



BGA GLIDING SYLLABUS

Solo, Bronze and Cross Country Endorsements to the Gliding Certificate

SOLO ENDORSEMENT TO THE GLIDING CERTIFICATE

1. Requirements

1a. General

BGA Laws and Rules describe the requirements.

1b. Training Record

Flight training, including exercises flown, number of launches and flight time shall be recorded in a clear format and authenticated by the instructor in charge. A training progress record card supported by a pilot logbook is an acceptable format.

A training progress card is published as an appendix to this syllabus.

A club record of training is also published as an appendix to this syllabus.

1c. Age

The applicant for the BGA certificate shall not be less than 14 years of age, as described in BGA Laws and Rules.

1d. Medical Fitness

The applicant shall comply with the medical standards described in the current edition of BGA Laws and Rules.

1e. Instructors

Flight instruction may only be provided by a BGA rated instructor.

2. Training Syllabus – Solo Endorsement

2a. Theoretical Knowledge

An appropriate level of theoretical knowledge must be demonstrated in at least the following subjects;

Subject	Detail
Air Law	Collision avoidance, rules & protocols, local airspace restrictions

2b. Flight Training Experience

The applicant shall have successfully attained the following experience in gliders;

- a. The minimum number of launches described in the latest edition of BGA Laws and Rules and;
- b. The relevant elements of the following syllabus assessed to an appropriate standard including airmanship considerations.

Exercise	Detail
Ex 5 Lookout	Technique & collision avoidance
Ex 7 Effects of Controls	Effects of elevator, rudder, aileron & flaps (if required) Adverse Yaw Speed monitoring & Control Co-ordination
Ex 8 Use of Trim	
Ex 9 The Straight Glide	Drift, Track & Heading
Ex 10 Turning	Entry, Exit and Maintenance Slip & Skid Regaining a Heading Steep Turns
Ex 11 Airbrakes (and/or Spoilers)	Effects
Ex 12 Approach Control	Normal Undershoot Overshoot
Ex 13 Landing	Final Approach

	Round Out Hold Off Landing Use of Wheelbrake Cross Wind Landing
Ex 14 Circuit Planning	Reference Point Normal Circuit Modified Circuit Effect of Wind Height Judgement
Launching (Ex 16 or 17 – based on available launch method)	Equipment Launch Speeds Launch Techniques Launch Failures Launch Abandonment
Ex 18 Stalling	Symptoms 1G Stalling Accelerated Stalling Lack of Effective Elevator at Stall Reduced G not reliable Symptom of Stalling
Ex 19 Spinning & Spiral Dives	Spinning – Recognition & Recovery Spiral Dive – Recognition & Recovery Further Spinning, including realistic scenarios
Ex 20 First Solo	Normal Take-off, Circuit and Landing

2c. Gliding Certificate with Solo Endorsement Application Form

The Gliding Certificate application form is available at www.gliding.co.uk

BGA BRONZE AND CROSS COUNTRY ENDORSEMENTS TO THE GLIDING CERTIFICATE

3. Requirements

3a. General

BGA Laws and Rules describe the current arrangements.

3b. Training Record

Flight training, including exercises flown, number of launches and flight time shall be recorded in a clear format and authenticated by the instructor in charge. A training progress record card supported by a pilot logbook is an acceptable format.

A club record of training is also published as an appendix to this syllabus.

3c. Age

The applicant shall not be less than 16 years of age, as described in BGA Laws and Rules.

3d. Medical Fitness

The applicant shall comply with the medical standards described in the current edition of BGA Laws and Rules.

3e. Instructors

Flight instruction may only be provided by a BGA rated instructor.

3f. Testing

Theoretical Knowledge and Skills Tests may only be carried out by a person authorised to do so by the BGA.

