

PROPOSAL TO INSERT SA-CAR 56 TO BE ISSUED UNDER THE CIVIL AVIATION REGULATIONS, 2011

PROPOSER

RAASA
Postnet Suite #118
Private Bag X1037
Germiston
1400

PROPOSER'S INTEREST

Recreation Aviation Administration South Africa (RAASA) is designated by the Director for Civil Aviation in terms of the Civil Aviation Act 2009 and Regulation 149 of the Civil Aviation Regulations to establish standards relating to recreational aviation and oversight over such activities.

RAASA is a member of the Civil Aviation Regulation Committee which includes various sub-committees. This proposal is a subject of these sub-committees as RAASA relies on consultative processes in executing its functions.

GENERAL EXPLANATORY NOTE

The addition and correction of the submission is to clarify and make provision for a new Part 56 for Technical Approved Persons to replace Part 66.4. Part 66.4 will be deleted in its entirety and replaced by the new Part 56 because Part 66.4 does not adequately make provision for Technical Approved Persons.

For ease of understanding the proposal please note the following in line with the CARCom standards.

Words in **[bold and solid square bracket]** indicate deletions from the existing regulations.

Words underlined with a solid line indicate insertions in the existing regulations.

1. PROPOSAL FOR THE DELETION OF PART 66.4

[SUBPART 4: APPROVED PERSON CERTIFICATE

Applicability

66.04.1 This subpart applies to the issuing of approvals, certificates and ratings to natural persons, other than licensed AMEs, licensed pilots and persons authorised by the holder of an AMO approval, to carry out maintenance on South African registered non-type certificated aircraft, their engines, components and equipment.

Authority to act as approved person

66.04.2 (1) No person shall act as an approved person on any aircraft mentioned in Part 24 and referred to in regulation 66.04.3, unless such person is the holder of a valid approved person certificate with the appropriate rating issued by the Director or, if applicable, the body or institution designated for the purpose in terms of Part 149, as the case may be.

(2) The holder of an approved person certificate shall not exercise privileges other than those granted by the approval and the appropriate rating held by such holder.

Categories of aircraft

66.04.3 An approved person certificate may be issued in respect of any of the following categories of non-type certificated aircraft—

- (a) aeroplanes, including microlight aeroplanes;**
- (b) helicopters;**
- (c) gyroplanes and gyrogliders;**
- (d) gliders, including power assisted and touring gliders;**
- (e) manned captive and manned free balloons;**
- (f) powered paragliders and paratrikes, as well as powered hang-gliders.**

Classes of certificates

66.04.4 (1) The classes of certificates for an approved person are—

- (a) APC1: inspection certificate, which does not include inspections on repair, or modification work;**
- (b) APC2: repair and maintenance certificate, which includes inspections on repair, maintenance or modification work which has been done as well as carrying out such work;**
- (c) APC3: restricted inspection certificate for airframes and/or engines, issued by type, excluding inspections on modifications and repairs.**

(2) The certificates referred to in subregulation (1) may be issued in one or more of the following groups—

- (a) Airframes are classified into the following groups—**
 - (i) Group 1 – aeroplanes of wooden construction, with an MCM of 5 700 kg or less;**
 - (ii) Group 2 – aeroplanes constructed of composites, with an MCM of 5 700 kg or less;**
 - (iii) Group 3 – aeroplanes of fabric-covered tubular-metal construction, with an MCM of 5 700 kg or less;**
 - (iv) Group 4 – unpressurised aeroplanes of all-metal construction, with an MCM of 5 700 kg or less;**

- (v) **Group 5 – pressurised aeroplanes of all-metal construction, with an MCM of 5 700 kg or less;**
- (vi) **Group 6 – unpressurised aeroplanes of all-metal construction, with an MCM exceeding 5 700 kg;**
- (vii) **Group 7 – rotorcraft powered by reciprocating engines;**
- (viii) **Group 8 – pressurised aeroplanes of all-metal construction, with an MCM exceeding 5 700 kg;**
- (ix) **Group 9 – rotorcraft powered by turbine jet engines, with an MCM of 3 180 kg or less;**
- (x) **Group 10 – rotorcraft powered by turbine jet engines, with an MCM exceeding 3 180 kg;**
- (xi) **Group 11 – aeroplanes constructed of composites, with an MCM exceeding 5 700 kg;**
- (xii) **Group 12 – balloons;**
- (xiii) **Group 13 – trikes; and**
- (xiv) **Group 14 – all other aircraft.**

(b) Engines are classified into the following groups—

- (i) **Group 01 – all horizontally opposed normally-aspirated piston engines;**
- (ii) **Group 02 – all horizontally opposed turbo-normalised, turbo-charged and supercharged piston engines;**
- (iii) **Group 03 – all in-line piston engines;**
- (iv) **Group 04 – all radial engines;**
- (v) **Group 05 – turbine jet engines; and**
- (vi) **Group 06 – all other engines.**

(3) The categories of ratings for an APC2: repair and maintenance certificate for approved persons are—

(a) Category A rating, for all types of—

- (i) **aeroplanes registered in the Republic, either singly or in the groups referred to in subregulation (2); or**
- (ii) **rotorcraft registered in the Republic, either singly or in the groups referred to in subregulation (2);**

(b) Category C rating, for all types of engines installed in—

- (i) **aeroplanes registered in the Republic, either singly or in the groups referred to in subregulation (2); or**
- (ii) **rotorcraft registered in the Republic, either singly or in the groups referred to in subregulation (2); and**

(c) Category W rating, for any—

- (i) **avionic equipment;**

- (ii) electrical equipment;
- (iii) instrument equipment; or
- (iv) combination of such equipment, installed in aircraft registered in the Republic.

(4) The categories of ratings for an APC1: inspection certificate for approved persons are—

(a) Category B rating, for all types of—

- (i) aeroplanes registered in the Republic, either singly or in the groups referred to in subregulation (2); or
- (ii) rotorcraft registered in the Republic, either singly or in the groups referred to in subregulation (2);

(b) Category D rating, for all types of engines installed in—

- (i) aeroplanes registered in the Republic, either singly or in the groups referred to in subregulation (2); or
- (ii) rotorcraft registered in the Republic, either singly or in the groups referred to in subregulation (2); and

(c) Category X rating, for—

- (i) the installation of compasses;
- (ii) the installation of engine ignition equipment;
- (iii) the installation of variable-pitch propellers;
- (iv) the installation of instruments, including or excluding electrically operated instruments;
- (v) the installation of electrical equipment;
- (vi) the installation of automatic pilots; or
- (vii) the installation of avionic equipment, including or excluding equipment employing pulse techniques.

Competency

66.04.5 The holder of an approved person certificate shall not exercise the privileges granted by the approval and rating unless such holder maintains competency by complying with the appropriate requirements prescribed in this Part and in the approved manual of procedures of the body or institution designated in terms of Part 149.

Consumption of alcohol and drugs

66.04.6 No approved person shall—

- (a) carry out any maintenance on an aircraft, its components or equipment while the concentration of alcohol in any specimen of blood taken from any part of his or her body is more than 0.02 gram per 100 millilitres, or when under the influence of any drug having a narcotic effect; or
- (b) consume alcohol or take any drug having a narcotic effect whilst carrying out maintenance on an aircraft, its components or equipment.

Language

66.04.7 An approved person shall have sufficient ability in reading, speaking and understanding the English language to enable him or her to adequately carry out his or her responsibilities as an approved person.

Requirements for approval and rating

66.04.8 An applicant for the issuing of an approved person certificate with the appropriate category and rating shall—

- (a)** be not less than 18 years of age;
- (b)** have successfully passed the theoretical knowledge examination referred to in regulation 66.04.9; and
- (c)** have acquired the experience referred to in regulation 66.04.10.

Theoretical knowledge examination

66.04.9 (1) An applicant for the issuing of an approved person certificate shall have successfully passed the written examination prescribed in Document SA-CATS 66.

(2) A candidate who fails the written examinations referred to in subregulation (1), may within 30 days from the date of notification of the examination results apply in writing for a remark.

(3) The application shall be made on the appropriate form and be accompanied by the appropriate fee prescribed in Part 187.

(4) If the remark is successful, the fee will be refunded.

(5) An applicant, who fails the written examinations referred to in subregulation (1), may apply for re-testing after a period of not less than 3 months; Provided that an applicant may only be re-tested twice.

Experience

66.04.10 An applicant for the issuing of an approved person certificate shall either—

- (a)** be the primary builder of, and have obtained an authority to fly for his or her own aircraft; or
- (b)** have obtained proven aircraft maintenance experience, compatible with the particular rating; or
- (c)** in the case of the APC3 restricted inspection rating, complete the practical training as per Document SA-CATS 66.

