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DCA (AIRCRAFT) NOTICES

**CERTIFICATION RESPONSIBILITIES OF LICENSED
AIRCRAFT MAINTENANCE ENGINEERS**

1. **GENERAL**

- 1.1 The certificates referred to in the Fifth Schedule to Part II Regulation 10 of the Malawi Aviation (Air Navigation) Regulations, 1970, are certificate of maintenance and certificates of compliance.
- 1.2 The form of the certificate of maintenance is specified in DCA (Aircraft) Notice No A5.
- 1.3 The form of the certificate of compliance is specified in DCA (Aircraft) Notice No. A5. When an approved Certificate is issued for the purposes of the Aviation (Air Navigation) Regulations, 1970 the certification thereon constitutes a certificate of compliance.
- 1.4 When the work involves a control system to which British Civil Airworthiness Requirements, Chapter A4-3, applies, any duplicate inspection required must be certified before the relevant certificate of compliance is issued.
 - 1.4.1. In connection with the issue of Certificate of Compliance, the following definitions apply:
 - 1.4.1.1 **Overhaul** - an overhaul is a major work operation which involves dismantling, bench testing and renewal of operational life. Servicing of items such as piston engine sparking plugs is not considered to constitute overhaul; neither is "Top overhaul" of a piston engine. The complete work concerned with renewal

of Certificate of Airworthiness does not necessarily constitute overhaul and each work operation must be considered individually. Whenever doubt exists reference should be made to the Director.

1.4.1.2 Maintenance - any one or the combination of overhaul, repairs, inspection, replacement, modification or defect rectification of an aircraft/aircraft component.

1.4.1.3 Modification - a modification is any work which is identified by a modification reference, a modification number, or in the case of foreign built aircraft, by an equivalent identification system.

1.4.1.4 Replacement - a replacement is a work operation which involves the removal and replacement of the same part or the substitution of another similar part. The opening and closing of inspection covers, access hatches exits, cowlings, etc, is not considered to constitute replacement.

1.4.1.5 Repair - a repair is any work relating to rectification which does not come under one of the above headings.

1.4.1.6 Inspection - the physical act of inspecting is part of any work which constitutes overhaul, modification, replacement or repair and such inspection is covered by the certification required for the work.

1.5 The primary duty of all persons to whom this Notice applies is to ensure that the items for which they are responsible are in an airworthy condition.

1.6 Although many terms in common usage describes the various aspects of aircraft engineering the meanings assigned to such terms are not always the same. For the purpose of the Notice, in relation to the

maintenance of Airworthiness, all aspects of the matter are considered to be covered by the following terms:-

- Condition - the physical state of an item.
- Assembly - that items are put together, fitted, assembled, attached, installed, connected, secured or adjusted correctly in the manner prescribed.
- Functioning - correct operation in the manner prescribed.

- 1.7 Whenever work is carried out on an aircraft, it is the duty of all persons to whom this Notice applies to consider the effect such work may have, directly or indirectly, on items which are the responsibility occurs, the person primarily responsible for the item must call in other appropriately responsible person (s); to be able to do this, every person to whom this Notice applies must be conversant with all the relevant paragraphs of this Notice since certificates of compliance must be issued by all persons concerned, each assuming responsibility.
- 1.8 The allocation and extent of the responsibilities of members of an Approved Inspection Organisation in connection with certificates of compliance are specified by the Chief Inspector according to the terms of approval granted by the D.C.A, Malawi.
- 1.9 Subject to the rating of the category of licence held, the responsibilities of licensed aircraft engineers in connection with certificates of compliance are specified in the relevant paragraphs of this Notice.

2. Aircraft Maintenance Engineers-Category 'A' – Aeroplanes

NOTE: *This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention must be paid to paragraph 1.7 which is connected with overlap 'A' is responsible for:-*

- 2.1 In connection with inspection, modifications, repairs and replacements, the engineer licensed in Category 'A' is responsible for:-

- i) Condition) of all parts of the aeroplane other than
- ii) Assembly) those shown in this Notice to be
- iii) Functioning) responsibility of engineers licensed in other categories.

2.2 The engineer licensed in Category 'A' is responsible in conjunction with other licensed engineers where stated in this Notice.

