

AREA COUNCIL 28 JANUARY 2012

AGENDA ITEM 11

THE 'C' CERTIFICATE (GAS TURBINE)

The examination for a Gas Turbine 'C' Certificate may be taken on application to your Area Achievement Scheme Co-ordinator. The examination will be carried out by either one Area Chief Examiner and one Club Examiner, both of whom must be Fixed Wing qualified, or two Chief Examiners, one of whom must be Fixed Wing qualified.

To apply to take the Gas Turbine 'C' Certificate, the candidate must already hold the 'B' Certificate (Fixed Wing).

The applicant may use any type of gas turbine powered model capable of performing the manoeuvres set out in the following schedule. The Examiners may disallow the use of any model that they consider does not meet this specification. Reference to the appropriate Test Standards Booklet is very strongly recommended.

The applicant is not required to have built the model, but will be expected to demonstrate an understanding of both the structural, installation and control system requirements associated with this form of propulsion.

- (a) Carry out pre-flight checks as required by the BMFA safety Codes, including fail-safe operation.
- (b) Start up and Taxi out
- (c) Take off and join the circuit in appropriate direction for conditions
- (d) Perform a procedure turn to either left or right appropriate for conditions
- (e) Fly a figure of eight
- (f) Fly a rectangular or race track low level circuit - below 40 feet – in opposite direction to landing circuit
- (g) Fly a slow dirty pass, flaps extended and undercarriage deployed where appropriate, height below 30 feet
- (h) Fly one Inside loop into wind
- (i) Fly a landing circuit appropriate to type, the site and prevailing conditions, and go-round from below 10 feet, this is an aborted landing, not a low pass

(j) The candidate will then select and perform seven manoeuvres from the list below. The manoeuvres and the order in which they are flown must be agreed with the examiners prior to the test.

(1) Two Derry turns, one from each direction

(2) Reversal / Split S

(3) Cuban 8

(4) Fly Inverted straight and level for a minimum of 2 seconds at approximately 30 feet with a half roll to and from inverted.

(5) Wingover

(6) Knife edge pass, for a minimum of 2 seconds at approximately 30 feet, canopy towards pilot

(7) Four point roll

(8) Perform a slow roll in either direction

(9) Complete two consecutive rolls

(10) Complete one Immelmann turn

(k) Perform a landing circuit appropriate to type, the site and prevailing conditions

(l) Perform a landing, wheels to touch within 5m of a pre-set point

(m) Taxi back, stop and shutdown engine

(n) Complete post flight checks as required by the BMFA Safety Codes.

(o) The schedule must be completed in one flight. Exceptionally, at a pre-determined point in the flight, an intermediate landing may be permitted for the sole purpose of re-fuelling. This landing may only be made with the prior consent of the Examiners.

(p) Two examination attempts will be allowed in any one day.

(q) All manoeuvres must be carried out in front of the pilot.

(r) In addition to the above flying schedule, the applicant will be interviewed by the Examiners and must display a satisfactory depth of knowledge of model flying in general and, in particular, of safety matters based on the BMFA Safety Codes for Gas Turbines, General Flying and Model Flying Displays.