Application for approval or amendment

66.04.11 An application for the issuing of an approved person certificate or for an amendment thereof, shall—

- (a)** be made on the appropriate form as prescribed by the Director; and
- (b)** be accompanied by—

- (i) original or certificated proof of—
 - (aa) the identity of the applicant;
 - (bb) the age of the applicant;
 - (cc) the maintenance experience of the applicant; and
 - (dd) if applicable: the build number, issued in terms of paragraph (c) of subregulation 24.01.2 (4), and the authority to fly, issued in terms of subpart 2 of Part 24;
- (ii) original or certificated proof that the applicant has passed the theoretical knowledge examination referred to in regulation 66.04.9;
- (iii) two recent passport-size photographs of the applicant; and
- (iv) the appropriate fee as prescribed in Part 187.

Issuing of approval certificate

66.04.12 (1) The Director or if applicable, the organisation designated for the purpose in terms of Part 149, as the case may be, shall issue an approved person certificate with the appropriate rating if the applicant complies with the requirements referred to in regulation 66.04.11.

(2) The certificate shall be issued on the appropriate prescribed form.

(3) The certificate shall specify the categories of aircraft, classes of certificates and ratings, and where applicable the name of non-type certificated aircraft, its components or equipment in respect of which the holder of such certificate is entitled to exercise the privileges thereof.

(4) Upon receipt of the approved person certificate, the holder shall forthwith affix his or her signature in ink in the space on the certificate provided for such purpose.

Period of validity

66.04.13 (1) An approved person certificate issued in accordance with this subpart shall be valid for a period of 24 months, calculated from the date on which the approval is issued or from the date of renewal of the approval if such approval is renewed in accordance with the provisions of regulation 66.04.14.

(2) Any amendment of an approval person certificate shall be valid for the period for which the certificate is valid.

Renewal of approved person certificate

66.04.14 (1) To renew an approved person certificate, the holder thereof shall—

- (a) within the 24 months preceding the date of expiry of the certificate, have carried out an inspection or maintenance on at least two aircraft within his or her class(es) or rating(s);
- (b) within 30 days immediately preceding the date of expiry of such certificate, submit an application for renewal accompanied by—
 - (i) a certificated true copy of the certificate held by the applicant;
 - (ii) original or certificated proof of compliance with the provisions of paragraph (1) (a).

(2) The application for the renewal of the certificate shall be made on the prescribed form.

(3) The Director or the organisation designated for the purpose in terms of part 149, as the case may be, shall renew the certificate if the applicant complies with the requirements referred to in subregulation (1).

(4) The certificate shall be renewed on the appropriate prescribed form.

Reissue

66.04.15 (1) (a) The holder of an approved person certificate that has expired due to the lapse of the period referred to in regulation 66.04.13 may apply to the Director or, if applicable, the organisation designated for the purpose in terms of Part 149, as the case may be, for the reissue of the expired certificate.

(b) To qualify for reissuing of the certificate the person needs to comply with the requirements prescribed in regulation 66.04.8.

(2) Upon application for the reissue of the expired certificate, the Director or, if applicable, the organisation designated for the purpose in terms of Part 149, as the case may be, shall reissue such certificate if the applicant complies with the requirements prescribed in regulation 66.04.8.

(3) The provisions of regulations 66.04.11 and 66.04.12 shall apply with the necessary changes to an application referred to in subregulation (1).

Privileges and limitations

66.04.16 (1) Subject to the provisions of regulations 66.04.5 and 66.04.6, the holder of an approved person certificate shall be entitled—

(a) if he or she is the holder of the inspection certificate—

- (i) to exercise in respect of a non-type certificated aircraft, the privileges of an authorised officer, inspector or authorised person provided for in regulations 24.01.8 and 24.01.9;**
- (ii) to carry out inspections on a non-type certificated aircraft in accordance with the requirements prescribed in Part 24 as may be called for from time to time by the constructor or owner of the non-type certificated aircraft;**
- (iii) certify the aircraft logbook(s) when the inspection, repair or maintenance work took place, and the outcome of such inspection;**
- (iv) certify, in accordance with the regulations in Part 24 of the regulations, the release to service of the non-type certificated aircraft;**

(b) if he or she is the holder of the repair and maintenance certificate—

- (i) to carry out, in accordance with the requirements prescribed in Part 24, such maintenance, repairs or modifications, including the inspections referred to in subparagraph (a) (ii), on a non-type certificated aircraft, its components and equipment as may be called for from time to time by the constructor or owner of the non-type certificated aircraft;**
- (ii) certify in the aircraft logbook(s)—**
 - (aa) all maintenance or repairs carried out on the aircraft; and**
 - (bb) all modifications incorporated on the aircraft in accordance with regulation 44.01.10; and**
- (iii) certify, in accordance with the regulations in Part 24, the release to service of the non-type certificated aircraft;**

(c) if he or she is the holder of an APC3 restricted inspection approved person certificate—

- (i) to carry out annual inspections on a non-type certificated aircraft or engine for which he or she holds the type rating, in accordance with the requirements prescribed in Part 24, for the purpose of renewing the annual authority to fly;**
- (ii) to certify the logbook(s) as to when the inspection took place and the outcome of such inspection;**
- (iii) to certify, in accordance with the regulations in Part 24, the release to service of the non-type certificated aircraft or engine for which he or she holds the type rating; and**

(d) to complete form RA24.01.

(2) The holder of an approved person certificate is not authorised to grant permission to the constructor to fly his or her aircraft for the purposes of carrying out proving or test flights unless he or she is the holder of the appropriate flight test rating.

(3) Any inspection carried out on a non-type certificated aircraft in terms of regulation 24.01.8 shall be of a conditional nature in that the approved person carrying out the inspection shall not be required to guarantee the airworthiness of the aircraft.

(4) Whenever an authorised person issues a release of service for a non-type certificated aircraft he or she thereby certifies that he or she is satisfied that the aircraft and all its equipment are in every way serviceable for flight and that all maintenance has been carried out in accordance with the regulations and with the aircraft's approved maintenance schedule.

(5) The holder of an authorised person certificate who wishes to carry out welding on a non-type certificated aircraft shall be the holder of a welding certificate for the type of welding to be carried out. The certificate does not necessary have to be for aircraft welding.

Register of approved persons

66.04.17 (1) The Director or, if applicable, the organisation designated for the purpose in terms of Part 149, as the case may be, shall maintain a register of all approved person certificates issued, renewed or reissued in terms of this Part.

(2) The register shall contain the following particulars—

- (a) the full name of the holder of the certificate;**
- (b) the postal address of the holder of the certificate;**
- (c) the date on which the certificate was issued, renewed or reissued;**
- (d) particulars of the ratings held by the certificate holder; and**
- (e) the nationality of the holder of the certificate.**

(3) The particulars referred to in subregulation (2) shall be recorded in the register within seven days from the date on which the certificate is issued, renewed or reissued.

(4) The register shall be kept at a safe place at the office of the Director or, if applicable, the organisation designated for the purpose in terms of Part 149, as the case may be.

(5) The register, referred to in subregulation (1), shall be made available to any person upon request.

Responsibilities of certificate holder

66.04.18 The holder of an approved person certificate shall maintain a logbook up to date in which he or she shall record details of all inspections and maintenance carried out. The format of the logbook and the manner in which it will be kept are as prescribed in Part 43.

Suspension and cancellation of certificate and appeal

66.04.19 The procedure for the suspension and cancellation of an approved person certificate and appeal shall be as prescribed in regulations 185.00.4, 185.00.5 and 185.00.7]

2. PROPOSAL TO INCLUDE THE NEW PART 56

PART 56: TECHNICAL APPROVED PERSONS

LIST OF REGULATIONS: TECHNICAL APPROVED PERSONS

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Part 56, SUBPART 1: NTCA TECHNICAL APPROVED PERSON CERTIFICATE GENERAL

Applicability

56.01.1 (1) This Part applies to –

- (a) The approval of natural persons in order to exercise the privileges of a TAP including:
 - (i) persons, other than licenced AMEs or persons authorised in terms of Regulation 145.02.4 by the holder of an approved AMO; or
 - (ii) persons who hold or have held an AME licence issued in terms of Part 66; and
- (b) the issuing of TAP certificates and endorsements specifying the privileges and limitations applicable to the performance of maintenance, including repairs, overhauls, modifications, replacement, defect rectification and inspections on non-type certified aircraft and its components and equipment, including, but not limited to, airframes, engines, engine components.

Approval to act as a technical approved person

56.01.2 (1) No person shall act as a technical approved person on any aircraft listed in Parts 24 or operated in terms of Parts 94, 96 and 115, unless such person is the holder of a valid

technical approved person certificate specifying the appropriate endorsement issued by the designated administrative authority.