2.3. The engineer licensed in Category 'A' may issue certificates of compliance Relating to inspection, modification, repair and replacement of parts of the aeroplane for which he is responsible, provided that the work has not involved any of the following:-

2.3.1 Bolted joints requiring special techniques

2.3.2 Complete riveted joints in structures.

2.3.3 Complete glued joints structures

2.3.4 Reduxed and other bonded joints in structures

2.3.5 Welded and brazed joints

2.3.6 Fabric covering of a complete fuselage or aerofoil

The disturbing of individual parts of units which are supplied as bench tested units, except for the replacement or adjustment of items normally replaceable or adjustable in service where subsequent functioning may be proved without the use of test apparatus additional to the test apparatus used for normal functioning checks.

2.4 The engineer licensed in Category 'A' may also assume certain privileges of a Category 'X' Licence. The limitations in respect of these privileges as follows:-

2.4.1 Certificates of compliance may be issued in accordance with paragraph 8 of this notice for instrument systems in the

aeroplane (excluding instrument systems associated with engines).

EXCEPT THAT, in the case of aeroplanes listed in paragraph other than 5.1, and 5.3, of Notice No. A1, Certificates of compliance may be issued relating to **REPLACEMENTS ONLY**, provided that functioning checks prove serviceability to not require the use of test apparatus, and

EXCEPT THAT, in the case of aeroplanes indicated thus* in paragraph 5 of Notice No. A1 certificates of compliance **MAY NOT BE ISSUED**.

2.4.2 Certificates of compliance may be issued in accordance with paragraph 9 of this Notice for electrical systems in the aeroplane (excluding electrical systems associated with the engines).

EXCEPT THAT, in the case of aeroplanes listed in paragraph other than 5.1, 5.2 and 5.3 of Notice No. A1 certificates of compliance may be issued relation to **REPLACEMENTS ONLY**, provided that functioning checks to prove serviceability do not require the use of test apparatus, and

EXCEPT THAT, in the case of aeroplane indicated thus* in paragraph 5 of Notice A1, certificates of compliance **MAY NOT BE ISSUED**

2.4.3 Certificates of compliance may be issued in accordance with paragraph 7 of this Notice for direct reading compasses relating to **REPLACEMENT** of complete compass assembly **ONLY**, provided that the related adjustment and compensation is certified in accordance with Malawi Aviation (Air Navigation) Regulations, 1970.

2.4.4. Certificates of compliance may be issued in accordance with paragraph 10 of this Notice for automatic pilots relating to **REPLACEMENTS ONLY**, provided that functioning checks

to prove serviceability do not require the use of test apparatus, other than that used for normal functioning.

EXCEPT THAT, in the case of aeroplanes listed in paragraph other than 5.1, 5.2 and 5.3, of Notice A1, certificate of compliance **MAY NOT BE ISSUED.**

3. Aircraft Maintenance Engineers – Category ‘B’ – Aircraft Including Rotorcraft

Note: *This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention must be paid to paragraph 1.7 which is connected with the overlap of responsibility*

3.1. Category ‘B’ Aeroplane

3.1.1 The engineer licensed in Category ‘B’ may issue certificate of compliance relating to all aspects of inspection, overhaul, modification, repair and replacement of components and parts for which he is shown to be responsible in paragraph 2.1 as an engineer licensed in Category ‘A’ provided that the work does not involve the making of components and parts.

3.1.2 The engineer licensed in Category ‘B’ may also issue certificates of compliance relating to all aspects of inspection, overhaul, modification, repair and replacement, relating to items listed in paragraph 3.1.3. to 3.1.8 inclusive, provided that the work does not involve the making of components and parts.

3.1.3 Engine mounting structures and cowlings

3.1.4 Engine controls)

- | | | | | |
|-------|--|---|---|---|
| 3.1.5 | Engine fuel, oil and coolant systems |) |) | except for those parts which form part of or are attached to the engine |
| 3.1.6 | Engine fire extinguishing system |) |) | |
| 3.1.7 | Engine fluid de-icing systems |) |) | |
| 3.1.8 | Fixed pitch propellers, provided that the work has not involved dynamic balancing. | | | |

3.2. Category ‘B’ Rotorcraft

3.2.1 The engineer licensed in Category ‘B’ is entitled to extend the responsibilities he assumes as an engineer licensed in Category ‘A’ an ‘C’ as follows:

3.2.2 Certificates of compliance may be issued relating to all aspects of inspection, overhaul, modification, repair and replacement of component and parts for which he is shown to be responsible in paragraph 6.1. (excluding main rotor blades, engines, variable pitch propellers and propeller controllers) provided that the work does not involve the making of components and parts, and that all equipment, manuals, etc, required to certify the overhaul are available.

