

Advisory Circular

AIRCRAFT TYPES ACCEPTABLE FOR ENDORSEMENT ON A SAR-66 AIRCRAFT MAINTENANCE LICENCE

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1. **GENERAL.** Pursuant to paragraph 88B of the Air Navigation Order, the Director-General of the Civil Aviation Authority of Singapore (DGCA) may, from time to time, issue advisory circulars (ACs) on any aspect of safety in civil aviation. This AC contains information about standards, practices and procedures acceptable to CAAS. The revision number of the AC is indicated in parenthesis in the suffix of the AC number.
2. **PURPOSE.** This AC provides the list of aircraft type and group ratings that may be endorsed on a SAR-66 aircraft maintenance licence.
3. **APPLICABILITY.** This AC is applicable to persons seeking an endorsement of an aircraft type or group rating in a SAR-66 aircraft maintenance licence.
4. **CANCELLATION.** This AC supersedes AC 66-5(1) issued on 11 August 2010.
5. **EFFECTIVE DATE.** This AC is effective on 1 April 2013.
6. **REFERENCES.** SAR 66.45
7. **INTRODUCTION.** SAR 66.45 (b) states that '*...the holder of a category B1, B2 or C aircraft maintenance licence shall only exercise certification privileges on a specific aircraft type when the aircraft maintenance licence is endorsed with the appropriate aircraft type rating.*'
8. **AIRCRAFT TYPE / GROUP RATINGS.** Appendix 1 of this AC provides a list of individual aircraft types and group ratings which may be endorsed in a SAR-66 aircraft maintenance licence. The following self-explanatory information is also appended in the headers of the listing of aircraft in the Appendix.
 - (a) Information on whether the licence holder is required to hold the appropriate aircraft type rating or an aircraft group rating (full group or manufacturer group) to be able to exercise his or her licence privileges on that aircraft type; and
 - (b) Information on whether the applicant is required to attend and pass an aircraft type training course or to pass an aircraft type examination only, in order to qualify for a rating.

9. **RATINGS FOR AIRCRAFT TYPES NOT ON SINGAPORE REGISTER.** CAAS normally endorses only aircraft types that are in the Singapore register on a SAR-66 aircraft maintenance licence (AML). However, CAAS may endorse a type rating for an aircraft type not in the Singapore register if the employer of the licence holder, being a SAR-145 approved maintenance organisation, has an approval rating to maintain that aircraft type, or is in the process of obtaining such an approval rating.
- 10 **RIGHT TO NOT ACCEPT APPLICATION.** CAAS reserves the right to not accept any application for type rating as it deems fit.

APPENDIX 1 : AIRCRAFT TYPE AND GROUP RATINGS

The following lists show the individual type ratings and group ratings, which may be eligible for endorsement on SAR-66 licences.

1. For aircraft other than large aircraft and not classified as complex, full group ratings or manufacturer group ratings may be endorsed on a SAR-66 Categories B1 and C licence.

Full Group Ratings (aeroplanes):

- Group – aeroplane multiple piston engines – metal structure
- Group – aeroplane single piston engine – metal structure
- Group – aeroplane multiple piston engines – composite structure
- Group – aeroplane single piston engine – composite structure
- Group – aeroplane single turbine engine

Note: No full group ratings will be granted for a Category B1 licence for multiple turbine engine aeroplanes, where only manufacturer group ratings applies.

Full Group Ratings (helicopters):

- Group – helicopter single piston engine
- Group – helicopter single turbine engine

Manufacturer group ratings:

- Cessna – aeroplane multiple engines – metal structure
- Cessna – aeroplane single engine – metal structure
- Diamond Aircraft – aeroplane single piston engine – composite structure
- Piper – aeroplane multiple piston engines – metal structure
- Piper – aeroplane single piston engine – metal structure
- SOCAT A – aeroplane single piston engine – metal structure

For Categories B2 and C, the following group ratings may be endorsed:

Full Group Ratings:

- Group – aeroplane
- Group – helicopter

2. Aeroplanes with a maximum take-off mass of more than 5,700 kg, where only individual aircraft type ratings may be endorsed (Licence holder to attend and pass an aircraft type training course)

- Airbus A300B4 (GE CF6)
- Airbus A310-200 (PW JT9D)
- Airbus A310-300 (PW 4000)
- Airbus A319/A320/A321 (IAE V2500)
- Airbus A318/A319/A320/A321 (CFM56)
- Airbus A330 (PW4000)
- Airbus A330 (GE CF6)
- Airbus A330 (RR Trent 700)
- Airbus A340-300 (CFM56)
- Airbus A340-500 (RR Trent 500)
- Airbus A380 (RR Trent 900)
- BAC 1-11 (RR Spey)
- Boeing B707 (PW JT3D)
- Boeing B727 (PW JT8D)
- Boeing B737-100/200 (PW JT8D)
- Boeing B737-300/400/500 (CFM56)
- Boeing B737-600/700/800/900 (CFM56)
- Boeing B747-200/300 (GE CF6)
- Boeing B747-200/300 (PW JT9D)