(2) The holder of a technical approved person certificate shall not exercise any privileges other than those reflected by the TAP approval and the appropriate endorsement held by such holder of a technical approved person certificate.

(3) The holder of a technical approved person certificate shall only exercise TAP privileges if while being a current and *bona fide* member of the technical approved person's program, and such privileges shall only be extended to *bona fide* members of an approved ARO in terms of Part 149.

TAP Certificate

56.01.3 (1) A technical approved person approval may be issued as any one or a combination of the following certificates, categories, groups or classes as applicable:

- (a) TAP1 certificate: is a technical approved person certificate which is issued to a person who has completed the TAP2 program, has passed the applicable examinations and gained the practical experience with both group A and C endorsements, and is approved for a heavy maintenance, repair, and inspection endorsement, which may include an approval for modifications and overhauls with Group B and/or D endorsements.
- (b) TAP2 certificate: is a technical approved person certificate which is issued to a person who has completed the TAP3 program, has passed the applicable examinations and gained the practical experience toward group A and/or C endorsements, and approved for a general maintenance and repair certificate, and to gain further practical experience and knowledge towards a TAP 1.
- (c) TAP3 certificate: a technical approved person certificate which is issued to a person who has a restricted basic maintenance and repair endorsement, in order to gain the practical experience and knowledge under the direct supervision of a TAP instructor or AMO approved for the purpose towards a TAP2.
- (d) TAP4 certificate: a technical approved person certificate which is issued to a person who has completed the major portion of a build, assembly or restoration of a NTCA, and has obtained an authority to fly, and who may exercise the privileges and limitations, relating to each of the aircraft, specified on the TAP certificate.
- (e) TAP Specialist certificate, may be issued to any person appointed, approved and recognised to be acceptable to the designated administrative authority, as a person with specialist knowledge, skills and experience.

Categories of aircraft

56.01.4 (1) A technical approved person certificate may be issued in respect of any of the following categories of non-type certified aircraft:

- (a) aeroplanes;
- (b) helicopters;
- (c) gyroplanes and gyro gliders;
- (d) microlight aeroplanes, including weight shift microlights
- (e) gliders;
- (f) touring motor gliders
- (g) manned captive and manned free balloons;
- (h) powered-paragliders, powered parachutes and powered-para trikes as well as powered hang-gliders or any other powered derivative thereof.
- (i) all other non-type certified aircraft not listed above.

Group Endorsements

56.01.5 (1) The group endorsements for a TAP 3 certificate are –

- (a) Group A endorsement, for aircraft in the categories referred to in regulation 56.01.4:
 - (i) Subgroup A1: aeroplanes; or
 - (ii) Subgroup A2: helicopters; or
 - (iii) Subgroup A3: gyroplanes; or
 - (iv) Subgroup A4: microlights including weight shift microlights; or
 - (v) Subgroup A5: gliders; or
 - (vi) Subgroup A6; touring motor gliders

- (b) Group C endorsement, for engines used in non-type certified aircraft in the categories referred to in regulation 56.01.4:
 - (i) Subgroup C1: aeroplanes; or
 - (ii) Subgroup C2: helicopters; or
 - (iii) Subgroup C3: gyroplanes, or
 - (iv) Subgroup C4: microlights including weight shift microlights; or
 - (v) Subgroup C5: glider sustainer or self- launch engines; or
 - (vi) Subgroup C6; touring motor gliders

(2) The group endorsements for a TAP 2 certificate are –

- (a) Group A, for non-type certified aircraft in the categories referred to in regulation 56.01.4:
 - (i) Subgroup A1: aeroplanes; or
 - (ii) Subgroup A2: helicopters, or
 - (iii) Subgroup A3: gyrocopters, or
 - (iv) Subgroup A4: microlights including weight shift microlights; or
 - (v) Subgroup A5: glider; or
 - (vi) Subgroup A6; touring motor gliders

- (b) Group C, for engines used in non-type certified aircraft in the categories referred to in regulation 56.01.4:
 - (i) Subgroup C1: aeroplanes; or

- (ii) Subgroup C2: helicopters, or
- (iii) Subgroup C3: gyrocopters, or
- (iv) Subgroup C4: microlights incl weight shift microlights; or
- (v) Subgroup C5: glider sustainer or self- launch engines; or
- (vi) Subgroup C6; touring motor gliders

(c) Group W2, equipment, avionics, pitot static systems, electrical equipment, instruments, or

(d) Group X3, equipment, instruments, pitot static systems, avionics, compasses, engine ignition equipment, electrical equipment; automatic pilots; or

(e) Group P3, propellers, or

(f) Group E3, rotors and rotor hub assemblies, or

(g) Group S2: welding.

(3) The group endorsements for a TAP 1 certificate with group A and C endorsements; are

(a) Group A, for non-type certified aircraft in the categories referred to in regulation 56.01.4:

- (i) Subgroup A1: aeroplanes; or
- (ii) Subgroup A2: helicopters, or
- (iii) Subgroup A3: gyroplanes, or
- (iv) Subgroup A4: microlights including weight shift microlights; or
- (v) Subgroup A5: gliders; or
- (vi) Subgroup A6; touring motor gliders

(b) Group C, for engines used in non-type certified aircraft in the categories referred to in regulation 56.01.4:

- (i) Subgroup C1: aero planes; or
- (ii) Subgroup C2: helicopters, or
- (iii) Subgroup C3: gyroplanes, or
- (iv) Subgroup C4: microlights including weight shift microlights; or
- (v) Subgroup C5: glider sustainer or self- launch engines; or
- (vi) Subgroup C6; touring motor gliders

(c) Group W1, equipment, avionics, electrical equipment, instruments, or

(d) Group X2, equipment, instruments, pitot static systems, avionics, compasses, engine ignition equipment, electrical equipment; automatic pilots; or

(e) Group P2, propellers, or

(f) Group E2, rotors and rotor hub assemblies, or

(g) Group S1, welding.

(4) The group endorsements for a TAP 1 certificate with group B, D, W, X, P, E and S endorsements are:

(a) Group B endorsements for non-type certified aircraft in the categories referred to in regulation 56.01.4, which includes airframe overhauls, modifications and inspections, is subject to obtaining a NTCA approved maintenance facility approval issued by the designated administrative authority, are:

- (i) Subgroup B1: aeroplanes or
- (ii) Subgroup B2: helicopters, or
- (iii) Subgroup B3: gyroplanes.
- (iv) Subgroup B4: microlights including weight shift microlights; or
- (v) Subgroup B5: gliders; or
- (vi) Subgroup B6; touring motor gliders

(b) Group D endorsements for engines used in non-type certified aircraft in the categories referred to in regulation 56.01.4, which includes engine overhauls, modifications and inspections which is subject to obtaining an NTCA approved maintenance facility approval issued by the designated administrative authority are:

- (i) Subgroup D1: aeroplanes or
- (ii) Subgroup D2: helicopters, or
- (iii) Subgroup D3: Gyrocopters, or
- (iv) Subgroup D4: microlights including weight shift microlights; or
- (v) Subgroup D5: glider sustainer or self- launch engines; or
- (vi) Subgroup D6; touring motor gliders.

(c) Subgroup W1, equipment, avionics, electrical equipment, instruments; or

(d) Subgroup X1, equipment, instruments, pitot static systems, avionics, compasses, engine ignition equipment, electrical equipment; automatic pilots; or

(e) Subgroup P1, propellers; or

(f) Subgroup E1, rotors and rotor hub assemblies; or

(g) Subgroup S1, welding.

