace, in accordance with the conditions prescribed by the appropriate ATS authority. These conditions shall include the following:

- (a) the formation operates as a single aircraft with regard to navigation and position reporting;
- (b) separation between aircraft in the flight shall be the responsibility of the flight leader and the pilots-in-command of the other aircraft in the flight and shall include periods of transition when aircraft are manoeuvring to attain their own separation within the formation and during join-up and breakaway; and
- (c) a distance not exceeding 2 km (1 NM) laterally and longitudinally and 30 m (100 ft) vertically from the flight leader shall be maintained by each military aircraft.”.

Amendment of Twelfth Schedule

15. The Twelfth Schedule to the principal Order is amended —

- (a) by deleting the words “for any year, or part of a year, of the period required for carrying out the investigation” in paragraph 2(a);
- (b) by deleting “\$17” in paragraph 10(a) and substituting “\$80”;
- (c) by inserting, immediately after sub-paragraph (a) of paragraph 10, the following sub-paragraphs:
 - “(aa) in respect of the cancellation by a candidate of a booking for an examination referred to in sub-paragraph (a) \$30
 - (ab) in respect of the re-scheduling by a candidate of an examination referred to in sub-paragraph (a) \$20”;
- (d) by deleting the words “or a Commercial Pilot’s Licence (Helicopters and Gyroplanes)” in sub-paragraph (1)(a) of paragraph 12 and substituting the words “a Commercial Pilot’s Licence (Helicopters and Gyroplanes) or a Multi-crew Pilot’s Licence (Aeroplanes)”;

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- (e) by inserting, immediately after the words “Private Pilot’s Licence (Helicopters and Gyroplanes),” in sub-paragraph (1)(b) of paragraph 12, the words “a Multi-crew Pilot’s Licence (Aeroplanes)”;
- (f) by deleting sub-paragraph (g) of paragraph 12(2) and substituting the following sub-paragraph:
- “(g) for a flying test §132”.

Amendment of Thirteenth Schedule

16. Part A of the Thirteenth Schedule to the principal Order is amended by deleting the words “paragraph 1 of Part IV” and substituting the words “paragraph 2(1) and (1A) of Part IV”.

Amendment of Fourteenth Schedule

17. The Fourteenth Schedule to the principal Order is amended by inserting, immediately after sub-paragraph (v) of paragraph 7(a), the following sub-paragraph:

“(vi) Multi-crew Pilot’s Licence (Aeroplanes);”.

Amendment of Nineteenth Schedule

18. Part IV of the Nineteenth Schedule to the principal Order is amended —

- (a) by deleting paragraph 1; and
- (b) by deleting sub-paragraph (1) of paragraph 2 and substituting the following sub-paragraphs:

“(1) The following persons shall establish and maintain initial and recurrent dangerous goods training programmes:

- (a) shippers of dangerous goods, including packers and persons or organisations undertaking the responsibilities of the shipper;
- (b) operators of aircraft;
- (c) ground handling agencies which perform, on behalf of the operator, the act of accepting, handling, loading, unloading, transferring or other processing of cargo, mail or stores;
- (d) ground handling agencies located at an airport which perform, on behalf of the operator, the act of processing passengers; and
- (e) agencies, not located at an airport, which perform, on behalf of the operator, the act of checking in passengers.

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- (1A) The persons referred to in sub-paragraph (1) shall —
- (a) ensure that the contents of the initial and recurrent dangerous goods training courses are in accordance with Tables 1-4 and 1-5 of the Technical Instructions; and
 - (b) maintain records of such training programmes as specified in paragraph 4.2 of the Technical Instructions.”.

*[G.N. Nos. S 573/91; S 49/92; S 60/92; S 180/92; S 61/93; S 199/93;
S 8/94; S 67/98; S 325/2000; S 384/2000; S 166/2002; S 56/2003;
S 440/2003; S 581/2003; S 331/2005; S 781/2005; S 487/2006;
S 640/2006; S 299/2009; S 278/2010; S 423/2010; S 729/2010;
S 162/2011]*

Made this 3rd day of October 2011.

CHOI SHING KWOK
*Permanent Secretary,
Ministry of Transport,
Singapore.*

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