4. Aircraft Maintenance Engineers-Category ‘C’ – Engines

NOTE: *This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention must be paid to paragraph 1.7 which is concerned with overhaul or responsibility.*

4.1. In accordance with inspections, modifications, repairs and replacements, the engineer licensed in Category ‘C’ is responsible for:

- i) Condition) of the engine installation and all associated
- ii) Assembly) devices which are concerned with the
- iii) Functioning) operation of the engine as a propulsive unit other than those shown in this Notice to be the responsibility of engineers licensed in Category 'X'

- 4.2. The engineer licensed in Category 'C' is responsible in conjunction with other licensed engineers for devices related to the engine which are **NOT** concerned with the operation of the engine as a propulsive unit.
- 4.3. The engineer licensed in Category 'C' may issue certificates of compliance relating to inspection, modification, repair and replacement of components and parts from which he is responsible, provided that the work has not involved any of the following:-
 - 4.3.1 Dismantling of a piston engine other than to obtain access to the pistons.
 - 4.3.2 Dismantling of main casings and rotation assemblies of a turbine engine.
 - 4.3.3 The removal or dismantling of reduction gears except that, in the case of engines indicated thus* in paragraph 6 of DCA (Aircraft) Notice A1 reduction gears may be removed for the purpose of carrying out inspections after suspected shock loadings.
 - 4.3.4 Propeller balancing
 - 4.3.5 Welded or brazed joints
 - 4.3.6 The disturbing of individual parts of units which are supplied as bench tested units, except for the replacement or adjustment of times normally replaceable or adjustable in service where subsequent functioning may be proved without the use of test apparatus additional to the test apparatus used for normal functioning checks.

4.4. The engineer licensed in Category 'C' may also assume certain privileges of a Category 'X' licence. The limitations in respect of these privileges are as follows:-

4.4.1 Certificates of compliance may be issued in accordance with paragraph 8 of this Notice for instrument systems associated with the engines.

EXCEPT THAT, in the case engines installed in aeroplanes list in paragraphs other than 5.1, 5.2 and 5.3 of DCA Aircraft Notice No. A1, certificates of compliance may be issued relating to **REPLACEMENTS ONLY**, provided that functioning checks to prove serviceability do not require the use of test apparatus, and **EXCEPT THAT**, in the case of engines installed in aeroplanes indicated thus* in paragraph 5 of DCA (Aircraft) Notice A1, certificates of compliance **MAY NOT BE ISSUED**.

4.4.2 Certificates of compliance may be issued in accordance with paragraph 9 of this Notice for electrical systems associated with the engines.

EXCEPT THAT, in the case of engines installed in aeroplane listed in paragraph other than 5.1, 5.2 and 5.3 of Notice No A1 certificates of compliance may be issued relating to **REPLACEMENTS ONLY**, provided that functioning checks to prove serviceability do not require the use of test apparatus, and **EXCEPT THAT**, in case of engines installed in aeroplanes indicated thus* in paragraph 5 of Notice No. A1 certificates of compliance **MAY NOT BE ISSUED**

4.4.3 Certificates of compliance **MAY NOT BE ISSUED** for compasses or automatic pilots

5. Aircraft Maintenance Engineering- Category 'D' - Engines

NOTE: *This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention must be paid to paragraph 1.7 which is concern with overlap of responsibility.*

5.1 In connection with inspection, overhauls, modifications, repairs and replacements, the engineer licensed in Category 'D' is responsible for:-

- i) Condition) of the engine only
- ii) Assembly)
- iii) Functioning in so far as test bed performance is concerned
- vi) Functioning in so far as an) in conjunction with
installed engine is concerned) an engineer licensed in
Category 'C'

5.2 The engineer licensed in Category 'D' may issue certificates of compliance relating to all aspects of inspections, overhaul, modification, repair and replacement of components and parts of the engine only (excluding inspection, overhaul, modification and repair of ignition apparatus, instrument and electrical equipment) provided that the work does not involve the making of components and parts, and that all equipment, manuals, etc, required to certify the overhaul are available.