Subgroups for airframes, engines, equipment and components

56.01.6 (1) These approvals may be endorsed in one or more of the following subgroups:

(a) Airframes group endorsements are divided into the following subgroups:

- (i) 1 A– aeroplanes of fabric-covered wooden construction, with a MTOW of 5 700 kilograms or less;
- (ii) 1 B– aeroplanes of fabric-covered wooden construction, with a MTOW of 1200 kilograms or less,
- (iii) 1 C – aeroplanes of fabric-covered wooden construction, with a MTOW of 600 kilograms or less;

- (iv) 2 A – aeroplanes constructed of composites, with a MTOW of 5 700 kilograms or less;
- (v) 2 B – aeroplanes constructed of composites, with a MTOW of 1200 kilograms or less;
- (vi) 2 C - aeroplanes constructed of composites, with a MTOW of 600 kilograms or less;
- (vii) 3 A – aeroplanes of fabric-covered tubular-metal construction, with a MTOW of 5 700 kilograms or less;
- (viii) 3 B – aeroplanes of fabric-covered tubular-metal construction, with a MTOW of 1200 kilograms or less;
- (ix) 3 C – aeroplanes of fabric-covered tubular-metal construction, with a MTOW of 600 kilograms or less;
- (x) 4 A – unpressurised aeroplanes of all-metal construction, with a MTOW of 5 700 kilograms or less;
- (xi) 4 B – unpressurised aeroplanes of all-metal construction, with a MTOW of 1200 kilograms or less;
- (xii) 4 C – unpressurised aeroplanes of all-metal construction, with a MTOW of 600 kilograms or less;
- (xiii) 5 – unpressurised aeroplanes of all-metal construction, with a MTOW exceeding 5 700 kilograms;
- (xiv) 6 – pressurised aeroplanes of all-metal construction, with a MTOW of 5 700 kilograms or less;
- (xv) 7 – pressurised aeroplanes of all-metal construction, with a MTOW exceeding 5 700 kilograms;
- (xvi) 8 – aeroplanes constructed of composites, with a MTOW exceeding 5 700 kilograms;
- (xvii) 9 A – helicopters, powered by piston engines, with a MTOW of 3175 kilograms or less;
- (xviii) 9 B – helicopters, powered by turbine jet engines with a MTOW of 3175 kilograms or less;
- (ixx) 9 C – helicopters, with a MTOW exceeding 3175 kilograms;
- (xx) 10 – balloons;
- (xxi) 11 – gyro-copters and gyro gliders with an MTOW of 2000Kg or less;

- (xxii) 12 – microlight aeroplanes including weight shift trikes with a MTOW not exceeding 450kg;
- (xxiii) 13 A - gliders of wooden, tube and fabric construction;
- (xxiv) 13 B - gliders of composite construction;
- (xxv) 13 C - gliders of metal construction.
- (xxvi) 14 - touring motor gliders;
- (xxvii) 15 – powered hang-gliders, powered paragliders, powered parachutes and powered paratrikes or any other powered derivative thereof;
- (xxviii) 16 - fabric coverings in accordance with endorsements listed in groups 1 and 3 above and as specified on the TAP certificate.
- (xxix) 17 - all other non-type certified aircraft not specified in this part, excluding parachutes;

(b) Engine group endorsements are divided into the following subgroups:

- (i) 01 A – previously certificated horizontally opposed normally- aspirated piston engines with a power endorsement not exceeding 200HP;
- (ii) 01 B – previously certificated horizontally opposed normally- aspirated piston engines with a power endorsement exceeding 200HP;
- (iii) 01 C – all NTC horizontally opposed normally aspirated piston engines;
- (iv) 02 A– previously certificated horizontally opposed turbo-normalised, turbo-charged and supercharged piston engines with a power endorsement not exceeding 200HP;
- (v) 02 B– previously certificated horizontally opposed turbo-normalised, turbo-charged and supercharged piston engines with a power endorsement exceeding 200HP;
- (vi) 02 C – all NTC horizontally opposed turbo-normalised, turbo-charged and supercharged piston engines;
- (vii) 03 A – previously certificated in-line piston engines;
- (viii) 03 B – all NTC in-line piston engines;
- (ix) 04 A – previously certificated radial engines;
- (x) 04 B – all NTC radial engines;
- (xi) 05 A – previously certificated turbine jet engines;
- (xii) 05 B – all NTC turbine jet engines;

- (xiii) 06 – other engines not listed above, including automotive and non-aviation engines;
- (xiv) 07 – two stroke engines;
- (xv) 08 – diesel and turbo diesel engines;
- (xvi) 09 – electrical engines;
- (xvii) 10 – sustainer and self-launch engines for gliders.

(c) Endorsements relating to equipment and components installed in non-type certified aircraft are divided in the following groups and subgroups:

(i) Group W Endorsement- equipment

- (aa) subgroup W1 = removal, refitting and inspections, holders of a TAP1, or
- (bb) subgroup W2 = removal and refitting, holders of a TAP 2.
- (cc) The , equipment and components to which subgroup W1 and subgroup W2 apply, are classified as follows:
 - (i) class A: avionic equipment;
 - (ii) class E: electrical equipment;
 - (iii) class I: instrument equipment;
 - (iv) class PS: pitot & static systems

(c) Group X Endorsement - instruments, avionics and equipment are endorsed in the following subgroups and classes:

- (aa) subgroup X1 = removal, refitting, installation, repair, overhaul and inspections, holders of a TAP1 with Group B and/or Group D endorsements, or
- (bb) subgroup X2 = removal refitting, installation and inspections, holders of a TAP1 with Group A and C endorsement, or
- (cc) subgroup X3 = removal and refitting, holders of a TAP2 with an Group A and C endorsement.
- (dd) The instruments, avionics and equipment to which subgroups: X1, X2 and X3 apply, are classified as follows:
 - (i) class 1: compasses;
 - (ii) class 2: engine ignition equipment;
 - (iii) class 3: all instruments, including electrically operated instruments;
 - (iv) class 4: electrical equipment;
 - (v) class 5: automatic pilots; or
 - (vi) class 6: all avionic equipment, including equipment employing pulse techniques
 - (vii) class 7: pitot and static systems

(d) Group P Endorsement- propellers

(aa) subgroup P1= removal, refitting, installation, repair, overhaul and inspections, holders of a TAP1 with B and/or endorsement, or

(bb) subgroup P2= removal, refitting and inspections, holders of a TAP1 with A and C endorsement

(dd) subgroup P3= removal and refitting, holders of a TAP2 with an A and C endorsement.

(ee) The propellers to which subgroups: P1, P2 and P3 apply, are classified as follows:

- (i) Class A: fixed pitch propellers of metal construction
- (ii) Class B: fixed pitch propellers of composite construction
- (iii) Class C: fixed pitch propellers of wooden construction
- (iv) Class D: variable pitch ground adjustable propellers of metal construction
- (v) Class E: variable pitch ground adjustable propellers of composite construction
- (vi) Class F: variable pitch ground adjustable propellers of wooden construction
- (vii) Class G: all in flight adjustable variable pitch propellers
- (viii) Class H: all constant speed propellers and constant speed units

(e) Group E Endorsements- Rotors and Rotor hub assemblies

(aa) subgroup E1= removal, refitting, installation, repair, overhaul and inspections, holders of a TAP1 with Group B and/or Group D endorsement, or

(bb) subgroup E2= removal, refitting and inspections, holders of a TAP1 with A and C endorsement, or

(cc) subgroup E3= removal and refitting, holders of a TAP 2 with an A and C endorsement.

(ee) The Rotors and Rotor hub assemblies to which subgroups: E1, E2 and E3 apply, are classified as follows:

- (i) Class G1: Gyrocopter
- (ii) Class H2: Helicopter

(f) Group S Endorsement- welding

(aa) subgroup S1 = welding and inspections on welding as listed in sub paragraph (cc), holders of a TAP1.

(bb) subgroup S2 = welding as listed in sub paragraph (cc), holders of a TAP 2.

(cc) The kinds of welding and inspections on welding to which subgroups: S1, and S2 apply, are classified as follows

- (i) Class A: GMAW / MIG / MAG - CO2 welding
 - (ii) Class B: GTAW / TIG welding - Argon welding
 - (iii) Class C: FCAW - Flux cored welding
- (dd) Endorsed as applicable in the following sub classes of materials
- (i) sub-class 1: Aluminium frames or structures, or
 - (ii) sub-class 2: Steel frames or structures.

Currency

56.01.7 (1) A technical approved person certificate expires if its holder does not maintain currency by complying with the appropriate requirements prescribed in Part 56.02.8(1)(b).

(2) In the case where such certificate has expired, a TAP shall not exercise the privileges granted by the approval and endorsements.

(3) Where the TAP certificate has expired as provided for in regulation 56.02.9(1)(c), due to its holder's failure to maintain currency, the TAP shall apply, as for an initial application, to the designated administrative authority for approval as provided for in Regulation 56.02.5.

Consumption of alcohol and drugs

56.01.8 No technical approved person shall exercise the privileges approved in terms of their approval to carry out maintenance or any other work on an aircraft, its components or equipment:

- (a) while the concentration of alcohol in any specimen of blood taken from any part of their body is more than 0.02 gram per 100 millilitres, or when under the influence of any drug having a narcotic effect; or
- (b) consume alcohol or take any drug having a narcotic effect whilst carrying out maintenance on an aircraft, its components or equipment.

Language

56.01.9 A technical approved person shall have sufficient ability in reading, writing, speaking and understanding the English language to enable them to adequately carry out their responsibilities as a technical approved person.

Register of technical approved persons

56.01.10 (1) The designated administrative authority shall maintain a register of all technical approved person certificates issued, renewed or reissued in terms of this Part.

