

Airworthiness Assessments – NSW 2019

Replacement of Components Rating

Camden, 21/22 and 28/29 September 2019

COURSE INFORMATION

NSW Gliding is conducting a Course and Assessments for GFA Airworthiness Authorities for Replacement of Components on the weekends of 21/22 and 28/29 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.

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 8am 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 Syllabus*. You will be referring to these documents in either digital or paper format throughout the course. You will also need to complete the BSE theory workbook package that will be sent to you about 3 weeks prior to the course commencing and *these should be completed prior to attending 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 new GFA Schedule of Experience.

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 as used for daily inspection
8. Personal protective Equipment, including protective eye wear (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

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. Cable tensiometer
2. Tost release testers (spring and hydraulic)
3. Metric (and/or imperial) vernier calipers
4. Metric (and/or imperial) micrometer
5. Small hole gauges
6. Hand magnifying lens and loupe
7. Safety wire-tie pliers
8. Water tube manometer and low pressure pneumatic tubing
9. Optical econoscope, boroscope and/or digital endoscopes
10. Nicopress tools, swages, thimbles and aircraft cables
11. Tap-test hammers
12. Spring balances and weighing scales
13. self-locking fasteners and other safety locking hardware
14. 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*. The pre-course theory workbook package sent to each candidate should also be attempted

and returned as requested. 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 is provided for candidates (4 Beds total). 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.

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. Lectures will be conducted in the clubhouse (heated) and workshop sessions will take place in the hangar, (which has a concrete floor).

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 Brian Kranz (0403 081 485, 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. Meet there each morning and then we'll drive out to the hangars as needed for practical exercises.