6. Aircraft Maintenance Engineers – Category 'A' and 'C' Rotorcraft

Note: *This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention must be paid to paragraph 1.7 which is concerned with overlap of responsibility.*

6.1 In connection with inspections, modifications, repairs and replacements, the engineer licensed in Category 'A' and 'C' is responsibly for:-

- i) Condition) of all parts of the rotorcraft
- ii) Assembly) other than those shown in this
- iii) Functioning) Notice to be the responsibility
of engineers licensed in other
categories.

6.2. The engineer licensed in category 'A' and 'C' is responsible in conjunction with other licensed engineers where stated in this Notice.

6.3 The engineer licensed in category 'A' and 'C' may issue certificates of compliance relating to inspection, modification, repair and replacement of parts of the rotorcraft for which he is responsible, provided that the work has not involved any of the following:-

6.3.1 Bolted points requiring special techniques

6.3.2 Complete riveted points in structures

6.3.3 Complete glued joints in structure

6.3.4 Reduced and other bonded joints in structures

6.3.5 Welded and brazed joints

6.3.6 Fabric covering of an engine fuselage of aerofoil

6.3.7 Dismantling of piston engine other than to obtain access to the pistons

6.3.8 Dismantling of main casings and rotation assemblies of a turbine engine

6.3.9 Dismantling of transmission gearbox casings other than to obtain access for internal inspection.

6.3.10 Propeller balancing

6.3.11 The disturbing of individual parts of units which are supplied as bench tested units or of major components of transmission systems, except for the replacement or adjustment of items normally replaceable or adjustable in service where subsequent functioning may be proved without the use of test apparatus

additional to the test apparatus used for normal functioning checks.

- 6.4 The engineer licensed in Category ‘A’ and ‘C’ may also assume certain privileges of a Category ‘X’ licence. The limitations in respect of these privileges are as follows:-

- 6.4.1. Certificates of compliance may be issued in accordance with paragraph 8 of this Notice for instrument systems in the rotorcraft.

EXCEPT THAT, in the case of rotorcraft listed in paragraphs other than 7.1, 7.2 and 7.3 of Notice No. A1, certificates of compliance may be issued relating to **REPLACEMENTS ONLY, provided** that functioning checks to prove serviceability do not require the use of test apparatus.

- 6.4.2 Certificates of compliance may be issued in accordance with paragraph 9 of this Notice for electrical systems in the rotorcraft,

EXCEPT THAT, in the case of rotorcraft listed in paragraph other than 7.1, 7.2 and 7.3 of Notice No. A1, certificates of compliance may be issue relating to **REPLACEMENT ONLY**, provided that functioning checks to prove serviceability do not require the use of test apparatus.

- 6.4.3 Certificates of compliance may be issued in accordance with paragraph 7 of Notice for direct reading compasses relating to **REPLACEMENT** of the complete compass assembly **ONLY**, provided that the related adjustments and compensation is certified in accordance with Malawi Aviation (Air Navigation) Regulations, 1970.

- 6.4.3 Certificates of compliance **MAY NOT BE ISSUED** for Automatic Pilots

7. Aircraft Maintenance Engineers – Category ‘X’ – Compasses

NOTE: *This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention must be paid to paragraph 1.7 which is concerned with overlap of responsibility.*

7.1. In connection with inspections, modifications, repairs and replacements, the engineer licensed in Category ‘X’ Compasses is responsible for:-

i) Condition) of all parts of the Compass

ii) Assembly (except as specified below)

Assembly in so far as aircraft main) of all component parts of
Electrical power supply (if any) is) the compass in conjunction
concerned) with an engineer licensed
) in Category ‘X’ Electrical

Assembly in so far as connection to) in conjunction with the
other systems is concerned.) licensed engineer
) responsible for the system
concerned.

iii) Functioning (except as specified below) of all parts of the
compass.

Functioning in so far as effect) in conjunction with the
on other systems is concerned.) licensed engineer
) responsible for the system
concerned.

7.2 The engineer licensed in Category ‘X’ – Compasses – may issue certificates of compliance relating to inspect, modification, repair and replacement of components and parts for which he is responsible, provided that units which are supplied as bench tested units may not have their individual parts disturbed except for the replacement or adjustment of times normally replaceable or adjustable in service and that functioning checks to prove serviceability do not require the use of test apparatus other than that used for normal functioning checks.

8. Aircraft maintenance Engineers – Category ‘X’ – Instruments

NOTE: *This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention must be paid on paragraph 1.7 which is concerned with the overlap of responsibility.*

8.1. In connection with inspections, modifications, repairs and replacements, the engineer licensed in Category ‘X’ - Instruments – is responsible for:-

- i) Condition) of all parts of the aircraft
) and engine instrument systems.
- ii) Assembly (except) of all component parts
as specified below) of the aircrafts and engine
) instrument systems.