(2) The register shall contain the following particulars –

- (a) the full name of the holder of the certificate;
- (b) full identification or passport number;
- (c) the physical and postal address of the holder of the certificate;
- (d) the date on which the certificate was issued, renewed or reissued;
- (e) particulars of the qualifications, experience and endorsements held by the certificate holder;
- (f) details of the physical place where work is performed as applicable; and
- (g) the nationality of the holder of the certificate.

(3) The particulars referred to in regulation 56.01.10(2) shall be recorded in the register within thirty days from the date on which the certificate is issued, renewed or reissued.

(4) The register shall be kept at a safe place at the office of the designated administrative authority.

Responsibilities of certificate holder

56.01.11

(1) The holder of a technical approved person certificate shall maintain an up to date record of experience in the logbook prescribed in 56.01.13, in which they shall record details of all maintenance, repairs, modifications, overhauls and inspections carried out.

(2) The holder of a technical approved person certificate shall at all times comply with the rules and code of ethics referred to in document SA-CATS 56.

Training Facilities

56.01.12

Training as required by this Part shall only be provided by the holder of an approved training facility approved in terms of Part 51, 55, 58, 141, 145 and Part 148.

Logbooks

56.01.13

(1) Any person presenting or undergoing training under the TAP program, or a holder of a TAP certificate shall maintain a logbook and shall record therein details of all training and/or work carried out on an aircraft and its components.

(2) The format of, and the information to be contained in, the logbook referred to in 56.01.11(1) and the manner in which such logbook shall be maintained, are as prescribed in Document SA-CATS 56.

(3) No alterations of a logbook shall be made.

Failure to maintain minimum standards

56.01.14

(1)(a) If the designated administrative authority suspects that a TAP, approved in terms of this Part, has failed to maintain the minimum standard required to exercise the privileges of the technical approved person certificate or any of the endorsements the reflected thereon, the designated administrative authority must give the TAP certificate holder a reasonable written notice of such suspicion.

(b)The designated administrative authority may then require the TAP to undergo remedial training, including a re-write all of or some of the theoretical knowledge examinations, or to again undergo all or some of the practical examinations with a designated examiner prescribed in this Part in respect of such approval by a specified date.

(2) Should the remedial training or examinations, show that the standard of the TAP is below that required for the certificate concerned, the designated administrative authority shall suspend the certificate holder from exercising all or any of the privileges of that approval until such time as the holder can show that he or she is able to meet the experience, practical skills, and theoretical knowledge requirements for that certificate.

(3) If the TAP certificate holder who has been duly notified in terms of regulation 56.01.14(1) fails without reasonable cause to be present on the specified date to undergo the remedial training or examination prescribed, the standard of that TAP holder shall be deemed to be below that required for the certificate concerned and the provisions of regulation 56.01.14(2) shall apply.

(4) The holder of a lapsed or expired TAP certificate issued in terms of this Part, or where such holder may not exercise the privileges of his or her approval due to non-compliance with the currency requirement may, only for the purpose of renewing their TAP certificate, exercise the privileges of a TAP3 certificate.

(5) In the case that an imminent safety risk or hazard to persons or property exists or presents itself, the designated administrative authority shall summarily suspend the TAP certificate until the conclusion of a thorough investigation, or the appropriate remedial actions have been completed.

(6) In the case of any administrative action, the designated administrative authority shall apply the provisions contained in Part 185.

SUBPART 2: Requirements for the Issue Technical Approved Person Certificate and Endorsement

56.02.1 Requirements

(1) An applicant for the issuing of a technical approved person certificate in a specific category and with a specific endorsement shall—

(a) not be less than 18 years of age;

(b) have submitted documented evidence of the required practical work experience in accordance with the TAP program's manual of procedures, in the particular group,

class, category or type of aircraft, engines, airframes, components equipment and systems referred to in Subpart 1 of this regulation;

(c) have successfully completed the theoretical knowledge examinations referred to in regulation 56.02.3 as determined by the designated administrative authority; and

(2) An application for a TAP3 certificate shall be exempt from the provisions of (b) and (c) above.

(3) In the case of an AME applying for the issue of a TAP certificate, the following requirements shall apply:

(a) provide documented evidence of all recognised qualifications and AMO certified practical work experience in the particular categories, groups, classes, makes or types of aircraft, airframes, engines, components and equipment referred to in this regulation, that is being applied for, and

(b) have successfully completed the TAP air law examination and the TAP manual of procedure examination, as well as any other examination, if applicable, required by the designated administrative authority.

Training

56.02.2 (1) An applicant for the issuing of a TAP2 and TAP1 certificate shall have successfully attended an approved training program as prescribed in Document SA-CATS 56, presented by an approved NTCA maintenance facility, original equipment manufacturer or their agent as approved by the designated administrative authority, in the following categories, groups or classes:

(a) Group A, for airframes, or any combination of the airframes referred to in paragraph 56.1.6(1)(a);

(b) Group C, for engines or any combination of engines, referred to in paragraph 56.1.6(1)(b);

(c) Group W, for equipment or any combination of equipment, referred to in paragraph 56.1.6 (1)(c)(i);

(d) Group X, for instruments, avionics and equipment or any combination of , the instruments, avionics and equipment referred to in paragraph 56.1.6 (1)(c)(ii);

(e) Group P, for propellers or any combination of propellers, referred to in paragraph 56.1.6 (1)(c)(iii);

(f) Group E, for rotors and rotor hub assemblies or any combination of rotors and rotor hub assemblies referred to in paragraph 56.1.6(1)(c)(iv);

(g) Group S, for welding or any combination of the types of welding, referred to in paragraph 56.1.6 (1)(c)(v).

(2) An applicant for the issuing of a, TAP 1 certificate shall have successfully attended an approved training program as prescribed in Document SA-CATS 56, with an approved NTCA maintenance facility, original equipment manufacturer or their agent as approved by the designated administrative authority, towards an endorsement in the following categories:

(a) Group B, for aeroplanes, or any combination of aeroplanes, referred to in paragraph 56.1.6 (1)(a);

(b) Group D, for engines or any combination of engines, referred to in paragraph 56.1.6(1)(b).

Theoretical knowledge examination

56.02.3 The applicant for a TAP certificate and any of the categories, groups or class endorsements shall have successfully passed the online examinations referred to in documents SA-CATS 56

(1) (a) An applicant who fails the online examinations may apply for a remark within 10 working days of failing such examination.

(b) If the remark is successful, the fee will be refunded;

(c) If the remark is not successful, the candidate may apply in writing to be entered for a re-examination sitting after the prescribed time limits in regulation 56.02.3(2) below have elapsed.

(2) The pass mark for any written technical approved person examination is 75%. A candidate who fails with a mark –

(a) of equal to or more than 70% and but less than 74%, may apply in writing to be entered for an exam sitting after 30 days from the date of receiving the examination results,

(b) of equal to or more than 65% and but less than 69%, may apply in writing to be entered for an exam sitting after 3 months from the date of receiving the examination results,

(c) of equal to or more than 60% and but less than 64%, may apply in writing to be entered for an exam sitting after 6 months from the date of receiving the examination results,

(d) of equal to or more than 55% and but less than 59%, may apply in writing to be entered for an exam sitting after 9 months from the date of receiving the examination results,

(e) of less than 55%, may apply in writing to be entered for an exam sitting after 12 months;

(f) A candidate who fails their second attempt, and shows no improvement on

the previous attempt, may apply in writing to be entered for an exam sitting after 12 months.

- (3) The contents of the online examination shall be determined and reviewed by the designated administrative authority.
- (4) TAP examinations are conducted on the online examination system presented by the designated administrative authority.
- (5) An applicant whose application to be entered for an exam sitting is approved, shall be required to answer, in an online examination, questions to demonstrate their knowledge of the categories, groups, and classes for which they are applying.
- (6) In the case of make or type by name endorsements, the applicant shall be required to pass an examination to demonstrate their knowledge with special emphasis on the makes and type for which they are applying.
- (7) In the case of a special or unusual application, or where no pre-determined syllabus or online examination is available for a category, group, class, make or type by name, the designated administrative authority may conduct a special theoretical and practical examination by way of specialist instructors or examiners to determine the knowledge, experience and competence of the applicant.

Experience

56.02.4 An applicant for the issuing of a TAP certificate shall:

- (a) be the primary builder of, and having completed the major portion of a build, assembly or restoration, and obtained an authority to fly for their own aircraft; or
- (b) have completed the practical training and gained the experience required at an approved NTCA maintenance facility or under direct supervision of a holder of a TAP instructor certificate, as provided for in Document SA-CATS 56; or
- (c) have obtained a recognised technical qualification, together with proven aircraft maintenance training and experience compatible with the particular endorsement prescribed in this regulation at an approved NTCA maintenance facility, AMO, an approved original aircraft manufacturer, or an approved original equipment manufacturer, or any other organisation acceptable to the designated administrative authority.

