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| <input type="checkbox"/> Quadrennial Audit | <input type="checkbox"/> Upgrade Audit | <input type="checkbox"/> Apprentice Audit | | | | | | | | | | | | | | | | |
| AUDITED INSPECTOR'S DETAILS | | | | | | | | | | | | | | | | | | |
| Registration/s of aircraft used in audit | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Categories held:</td> <td style="text-align: center;">A B C D E F G H I L O</td> </tr> <tr> <td>Categories sought:</td> <td style="text-align: center;">A B C D E F G H I L O</td> </tr> </table> | Categories held: | A B C D E F G H I L O | Categories sought: | A B C D E F G H I L O | | | | | | | | | | | | |
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| Categories sought: | A B C D E F G H I L O | | | | | | | | | | | | | | | | | |
| AUDITED INSPECTOR OR APPRENTICE | | AUDITING INSPECTOR | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name</td> <td style="width: 80%;"></td> </tr> </table> <p>I accept the assessment of the auditing inspector and I will undertake to complete the remedial actions indicated below to fill any identified gaps in my knowledge by seeking advice, reading recommended publications and attending relevant training courses.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Signature</td> <td style="width: 80%;"></td> </tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Date:</td> <td style="width: 20%;"></td> <td style="width: 20%;">Insp. No.</td> <td style="width: 40%;"></td> </tr> </table> | | Name | | Signature | | Date: | | Insp. No. | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name</td> <td style="width: 80%;"></td> </tr> </table> <p>I have interviewed the above named inspector and I am satisfied that he has sufficient knowledge of the listed subjects below to be able to safely examine microlight aircraft presented to them for the purposes of inspection, within the restrictions of his authorised aircraft type and inspection categories.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Signature</td> <td style="width: 80%;"></td> </tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Date:</td> <td style="width: 20%;"></td> <td style="width: 20%;">Insp. No.</td> <td style="width: 40%;"></td> </tr> </table> | Name | | Signature | | Date: | | Insp. No. | |
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| Date: | | Insp. No. | | | | | | | | | | | | | | | | |
| RECOMMENDED AUTHORISATION CATEGORIES (Auditor to tick) | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> A: Flexwing Aircraft | <input type="checkbox"/> E: Two Stroke Engines | <input type="checkbox"/> I: Metal Frame/Fabric Covering Structures | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> B: Three Axis Aircraft | <input type="checkbox"/> F: Four Stroke Engines | <input type="checkbox"/> L: Composite Structures | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> C: Hybrid Aircraft | <input type="checkbox"/> G: Wooden Structures | <input type="checkbox"/> O: Own a/c Inspection | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> D: Powered Parachutes | <input type="checkbox"/> H: All-Metal Structures | | | | | | | | | | | | | | | | | |
| KNOWLEDGE REQUIREMENTS ✓ = satisfactory ? = gaps evident ✗ = unsatisfactory N/A = not applicable | | | | | | | | | | | | | | | | | | |
| Generic Knowledge (verified in context of the categories currently held) | | | | | | | | | | | | | | | | | | |
| Mechanics: mass, inertia, force, acceleration, stress, strain, tension, compression, torsion, bending | | | | | | | | | | | | | | | | | | |
| Structure: struts, ties, beam-columns, shells, monocoque, membranes, truss, loads, stiffness | | | | | | | | | | | | | | | | | | |
| Joints: fixed, sliding, pinned (rotating), welded, fastened (clamping loads), bonded | | | | | | | | | | | | | | | | | | |
| Fasteners: bolts, screws, rivets, Velcro, zip fasteners, | | | | | | | | | | | | | | | | | | |
| Electrics: volts, amps, ohms, watts, fuses, switches, rating, batteries, alternators | | | | | | | | | | | | | | | | | | |
| Instrumentation: Minimum requirement, mounting, tubing, static vents, magnetic influence, EMI | | | | | | | | | | | | | | | | | | |
| Covering: Fabric & Stitching, Betts/Brooks testing, tactile (feel), UV & chemical degradation (washing) | | | | | | | | | | | | | | | | | | |