Assembly in so far) in conjunction with an
as aircraft main) engineer licensed in
electrical supply) Category ‘X’ electrical.
(if any) is concerned)
- iii) Functioning

8.2 The engineer licensed in Category ‘X’ – Instruments – may issue certificates of compliance relating to inspection, modification, repair and replacement of components and parts for which he is responsible, provided that units which are supplied as bench tested units may not have their individual parts disturbed except for the replacement or adjustment of items normally replaceable or adjustable in service and that functioning checks to prove serviceability to not require the use of test apparatus other than that used for normal functioning checks.

9. Aircraft Maintenance Engineers – Category ‘X’ Category ‘X’ – electrical

NOTE: The paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention must be paid to paragraph 1.7 which is concerned with overlap of responsibility.

9.1 In connection with inspections, modifications, repairs and replacements, the engineer licensed in Category 'X' – electrical – is responsible for:-

- i) Condition) of all parts of the electrical systems.
)
- ii) Assembly (except) of all component parts of the
as specified below) electrical systems.

Assembly in so far) in conjunction with the licensed
as connection to) engineer responsible for the
mechanical drives) systems concerned
or to other systems)
is concerned.
- iii) Functioning (except) of all parts electrical
as specified below)) system.

Functioning in so far) in conjunction with the licensed
as effect on other) engineer responsible for the
systems is concerned) system concerned.

9.2 The engineer licensed in category 'X' – electrical – may issue certificates of compliance relating to inspection, modification, repair and replacement of components and parts for which he is responsible, provided that units which are supplied as bench tested units may not have their individual parts disturbed except for the replacement or adjustment of items normally replaceable or adjustable in service and that functioning checks to prove serviceability do not require the use of test apparatus other than used for normal functioning checks.

10. Aircraft Maintenance Engineers – Category 'X' – Automatic Pilots

NOTE: This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention must be paid to paragraph 1.7 which is concerned with overlap of responsibility.

10.1 In connection with inspections, modifications, repairs and replacements, the engineer licensed in Category 'X' – Automatic Pilots – is responsible for:-

- i) Condition) of all parts of the automatic
) pilot

- ii) Assembly (except as) of all components parts of the
specified below) automatic pilot.

Assembly in so far as) in conjunction with an engineer
aircraft main electrical) licensed in Category 'X'
power supply (if any)) electrical.
is concerned.

- iii) Assembly in so far as) in conjunction with the licensed
connection to a control) engineer responsible for the
system or other) system concerned
systems is concerned)

- vi) Functioning (except as) of all parts of the automatic
specified below)) pilot.

Functioning in so far as) in conjunction with the licensed
effect on the systems) engineer responsible for the
is concerned) system concerned.

10.2 The engineer licensed in Category 'X' – Automatic pilots may issue certificates of compliance relating to inspection, modification, repair and replacement of the components and parts for which he is responsible provided that units which are supplied as bench tested units may not have their individual parts disturbed except for the replacement or adjustment or items normally replaceable or adjustable in service and that functioning checks to prove serviceability do not required the use of test apparatus other than that used for normal functioning.

11. Aircraft Maintenance Engineers – Multi – Category ‘X’ Licenses

In the case of an engineer who holds a multi-category ‘X’ licence in accordance with paragraph 10 of Notice A1, the provisions of the relevant paragraph of this Notice apply, UNLESS, in the case of a multi-category ‘X’ licence which covers compasses, the authority to certify work which involves the swinging and/or adjustment and compensation of the compasses is specifically excluded in the licence.

12. Aircraft Maintenance Engineers – Category ‘R’- Radio

NOTE: This paragraph must be read in conjunction with paragraph 1 of this Notice and particular attention must be paid to paragraph 1.7 which is concerned with overlap of responsibility.

12.1 In connection with inspections, modifications, repairs and replacements, the engineer licensed in category ‘R’ – Radio – is responsible for:-

- | | | | |
|-----|---------------------|---|------------------------------------|
| i) | Condition |) | of all parts of the aircraft radio |
| | |) | installation associated cables |
| | |) | and accessories. |
| ii) | Assembly (except |) | of all component parts of the |
| | as specified below) |) | aircraft radio installations. |