Application for approval or amendment

56.02.5 (1) An application for the approval and issuing of a technical approved person certificate or for an amendment thereof, shall –

- (a) be made on the appropriate form as prescribed by the designated administrative authority, and
- (b) be accompanied by :

- (i) original or certified proof of :
 - (aa) the identity document of the applicant; and
 - (bb) experience documented in the prescribed maintenance logbook detailing the record of experience in all applicable categories groups, classes, and types together with annual summaries thereof; and
 - (cc) all relevant qualifications attained; and
 - (dd) if applicable, in the case of an owner builder that has completed their own build project and obtained an ATF for the same project as the build number issued in terms of Part 24, such applicant may be issued with a TAP4 certificate for that specific aircraft.
 - (ii) original or certified proof that the applicant has:
 - (aa) obtained the appropriate knowledge and practical experience through the approved training programs prescribed in regulation 56.02.2; and
 - (bb) passed the applicable theoretical knowledge examinations referred to in regulation 56.02.3; and
 - (iii) any further documentation or material that may be required as may be determined by the designated administrative authority, in order to determine the competence of the applicant before issuing a TAP certificate.
 - (iv) two recent passport-size photographs of the applicant; and
 - (v) the appropriate application fee as prescribed in Part 187, and
 - (vi) once approved, the hourly administration fee, if applicable, as prescribed in Part 187.
- (2) Application for a special approval of a first of type issue, amendment or addition of a certificate with an endorsement on newly registered aircraft shall be made to the designated administrative authority, and accompanied by an original letter from the manufacturer stating that the applicant has successfully attended a manufacturer's training course and passed an approved examination, approved by the manufacturer together with the designated administrative authority.

Issuing of certificate

56.02.6 (1) The designated administrative authority, shall issue a technical approved person certificate with the appropriate endorsement if the applicant complies with the requirements referred to in regulation 56.02.5.

(2) The certificate shall be issued on the prescribed form.

- (3) The certificate shall specify the endorsement for the categories, groups and classes of the
aircraft, their engines, components and equipment, and if applicable the makes or types
by name of non-type certified aircraft, in respect of which the holder of such certificate is entitled to
exercise the privileges thereof.
- (4) Upon receipt of a technical approved person certificate, the applicant shall forthwith affix their signature in black ink in the space on the certificate provided for such purpose.
- (5) The designated administrative authority may at any time request further information as considered appropriate in order to support an applicant's experience, knowledge or qualifications prior to the issue of a TAP certificate.

Period of validity

56.02.7 (1) A technical approved person certificate issued in accordance with this Subpart shall be valid for a period not exceeding 24 months, calculated from the date on which the approval is issued or from the date of renewal of the approval if such approval is renewed in accordance with the provisions of regulation 56.02.8.

- (2) Any amendment of a technical approved person certificate shall be valid for the period for which the
certificate is valid.

Renewal of approved person certificate

56.02.8 (1) To renew a technical approved person certificate, the holder thereof shall:

- (a) within the 12 months preceding the date of expiry of the TAP certificate, have carried out maintenance, inspections or repairs in accordance with the TAP approvals and endorsements on at least four aircraft within the endorsed categories, groups, classes, makes or types, except in the case of an owner builder who may only perform maintenance or repairs on their own aircraft in terms of their TAP4 approval.
- (b) within the 30 days immediately preceding the date of expiry of such certificate, submit an application for renewal accompanied by:
- (i) a certified copy of the TAP certificate held by the applicant;
 - (ii) an original or certified record of experience contained in their logbook as proof of compliance with the provisions of regulation 56.02.8(1);
 - (iv) where applicable, an original or certified proof of having attended approved continuous or refresher training programs required for the categories, group(s), class(es) or of endorsements held and being renewed.
 - (v) proof of compliance with the technical approved person programme's manual of procedures.

(vi) the appropriate application fee as prescribed in Part 187.

(2) The application for the renewal of the certificate shall be made on the prescribed form.

(3) The designated administrative authority shall renew the certificate if the applicant complies with the requirements referred to in regulation 56.02.8(1).

(4) The certificate shall be renewed on the appropriate form as prescribed by the appropriate administrative authority.

Reissue

56.02.9 (1) (a) The holder of a technical approved person certificate that has expired due to the lapse of the period referred to in regulation 56.02.7 may apply to the designated administrative authority for the re-issue of the expired certificate.

(b) In the case where the certificate has expired for a period not exceeding 2 years, the applicant shall, in addition to rewriting the airlaw examination, comply with the requirements prescribed regulation 56.02.8;

(c) In the case where the certificate has expired for a period exceeding 2 years, the applicant shall, in addition to rewriting the airlaw examination, comply with the requirements prescribed in regulation 56.02.5. or as determined by the appropriate authority following a confirmation of knowledge with a TAP DE;

(2) Upon application for the re-issue of the expired certificate, the designated administrative authority shall reissue such certificate if the applicant complies with the requirements prescribed in regulation 56.02.9(1).

(3) The provisions of regulations 56.02.5 and 56.02.6 shall apply with the necessary changes to an application referred to in regulation 56.02.9(1).

(4) the appropriate application fee as prescribed in Part 187.

56.02.10 Privileges and limitations

(1) The holder of a technical approved person certificate:

(a) shall not be competent to grant permission to the constructor, owner or operator to fly his or her aircraft for the purpose of carrying out proving or test flights for the purpose of fulfilling the requirements necessary for the issuing of a release to service.

(b) any inspection carried out by a TAP on a non-type certified aircraft in terms of regulation 24.01.8(3) shall be of a conditional nature in that the technical

approved person carrying out the inspection shall not be competent to guarantee the airworthiness of the aircraft;

(c) in the case where a technical approved person issues a release to service for a non-type certified aircraft they thereby confirm that they are satisfied that the aircraft, its engines, components and equipment are serviceable for flight and that all maintenance has been carried out and recorded in the aircraft's maintenance logbooks in accordance with the regulations and the aircraft's approved maintenance schedule;

(d) who wishes to carry out welding on a non-type certified aircraft shall be the holder of an appropriate welding certificate for the type of welding to be carried out. The certificate does not necessarily have to be for aircraft welding, but shall specify the type of welding, the equipment used and type of metals that the applicant is qualified to weld;

(e) may not perform any other work not approved in terms of, and not endorsed on the TAP certificate.

(2) (a) the holder of a TAP 3 certificate may, in accordance with the endorsements reflected on the TAP certificate, only, in order to gain the required knowledge and experience towards obtaining a TAP2 certificate, perform basic maintenance and repairs on NTCA and its components under direct instruction and supervision of the holder of a valid TAP instructor certificate approved for the purpose.

(b) the holder of a TAP3 certificate shall not:

(i) perform any basic maintenance or repairs on their own and without direct instruction and supervision by the approved instructor; or

(ii) certify the aircraft or engine maintenance logbooks; or

(iii) inspect any maintenance or repairs on aircraft its engine components or equipment; or

(iv) perform any overhaul or modification work on an aircraft, its engine, components or equipment; or

(v) certify a release to service for any aircraft.

(3) (a) The holder of a valid TAP 2 group A endorsement, may in accordance with their TAP certificate:

(i) perform general maintenance and repairs in accordance with the endorsements and approvals, and

(ii) perform work which the maintenance schedule relating to the specified subgroup, make or type of aircraft endorsed on their TAP certificate requires; and

(iii) perform any adjustment of the specified category, subgroup, class, make or type of aircraft, including the installation or replacement of equipment and minor components of such aircraft, as approved, excluding its engine or engines.

(vii) certify in the aircraft logbook(s) the details of all maintenance or repair work performed,
stating when and where the maintenance or repairs took place and the outcome thereof;

(b) The holder of a TAP 2 group A endorsement shall not:

(i) perform any inspection, overhaul or modification work to an aircraft, its engine,
components or equipment; or

(ii) certify the release to service of the non-type certified aircraft following maintenance, repairs or an annual inspection for the purpose of the issue or renewal of an ATF.

(4) (a) The holder of a valid TAP 2 group C endorsement may in accordance with their TAP certificate:

(i) perform general maintenance on the subgroup of engine or engines in an aircraft; and

(ii) perform work which the maintenance schedule relating to the specified subgroup of engine or engines permits such holder to certify; and

(iii) perform any adjustment of the specified subgroup, make or type of engine or engines and the replacement of its external components; and

(iv) certify in the engine logbook(s) the maintenance work performed, stating when and where the maintenance or repairs took place and the outcome thereof.

(b) The holder of a TAP 2 group C endorsement shall not:

(i) perform any inspection, overhaul, or modification work to an aircraft, its engine components or equipment; or

(ii) certify the release to service of a non-type certified aircraft following maintenance, repairs or an annual inspection for the purpose of the issue or renewal of an ATF.