4. Training Syllabus BGA Bronze and Cross Country Endorsements

4a. Theoretical Knowledge

An appropriate level of theoretical knowledge must be demonstrated in at least the following subjects;

Subject	Detail
Air Law	Rules & regulations relevant to the certificate holder Rules of the air Airfield practices and procedures
General Aircraft Knowledge	Principles of operation of glider systems and instruments Operating limitations of gliders Relevant operational information described in the flight manual or other relevant documents
Flight Performance & Planning	Effects of loading and mass distribution on flight characteristics Mass and balance considerations Use and practical application of launching, landing & other performance data Pre-flight and en-route planning Appropriate airfield procedures Altimeter setting procedures Collision avoidance considerations and techniques
Human Performance & Limitations	Human performance relevant to the glider pilot
Meteorology	Application of elementary aeronautical meteorology Obtaining and use of meteorological information
Navigation	Practical aspects of visual air navigation techniques Use of aeronautical charts Airspace awareness & safety Altimetry
Operational Procedures	Use of aeronautical documentation such as NOTAMs, relevant aeronautical codes and abbreviations Different launch methods and associated procedures Appropriate precautionary and emergency procedures, including action to be taken to avoid hazardous weather and other relevant operating hazards Soaring safety and protocols
Principles of Flight	Principles of flight relating to gliders
Use of Radio	Knowledge appropriate to radio communication in a glider

4b. Flight Training Experience

The applicant shall have successfully attained in gliders;

- The minimum number of launches as described in BGA Laws and Rules
- The minimum solo experience as described in BGA Laws and Rules
- Completion of the flight training syllabus exercises required to successfully complete the general and navigation skills tests which must include the following practical subjects;

Exercise	Detail
Lookout	Technique, scan cycle & collision avoidance
Effects of Controls	Effects of elevator, rudder, aileron & flaps (if required) Speed monitoring & Control Adverse Yaw Co-ordination
Use of Trim	
The Straight Glide	Scan cycle Drift, Track & Heading
Turning	Entry, Exit and Maintenance Slip & Skid Regaining a Heading Steep Turns
Airbrakes (and/or Spoilers)	Effects
Approach Control	Normal Undershoot Overshoot
Landing	Final Approach Round Out Hold Off Landing Use of Wheelbrake Cross Wind Landing
Circuit Planning	Reference Point Normal Circuit Modified Circuit Effect of Wind Height Judgement

Launching	Equipment Launch Speeds Launch Techniques Launch Failures Launch Abandonment
Stalling	Symptoms 1G Stalling Accelerated Stalling Lack of Effective Elevator at Stall Reduced G not reliable Symptom of Stalling
Spinning & Spiral Dives	Spinning – Recognition & Recovery Spiral Dive – Recognition & Recovery Further Spinning
Navigation	Planning In flight map reading navigation techniques In flight GPS navigation techniques (optional) In flight airspace awareness Lost procedure
Field Landing	Field suitability and hazards Circuit judgement
Pre & Post Flight Operations	Glider post assembly/rigging checks Pre-flight inspection including recording Obtaining NOTAMs Recording of flight time Glider parking/storage

4c. General and Navigation Skills Tests (refer BGA Laws and Rules)

- a. The applicant shall successfully complete a BGA Bronze Badge General Skills test during a series of flights in a glider.
- b. The applicant shall successfully complete a BGA Cross Country Endorsement Navigation Skills Test.
- c. The applicant shall successfully meet the field landing test requirement.

4d. Application Forms

The Bronze and Cross Country Endorsement forms are available at www.gliding.co.uk

REFERENCE MATERIAL & SYLLABUS DEVELOPMENT

5. Required & Recommended References

5a. The following publications shall be referred to during the delivery of the BGA Gliding Badge and Bronze & Cross Country Endorsements syllabus of training;

- Laws and Rules – BGA
- Instructors Manual – BGA
- Bronze Theoretical Knowledge Examinations – BGA
- Instructor Organisation and Instructor Guidance Notes - BGA

5b. The following publications are recommended study material for the Bronze & Cross Country Endorsements

- Gliding – BGA
- Bronze & Beyond – John McCullagh

Please refer to <http://www.bgashop.co.uk/> for numerous other helpful publications

5c. The following shall be referred to during development of this syllabus by the BGA;

- BGA Laws and Rules
- The Air Navigation Order
- ICAO Annex 1 - The Glider Pilot Licence
- EASA FCL Requirements

5d. The BGA Executive Committee shall be consulted prior to revising this syllabus.

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