- Boeing B747-400 (PW 4000)
- Boeing B747-400 (RR RB211)
- Boeing B757-200 (PW 2000)
- Boeing B757-200 (RR RB211)
- Boeing B767-200/300 (GE CF6)
- Boeing B767-200/300 (PW JT9D)
- Boeing B777-200/300 (GE 90)
- Boeing B777-200/300 (PW4000)
- Boeing B777-200/300 (RR Trent 800)
- Bombardier DHC-8-100 (PW 120)
- Cessna 680 (PWC306)
- De Havilland Comet 4 (RR Avon)
- Douglas Dakota C47 (PW R1830)
- Fokker F27 (RRD Dart)
- Fokker F70 (RRD Tay)
- Learjet 31 (Allied TFE 731)
- Learjet 45 (Allied TFE 731)
- McD DC-10 (GE CF6)
- McD MD-11 (GE CF6)
- McD MD-11 (PW4000)

**3. Aeroplanes with a maximum take-off mass of 5,700 kg and below, where only individual aircraft type ratings may be endorsed
(Licence holder to attend and pass an aircraft type training course)**

[nil]

**4. Aeroplanes with multiple turbine engines (AMTE), with a maximum take-off mass of 5,700 kg and below, that may be eligible for a manufacturer group rating
(Licence holder must pass an aircraft type examination)**

Note: No full group ratings will be granted for multiple turbine engine aeroplanes.

- Skyvan SC-7 Series 3 (Garrett TPE 331)

**5. Aeroplanes single turbine engine (ASTE), that may be eligible for a group rating
(Licence holder must pass an aircraft type examination)**

[nil]

**6. Aeroplane multiple piston engines – metal structure (AMPE-MS), that may be eligible for a group rating
(Licence holder must pass an aircraft type examination)**

- Britten Norman BN2A Trislander (Lycoming)
- Cessna 310 Series (Continental)
- Piper PA 23 (Lycoming)
- Piper PA 34 (Continental)
- Piper PA 34 (Lycoming)

7. Aeroplane single piston engine – metal structure (ASPE-MS), that may be eligible for a group rating

(Licence holder must pass an aircraft type examination)

- Cessna 150 Series (Continental)
- Cessna 152 (Lycoming)
- Cessna 172 Series (Continental)
- Cessna 172 Series (Lycoming)
- Piper PA 28 Series (Lycoming)
- Piper PA 38 Series (Lycoming)
- SOCATA TB 9 (Lycoming)
- SOCATA TB 10 (Lycoming)
- SOCATA TB 20 (Lycoming)
- SOCATA TB 200 (Lycoming)

8. Aeroplane multiple piston engine – wooden structure (AMPE-WS), that may be eligible for a group rating

(Licence holder must pass an aircraft type examination)

[nil]

9. Aeroplane single piston engine – wooden structure (ASPE-WS), that may be eligible for a group rating

(Licence holder must pass an aircraft type examination)

[nil]

10. Aeroplane multiple piston engines – composite structure (AMPE-CS), that may be eligible for a group rating

(Licence holder must pass an aircraft type examination)

[nil]

11. Aeroplane single piston engine – composite structure (ASPE-CS), that may be eligible for a group rating

(Licence holder must pass an aircraft type examination)

- Diamond DA40 (Lycoming)

12. Multi-engine helicopters (MEH), where only individual aircraft type ratings may be endorsed

(Licence holder to attend and pass an aircraft type training course)

- Bell 212 (PWC PT6)
- Eurocopter AS 355 (RR Corp 250)
- Eurocopter AS 355 (Turbomeca Arrius)
- Eurocopter AS 365 (Turbomeca Arriel)
- Eurocopter BO 105 Series (RR Corp 250)
- Eurocopter EC 135 (PWC PW206)
- Eurocopter EC 135 (Turbomeca Arrius)
- Eurocopter EC 155 (Turbomeca Arriel)
- Eurocopter MBB-BK 117 (Turbomeca Arriel)

**13. Helicopters with turbine engine (HTE), that may be eligible for a group rating
(Licence holder must pass an aircraft type examination)**

- Bell 206 (RR Corp 250)
- Eurocopter AS 350 (Turbomeca Arriel)
- Eurocopter EC 120 (Turbomeca Arrius)
- Eurocopter EC 130 (Turbomeca Arriel)

**14. Helicopters with piston engine (HPE), that may be eligible for a group rating
(Licence holder must pass an aircraft type examination)**

[nil]

B2 Avionic ratings are entered as per individual ratings 2 to 14 above, under the individual aircraft types for B1.1, B1.2, B1.3 and B1.4.

Group Ratings and Complex Aircraft

Under SAR-66.45(g), holders of group ratings can certify all aircraft within the specified group, with the exception of aircraft listed as large aircraft or those aircraft where CAAS has determined that the complexity of the aircraft requires a type rating.