- (c) The holder of a valid TAP 2 with both a group A and C endorsement may in accordance with their TAP certificate:
- (i) complete and sign the aircraft maintenance logbooks detailing all work completed following regular and periodic maintenance or inspections, other than an annual inspection and for the purpose of an ATF issue or renewal, and provided that no snags or work was performed on components or equipment that requires a group W, X, P, E or S endorsement from the TAP.
- (d) The holder of a valid TAP 2 with a group W2 endorsement may in accordance with their TAP certificate:
- (i) remove and refit such equipment as approved in their group W endorsement.
- (ii) perform annual checks on pitot and static systems on non-type certified aircraft
- (e) The holder of a valid TAP 2 certificate with a group X3 endorsement may in accordance with their TAP certificate:
- (i) remove and refit such equipment as specified by their group X endorsement;
- (ii) perform annual checks on pitot and static systems on non-type certified aircraft.
- (f) The holder of a valid TAP 2 certificate with a group P3 endorsement may in accordance with their TAP certificate:
- (i) remove and refit such equipment as specified in their group P endorsement.
- (g) The holder of a valid TAP 2 with a group E3 endorsement may in accordance with their TAP certificate:
- (i) remove and refit such equipment as specified by their group E endorsement.
- (h) The holder of a valid TAP 2 with a group S2 endorsement may in accordance with their TAP certificate:
- (i) perform welding as specified by their group S endorsement
- (5) the holder of a valid TAP 1 certificate with an A and C endorsement, may in accordance with their TAP approval perform, and shall certify, in the aircraft maintenance logbook:
- (a) all maintenance, repairs and inspections carried out on the aircraft;

- (b) all such maintenance, repairs, and inspections, in accordance with the requirements prescribed in Part 24 and Part 44, on a non-type certified aircraft, its components and equipment, and as may be required by a TAP 2, or the constructor or owner of the non-type certified aircraft;
 - (c) the details of all maintenance or repair work performed, stating when and where it was performed, and the outcome thereof;
 - (d) certify the release to service of a non-type certified aircraft, in accordance with Part 24,
 - (e) complete and certify all applicable documents.
 - (f) perform inspections on non-type certified aircraft for the purpose of a release to service and annual inspections and for the issue or renewal of an authority to fly permit.
 - (g) oversight and inspections, as may be required by the designated administrative authority, on a non-type certified aircraft in accordance with the requirements prescribed in Parts 24, 44, 94, 96 and 115 as applicable.
- (6) The holder of a valid TAP 1 certificate with a group X2 endorsement, may in accordance with their TAP certificate perform and certify, in the aircraft maintenance logbook: the removal refitting, installation, inspections;
- (a) and compass swing of the specified compasses;
 - (b) of the specified engine ignition equipment, and replacements thereof;
 - (c) of the specified instruments;
 - (d) of the specified electrical equipment, and replacements thereof;
 - (e) of automatic pilots other than automatic pilots which operate on electronic principles;
 - (f) of electronic automatic pilots;
 - (g) of the specified avionic equipment and replacements thereof; and
 - (h) including annual checks of pitot and static systems, and replacements thereof;
- (7) The holder of a valid TAP 1 with a group P2 endorsement, may in accordance with their TAP certificate perform, and shall certify, in the aircraft maintenance logbook:
- (a) the removal, refitting and inspections of propellers, and replacement thereof as specified by the applicable endorsement;
- (8) The holder of a valid TAP 1 with a group E2 endorsement, may in accordance with their TAP certificate perform, and shall certify, in the aircraft maintenance logbook:
- (a) the removal, refitting and inspections of rotors, and rotor hub assemblies and replacement thereof as specified by the applicable endorsement in:
 - (i) Sub class G1, or

(ii) Sub class H1;

(9) The holder of a valid TAP 1 with a group S1 endorsement, may in accordance with their TAP certificate perform and certify, in the aircraft maintenance logbook:

(i) the carrying out of the specified welding and inspections on welding in the applicable classes and sub classes as specified in Regulation 56.02.3(8).

(10) The holder of a valid TAP 1 with a group B endorsement may in accordance with its TAP certificate perform and shall certify in the aircraft maintenance logbook:

(a) all modifications carried out on the aircraft in accordance with regulation 44.01.11; and

(b) all maintenance, repairs, inspections, overhauls or modifications, including trimming, spray painting, electroplating or machining, of the specified type of aeroplane or rotorcraft, excluding its engine or engines, except:

(i) the overhaul, repair, inspection or modification of such item, equipment or component, which may be required only to be inspected and shall be certified by the holder of a group X1 endorsement; and

(ii) the installation, inspection and testing of such instrument, electrical equipment or radio apparatus, which may be required only to be inspected and shall be certified by the holder of a group W1 endorsement.

(c) the manufacturing or replacement of structures, components and parts, if the manufacturing or replacement of the structures, components and parts is necessary for such holder to complete an overhaul, repair or modification which he or she shall certify in the airframe logbook.

(11) The holder of a valid TAP 1 with a group D endorsement, may in accordance with their TAP certificate perform, and shall certify, in the aircraft maintenance logbook:

(a) all modifications carried out on the aircraft in accordance with regulation 44.01.11;

(b) all maintenance, repairs, inspections, overhauls, or modifications of the specified group or type of engine or engines, except the overhaul, repair or modification of the ignition equipment, and of the propeller, starter and generator, which shall be inspected and certified in the engine logbook by the holder of a group X1 endorsement; and

(b) the manufacturing or replacement of components and parts, if the manufacturing or replacement of the components and parts is necessary for such holder to complete an overhaul, repair or modification.

(12) The holder of a valid TAP 1 with a group W1 endorsement may, in accordance with their TAP certificate perform, and shall certify, in the aircraft maintenance logbook:

(a) all removal, refitting, and inspections of such equipment;

- (b) all work performed in accordance with the maintenance schedule relating to the specified type of equipment;
- (c) any installation of such equipment in an aircraft and the replacement of components of such equipment: Provided that no equipment shall be dismantled for the purpose of making internal replacements.

(13) The holder of a valid TAP 1 with a group X1 endorsement may, in accordance with their TAP certificate perform, and shall certify, in the aircraft maintenance logbook removal, refitting, installation, repair, overhaul and inspections:

- (a) including a compass swing of the specified compasses;
- (b) of the specified engine ignition equipment, and replacements thereof;
- (c) of the specified instruments;
- (e) of the specified electrical equipment, and replacements thereof;
- (f) of automatic pilots other than automatic pilots which operate on electronic principles;
- (g) of in-flight adjustment of electronic automatic pilots;
- (h) of the specified avionic equipment, and replacements thereof; and
- (i) including annual checks of pitot and static systems, and replacements thereof;

(14) The holder of a valid TAP 1 with a group P1 endorsement, may in accordance with their TAP certificate perform, and shall certify, in the aircraft maintenance logbook:

- (a) the removal, refitting, installation, repair, overhaul and inspections of propellers, and replacements thereof as approved in the applicable classes;

(15) The holder of a valid TAP 1 with a group E1 endorsement, may in accordance with their TAP certificate perform, and shall certify, in the logbook:

- (a) the removal, refitting, installation, repair, overhaul and inspections rotors, and rotor hub assemblies and replacements thereof as approved in the applicable G1 or H1 classes;

(16) The holder of a valid TAP 1 with a group S1 endorsement, may in accordance with their TAP certificate perform, and shall certify, in the logbook:

- (i) the carrying out of the specified welding and inspections on welding as approved in the applicable classes and sub classes.

SUBPART 3: TECHNICAL APPROVED PERSONS INSTRUCTOR ENDORSEMENTS (TAPI)

Requirements for TAP instructor endorsement

56.03.1 (1) An applicant for the issuing of a TAP instructor endorsement shall –

- (a) be not less than 21 years of age;

- (b) hold a valid technical approved persons TAP 1 certificate;
 - (c) hold at least one valid endorsement; Provided that, where the applicant is the holder of a group B or D endorsement for a particular subgroup, make or type of an aircraft or engine, the applicant shall also be the holder of both group A and C endorsements, for that category, group, class, make or type of aircraft or engine as applicable;
 - (d) have successfully completed the training referred to in regulation 56.03.2;
 - (e) have passed the theoretical knowledge examination referred to in regulation 56.03.3; and
 - (f) have acquired the experience referred to in regulation 56.03.4.
- (2) Notwithstanding (c) above technical approved persons who work on gliders only will be exempt from the requirement for a Category C endorsement for purposes of applying for a TAP instructor endorsement.

