



MICROLIGHT AIRCRAFT TYPE RATING CHECK LIST

OPERATION OF AIRCRAFT SYSTEMS

The candidate will demonstrate a thorough understanding of all the aircraft systems:

- | | |
|---|--|
| <input type="checkbox"/> primary flight controls and trim | <input type="checkbox"/> propeller pitch adjustment if fitted |
| <input type="checkbox"/> electrical systems: layout and management | <input type="checkbox"/> flaps: layout and management |
| <input type="checkbox"/> avionics: purpose and location of all components | <input type="checkbox"/> retract landing gear: layout and management |
| <input type="checkbox"/> carburetor heat: if fitted | <input type="checkbox"/> brakes: layout and management |
| <input type="checkbox"/> fuel system: layout and management | <input type="checkbox"/> any other ancillary controls fitted to the aircraft |

PERFORMANCE LIMITATIONS

The candidate will demonstrate their knowledge of the following performance limitations of the aircraft.

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|---|--|
| <input type="checkbox"/> stall speed – landing configuration (V _{so}) | <input type="checkbox"/> maximum landing gear extension speed (V _{le}) |
| <input type="checkbox"/> never exceed speed (V _{ne}) | <input type="checkbox"/> maximum flap extension speed (V _{fe}) |
| <input type="checkbox"/> maximum manoeuvring speed (V _a) | |

WEIGHT AND BALANCE, LOADING

- Demonstrate a thorough understanding of the weight and balance data applicable to the aircraft. In particular any MTOW limitations, passenger or baggage placement requirements need to be discussed and checked out with the candidate.

PRE-FLIGHT INSPECTION

The candidate will - using an orderly procedure:

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|--|--|
| <input type="checkbox"/> confirm currency of permit to fly and validation sticker | <input type="checkbox"/> confirm that there is sufficient fuel and oil for the intended flight |
| <input type="checkbox"/> thoroughly inspect the aircraft, focussing especially on those items listed by the manufacturer | <input type="checkbox"/> verify that the aircraft is in condition for safe flight |

ENGINE STARTING AND RUN-UP

- Complete the engine start, warm-up, run-up, and system checks in accordance with the aircraft flight manual or an appropriate alternative procedure.

PRE-TAKEOFF CHECKS

- Complete a pre-take off check list appropriate to the aircraft

FINAL HANDLING DEMONSTRATION

The candidate will demonstrate the skills required to fly the aircraft in a safe and competent manner. Particular attention will be paid to the correct handling of any aircraft systems that the candidate may not have previously been familiar with. The pilot in command shall be the flight instructor – except when the instructor is receiving a type rating from a non-instructor but type rated pilot.

- | | |
|--|---|
| <input type="checkbox"/> aircraft ground handling | <input type="checkbox"/> steep turns at 45 degree angle of bank |
| <input type="checkbox"/> engine and throttle handling | <input type="checkbox"/> minimum height loss stall, clean and landing configuration |
| <input type="checkbox"/> correct handling of all aircraft systems e.g. adjustable propeller, retract landing gear etc. | <input type="checkbox"/> sudden engine failure and simulated emergency landing |
| <input type="checkbox"/> appropriate climbout and approach angles | <input type="checkbox"/> normal and precision landings |