| Controls: Cable runs, guides, tension, pulleys, safety guards, freedom of movement | | | | | | | | | | | | | | | | | | |
| Wire Rope: Inspection for corrosion, swaging, thimble deformation, strand breakage, slippage | | | | | | | | | | | | | | | | | | |
| Corrosion: Types of, identification, prevention, significance, electrolytic pairs etc. | | | | | | | | | | | | | | | | | | |
| Locking Devices: Chemical, mechanical, areas of importance – rotating joints, turnbuckles | | | | | | | | | | | | | | | | | | |
| NDT techniques: Dye penetrant, magnifying devices, illumination etc. | | | | | | | | | | | | | | | | | | |
| Safety Practices: Ignition isolation, propeller hazards, fuel handling, fire extinguisher types etc. | | | | | | | | | | | | | | | | | | |
| Weight & Balance: Weighing flexwings and 3-axis a/c, CG datum, ZFW, moment calculations, fuel/pax | | | | | | | | | | | | | | | | | | |
| Avionics & Systems: Radio, Transponder, GPS, ADS-B, EFIS, Strobes, Lights, Carb Heat, BPRS, Lithium Batts, Autopilots etc. | | | | | | | | | | | | | | | | | | |
| BMAA Inspector Authorisation Categories: | | | | | | | | | | | | | | | | | | |
| Category A: Flexwing Aircraft – weightshift, billowshift, lufflines, washout rod, trim, APS, bungees | | | | | | | | | | | | | | | | | | |
| Category B: Three-Axis Aircraft – aileron, rudder, elevator, flaps, trim | | | | | | | | | | | | | | | | | | |

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| Category C: Hybrid Aircraft – wing warping, hybrid controls | |
| Category D: Powered Parachute (Canopy) – lines, links, connectors, straps, cleats, pulleys, locks etc. | |
| Category E: Two-stroke Engines – ignition, fuel, exhaust, gearbox, lubrication, servicing, propeller CoC | |
| Category F: Four-stroke Engines – ignition, fuel, exhaust, gearbox, lubrication, servicing, propeller CoC | |
| Category G: Wood Structures – material properties, construction & failure mode | |
| Category H: All-Metal Structures – material properties, construction & failure mode | |
| Category I: Metal Frame/Fabric Covered Structures – material properties, construction & failure modes | |
| Category L: Composite Structures – material properties, construction & failure mode | |
| Category O: Inspection privilege for own aircraft | |
| <i>BMAA Guidelines, Procedures, Policies & Paperwork</i> | |
| Maintenance: Replacement by ‘form, fit and function’ with fully interchangeable parts approved by the manufacturer, required vs recommended maintenance, standard commercial sourced parts identical spec and CoC’s. | |
| Repairs: Prior approval by Technical Office, Manufacturer’s letter of no technical objection, role of Type Approval Holder, optional approved mods, fabrication process, strict replacement | |
| Independent Inspections: After control system rejoins, changes to vital points, modifications or repairs to primary structure, TIL044 - SIGMA Inspection Matrix & TIL064 - BMAA Guide to Airworthiness | |
| Human factors and preparation: self fitness check, pre-brief etc | |
| Logbooks: Engine/Airframe/Propeller Log Books: recording of data, correct use, servicing, maintenance | |
| Approved Data: TIL, TADS, HADS, SB, AD, AAN, MPD, MAAN, MinMods, POH, AMM, IPC | |
| BMAA Inspection Forms: AW/001, 002, 003, 004, 005, 006, 007, 26, 28, 30, 46, 53, 57, 68, 70, 71, 74, 76, 91 | |
| Standard Minor Modification Forms | |
| Aircraft Data: Pilot’s Operating Handbook, Aircraft Maintenance Manual, Supplements, Placards | |
| Administration: Registered & Subscribed to Inspector’s internet forum & receiving notifications | |
| Own a copy of/have access to AC 43.13-1B: Aircraft Inspection & Repair - Methods, Techniques & Practices | |
| <i>Inspection Techniques</i> | |
| Legal issues: signature validity, dual signatures, duty of care, criminality, keeping accurate records | |
| Tools: Bettsometer, Brooksometer, torch, magnifying glass, mirror, wire brush, dye penetrant kit, Borescope, etc | |
| Workplace safety: lighting, stepladders, electric hazards, etc | |
| <i>Recommendations / Remedial Actions (use additional sheet if necessary)</i> | |
| | |
| <i>Chief Inspector’s comments & decision (BMAA Internal use only)</i> | |
| | |
| <input type="checkbox"/> Remedial actions complete <input type="checkbox"/> Restrictions <input type="checkbox"/> Approval <input type="checkbox"/> Rejection | |
| Chief Inspector: | Insp. No: |
| Signature: | Date: |