

Airworthiness Assessments – NSW 2021

Replacement of Components or Annual Inspector Rating

Camden, 18/19 and 25/26 September 2021

COURSE INFORMATION

NSW Gliding is conducting a Course and Assessments for GFA Airworthiness Authorities for Replacement of Components or Annual Inspector on the weekends of 18/19 and 25/26 September at Camden Airport, NSW (see map on last page), at the facilities of Southern Cross Gliding Club.

The course involves two weekends of intensive theoretical and practical work. Prior to the course, there will be 5 evening webinars covering theoretical topics that you will also be expected to attend.

What is the course structure?

The course is made up of workshop and seminar sessions on practical sailplane inspection, component replacement and maintenance. All work will focus on approved procedures and data as well as interpretation and completion of all appropriate documentation for annual inspection of non-powered sailplanes. Organised activities are scheduled daily throughout the course from 8:00am to approximately 8.30pm on both Saturdays and Sundays. Food will be provided during the course for the three main meals, plus some snacks.

What documentation should I read prior to the course and where is it available?

Sailplane maintenance in the GFA system is controlled by the GFA Manual of Standard Procedures, Part 3, which is a series of documents available for download at the Gliding Australia website (under *Docs/Forms, Document and Form Library, Manual of Standard Procedures, [MOSP Part 3 Airworthiness](#)*).

In addition, the course is based on material in [Basic Sailplane Engineering, v24](#) and the *Replacement of Components or Annual Inspector Syllabus* as appropriate. You will be referring to these documents in either digital or paper format throughout the course.

Other material and documentation will be provided after enrolment via online access and during the course.

What are the prerequisites for attending and completing the course?

The prerequisites for acceptance in the course are as follows:

1. The candidate must be a current member of the GFA
2. The candidate must hold a Daily Inspection Authority for at least one airframe type.
3. Work on components and/or airframes under the supervision of a qualified Airworthiness Inspector should have been recently undertaken - and preferably documented in the GFA Schedule of Experience.
4. Candidates for Annual Inspector ratings shall have at least several inspections and other experience documented in their Schedule of Experience or equivalent documentation (eg CASA Form 915, overseas qualifications etc)

If you are uncertain about these prerequisites contact the course organisers for information and to discuss any issues.

What parts of the course do I need to attend?

Attendance on all days is required to gain an Authority or rating so that all assessment exercises can be completed. Candidates are expected to familiarize themselves with all materials issued to them and to have completed any and all pre-course work assigned to them. In particular, all course workbook material will be assessed and must be satisfactorily completed before any certification of an Airworthiness Authority. The instructors at the course will assist candidates to achieve their objectives in any way that they can and they will assess candidates' abilities, attitudes, diligence and workmanship during workshop sessions and their understanding and ability to work within the GFA's airworthiness system.

What certifications, ratings or Airworthiness Authorities might I expect to gain during the course?

Candidates who meet the relevant prerequisites and satisfactorily complete the Basic Airworthiness Assessment will be issued with an authority for *Replacement of Components* for one or more sailplane types (FRP and/or wood and tube). The Gliding Federation of Australia, as a delegate of the Civil Aviation Safety Authority (CASA), is the issuer of the Airworthiness Authorities for maintenance work on Sailplanes registered in Australia as Australian Registered Aircraft.

What tools and equipment should I bring to the course?

Candidates should bring their own basic set of tools, including the following:

1. A Schedule of Experience airworthiness logbook (one can be purchased at the course for \$20 if you don't have one already)
2. A water bottle for hydration while out at the hangar
3. Metric spanners (ring and open ended)
4. ¼" drive metric socket set
5. A selection of phillips and flat head screw drivers
6. A strong battery operated or low voltage (**not** 240 volts) light or torch
7. A small mirror, such as used for daily inspection
8. Personal protective Equipment, including protective eyewear (rather than ordinary reading glasses), protective clothing (e.g. overalls), sturdy footwear and a hat
9. Clipboard, writing paper and writing materials. Electronic note taking is ok, but often we will need quick notes written down directly on the aircraft so old-school items are useful. Greasy hands don't work well with electronic devices. However, phone cameras are a wonderful thing for documenting something before you take it apart!

Candidates who may not be able to bring their own equipment, for example if they are flying-in from interstate, should contact the course organisers to make alternative arrangements.

What tools and equipment will be available at the course?

Specialized tools, measurement devices, equipment and hardware will be provided for use during the assessment period. Candidates will be required to demonstrate their ability to competently and safely use these items for a number of tasks that will be assessed. A list is given below:

1. Tost release testers (spring and hydraulic)
2. Metric (and/or imperial) vernier calipers
3. Metric (and/or imperial) micrometer
4. Small hole gauges
5. Hand magnifying lens and loupe
6. Lockwire pliers
7. Water tube manometer and low pressure pneumatic tubing
8. GFA Automated instrument tester
9. Optical econoscope, boroscope and/or digital endoscopes
10. Nicopress tools, swages, thimbles and aircraft cables
11. Spring balances and weighing scales

12. Self-locking fasteners and other safety locking hardware
13. Aviation fasteners

What Documentation will be needed for the course?

Prior to the course, candidates should familiarise themselves with the contents of *MOSP Part 3 Version 8*, *Basic Sailplane Engineering Version 24* and the *Registered Operator's Handbook*. Other reference materials, information notes and workbooks will be issued to all candidates during the course.

What accommodation is available for the course?

A limited amount of bunkhouse accommodation may be available. We are about to begin building a new clubhouse and the old one may no longer be available. Please let us know interest and we'll keep you informed as we go. Candidates are free, of course, to make their own arrangements in the Camden area at their cost.

What are the arrangements for meals?

Full catering is provided for the duration of the course (breakfast, lunch, dinner and two daily tea breaks). There will be no kitchen facilities available for candidates to prepare their own meals. Please let us know of any dietary requirements as we can and do cater for all variations from Vegan to various religious requirements.

What type of weather can I expect?

The club's facilities are located Camden Airfield, within the Sydney basin. Night temps are typically around 8 - 15 degrees and daytime temps can reach low 30's. Layered clothing is recommended, as is a water bottle to keep hydrated and we get a burst of hot weather. Workshop sessions will take place in the hangar, which has a concrete floor, but has no heating. Meals will be outside at the Hangar. We may or may not have a clubhouse at the time of the course.

What is the course fee?

The Course fee is \$440, inc GST, which is inclusive of all meals. Payment details are on the application form.

Who should I contact to enroll in the course or to ask questions about the course?

To enroll please email a completed copy of the enrollment form to training@gliding.com.au. Questions about the course please contact either Andrew Simpson (0434 077 165, airworthiness@gliding.com.au) or Justin Couch (0468 696 835, justin@vlc.com.au). In particular, please contact Justin, in confidence, if you have any special requirements or if you feel that you may have some issue which may hinder you from involvement in aircraft maintenance. We are able to help candidates overcome a wide variety of perceived obstacles and achieve successful outcomes.

Where is the course located and how do I get there?

The club's address (Camden Airport) is Cobbity Road, Camden, 2570, just a few kilometres to the west of Camden Township. No public transport is available. Details for getting there and a map, can be found on the Southern Cross Gliding Club website: www.gliding.com.au. Our clubhouse is easily visible on the entrance road, but we will be meeting at the hangar each morning. It is located at the other end of the field via an access road. Please familiarise yourself with the layout of the airport on Google/Apple Maps before arrival on the first day.