Training

56.03.2 An applicant for the issuing of a TAP instructor endorsement shall have successfully completed an approved training program as provided in document SA-CATS 56 presented by a recognised approved NTCA maintenance facility, original equipment manufacturer or their agent as approved by the designated administrative authority, in the categories groups, classes, as endorsed on the TAP 1 certificate.

Theoretical knowledge examination

56.03.3

- (1) An applicant for the issuing of a TAP instructor endorsement shall have passed the applicable written examinations as provided in Document SA-CATS 56.
- (2) (a) An applicant, who fails the online examinations referred to in regulation 56.03.3(1) may apply for a remark to the designated administrative authority, as provided for in the technical approved persons' manual of procedures, subject to payment of the appropriate fee prescribed in Part 187.
 - (b) If the remark is successful, the fee will be refunded;
 - (c) If the remark is not successful, the candidate may apply in writing to be entered for a re-examination sitting after the prescribed time limits in Regulation 56.02.3(10) above have elapsed.

Experience

56.03.4 An applicant for the issuing of a TAP instructor endorsement shall comply with the requirements for the appropriate experience as provided in Document SA-CATS 56.

Application for instructor endorsement

56.03.5

- (1) An application for the issuing of TAP instructor endorsement shall be made to the designated administrative authority on the prescribed form.

(2) The application referred to in regulation 56.03.5(1) shall be accompanied by:

(a) in the case of a TAP instructor endorsement:

(i) original or certified proof of –

(aa) the identity document of the applicant;

(bb) compliance with the requirements referred to in regulation 56.03.1(d), (e) and (f); and

(cc) the applicant's competency to exercise the privileges referred to in regulation 56.03.8;

(dd) the full aircraft maintenance and overhaul record of experience of the applicant; and

(ee) that the applicant has passed the theoretical knowledge examinations referred to in regulation 56.03.3;

(ii) a certified copy of the TAP 1 certificate and all relevant qualifications held by the applicant; and

(iii) the appropriate fee as prescribed in Part 187;

(3) The grades of technical approved person instructor approvals that may be endorsed on TAP1 certificates are:

(i) a grade one TAP instructor who has held a TAP1 certificate with group B and/or D endorsement for an uninterrupted period of not less than 3 years in this category, and

(ii) a grade two TAP instructor who has held a TAP1 certificate with group A and C endorsements for an uninterrupted period of not less than 2 years in this category.

(iii) a TAP instructor for W, X, P, E and S groups shall be the holder of a TAP1 certificate endorsed with W1, X1, P1, E1 and S1 endorsements in the respective groups for an uninterrupted period of not less than 5 years.

Issuing of Technical Approved Person instructor endorsement

56.03.6 (1) The designated administrative authority shall issue a TAP instructor endorsement if the applicant complies with the requirements referred to in regulation 56.03.1

(2) The instructor endorsement shall be issued on the TAP certificate.

(3) The certificate shall specify the endorsement for the categories, groups and classes of the aircraft, engines, components and equipment, and where applicable the makes or types by name of non-type certified aircraft, its engines, components or equipment in respect of which the holder of such certificate is entitled to exercise the privileges thereof.

- (4) Upon receipt of a technical approved person certificate with an instructor endorsement, the applicant shall forthwith affix their signature in black ink in the space on the certificate provided for such purpose.
- (5) The designated administrative authority may at any time request further information as considered appropriate in order to support an applicant's experience, knowledge or qualifications prior to the issue of a TAP certificate.
- (6) The summary shall be in the format prescribed in Document SA-CATS 56 and be signed, certifying it to be a true reflection of their experience during the period summarised.

Period of validity

56.03.7 A technical approved person instructor endorsement shall be valid for the period for which the TAP certificate is valid.

Privileges of the holder of a TAP instructor endorsement

56.03.8 (1) The holder of a TAP instructor endorsement may exercise the following privileges—

- (a) provide theoretical and practical instruction to TAPs on any of the valid endorsements held by them; and
- (b) act as an examiner in any of the valid endorsements held by them, if approved by the designated administrative authority as the case may be.

Renewal of instructor endorsement

56.03.9 (1) To renew a TAP instructor endorsement, the holder thereof shall within the 24 months preceding the date of expiry of the endorsement have served for not less than 120 hours as a TAP instructor.

(2) An application for the renewal of a TAP instructor endorsement shall, within 30 days immediately preceding the date of expiry of such endorsement, be –

- (a) made to the designated administrative authority in the prescribed form; and
- (b) accompanied by –
- (aa) certified copy of the TAP I certificate held by the applicant;
- (bb) the appropriate fee as prescribed in Part 187; and
- (cc) an original or certified copy of proof of compliance with the provisions of regulation 56.03.9(1).

(3) The designated administrative authority shall renew the TAP I endorsement if the applicant complies with the requirements referred to in regulation 56.03.9(1) and (2).

(4) The endorsement shall be renewed in the prescribed form.

(5) The renewal of the endorsement shall be valid for the period for which the TAP certificate is valid.

SUBPART 4: TECHNICAL APPROVED PERSONS DESIGNATED EXAMINER (TAPDE)

Designation of TAP designated examiners

56.04.1

- (1) All persons considered for designation as TAP designated examiners shall be fit and proper persons, and comply with the requirements provided for in document SA-CATS 56 and any additional requirements required by the designated administrative authority.
- (2) The designated administrative authority may designate TAP designated examiners for a period not exceeding two years, to conduct, according to the privileges indicated by the valid endorsement or endorsements held by the examiner, oversight and inspections in respect to instructors, technical approved persons, approved facilities and aircraft on behalf of the designated administrative authority.
- (3) The privileges referred to in (1) shall be exercised and performed according to the conditions, rules, requirements, procedures or standards as provided for in the Technical Approved Persons manual of procedures.
- (4) The designated administrative authority shall sign and issue to each TAP designated examiner a document which shall state the full name of such examiner and contain a statement that –
 - (a) such examiner has been designated in terms of regulation 56.04.1(1); and
 - (b) such examiner is authorised to exercise the privileges referred to in regulation 56.04.1(1) and to perform the duties specified on the TAPDE certificate, only when explicitly instructed to perform such duties referred to in regulation 56.04.1(1) by the designated administrative authority.
- (5) The application to be considered for designation as referred to in regulation 56.04.1(1) shall be accompanied by:
 - (a) details of the certificate, approvals, endorsements and experience to which the application applies; and
 - (b) the appropriate fee as prescribed in Part 187.
- (6) The designated administrative authority shall conduct oversight over the activities of TAP designated examiners.

Re-designation as TAPDE

56.04.2

- (1) An application for renewal as a TAP designated examiner must be made on the prescribed form not less than 30 days prior to the date that the designation expires, together with the fee as prescribed in Part 187.
- (2) Submission of such application does not automatically entitle the applicant to continue to exercise the privileges of a TAPDE after the expiry date.

Register of TAPDEs

56.04.3 (1) The designated administrative authority shall maintain a register of all TAPDEs.

(2) The register referred to in regulation 56.04.3(1) shall contain the following details –

- (a) name;
- (b) category and privileges of the designation;
- (c) licences and endorsements held; and
- (d) expiry date.

MOTIVATION

Motivation to withdraw Part 66.4.

PART 66 deals with Aviation Maintenance Engineers in accordance with ICAO ANNEX 1: Personnel Licensing which includes maintenance technicians.

Part 66 sub-part 4 was developed to provide a set of basic guidelines for Approved Persons (APs) that work on Non-Type Certified Aircraft (NTCA) and included in Part 66 as there was no specific provision for AP's at the time.

NTCA and APs do not fall under the provisions of ICAO, whilst Part 66.4 provided a set of basic regulations for APs at the time; no further progress and improvement in AP regulations have been developed for a number of years. The NTCA industry has grown and evolved exponentially and the current regulation in subpart 4 of 66 is not sufficient to adequately deal with safety and standards for the training and approval of approved persons. It is proposed that sub-part 4 of Part 66 be withdrawn in its entirety and substituted with a new regulation specifically developed to provide improved standards and requirements for the training and approval of Technical Approved Persons to maintain South African Registered NTCA.

Motivation to Submit Part 56; Technical Approved Persons (TAPs) for inclusion in the SA-CARS.

The current SACAA regulations do not provide for the certification of TAPs.

RAASA together with industry participation has developed through the Project 24 Focus groups a series of new and amended regulations to improve standards and safety for the operation and maintenance of Non-Type Certified aircraft.

Part 56 follows many of the provisions for AME where practical and applicable, whilst providing a far more detailed and comprehensive set of standards and requirements for the training, approval, continuous learning and oversight of Technical approved Persons.

Part 56 specifically addresses the shortcomings and unique differences necessary to promote growth, skills development and job creation in the technical approved person environment whilst raising the quality and standards currently lacking in Part 66.4.

