

BRITISH GLIDING ASSOCIATION



SYLLABUS OF TRAINING

BGA SOLO CERTIFICATE AND BRONZE AND CROSS COUNTRY ENDORSEMENTS

BGA SOLO CERTIFICATE (The 'A' Certificate)

1. Requirements

1.1 General

BGA Laws and Rules describe the current requirements..

1.2 Training Record

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

1.3 Age

The applicant for the BGA certificate shall be not less than 16 years of age.

1.4 Medical Fitness

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

1.5 Instructors

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

2. Training Syllabus - BGA Solo Certificate

2.1 Theoretical Knowledge

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

<i>Air Law</i>	Collision avoidance rules and protocols, local airspace considerations
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2.2 Flight Training Experience

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

- a. The minimum number of launches described in the current edition of BGA Laws and Rules; and
- b. The relevant elements of the following flight training syllabus to an appropriate standard;

Note: Exercise Numbers Refer to the BGA Instructors Manual which is the flight exercise detail reference source

<i>Ex 5 Lookout</i>	Technique, scan cycle and collision avoidance
<i>Ex 7 Effects of Control</i>	Effects of Elevator, rudder, aileron, flaps (if required) Adverse Yaw Speed monitoring and control Co-ordination
<i>Ex 8 Use of trim</i>	
<i>Ex 9 The straight glide</i>	Scan cycle Drift, track and heading
<i>Ex 10 Turning</i>	Entry, exit and maintenance Slip and skid Regaining a heading Steep turns
<i>Ex 11 Airbrakes (and/or Spoilers)</i>	Effects
<i>Ex 12 Approach control</i>	Normal Undershoot Overshoot

<i>Ex 13 Landing</i>	Final approach Round out Hold Off Landing Use of wheel brake Cross wind landing
<i>Ex 14 Circuit Planning</i>	Reference point Normal circuit Modified circuit Effect of wind Height judgement
<i>Ex 16 Wire launching (Ex 16 or 17 - based on available launch method)</i>	Equipment Launch speeds Launch techniques Launch failures Launch abandonment
<i>Ex 17 Aerotow launching (Ex 16 or 17- based on available launch method)</i>	Equipment Launch speeds Launch techniques Launch failures Launch abandonment
<i>Ex 18 Stalling</i>	Symptoms IG stalling Accelerated stalling Lack of effect of elevator at stall Reduced G not reliable symptom of stalling
<i>Ex 19 Spinning and Spiral Dives</i>	Spinning – recognition and recovery Spiral Dive – recognition and recovery Further spinning
<i>Ex 20 First Solo</i>	Normal takeoff, circuit and landing

2.3 Solo Certificate Application Form

The A badge application form is available at www.glidering.co.uk or from the BGA office.

BGA BRONZE AND CROSS COUNTRY ENDORSEMENTS

3. Requirements

3.1 General

BGA Laws and Rules describe the current requirements.

3.2 Training Record

Flight training shall be recorded in a clear format and authenticated by the instructor in charge. A training record card and/or a pilot logbook is an acceptable format.

3.2 Age

The applicant for the endorsements shall be not less than 16 years of age.

3.3 Medical Fitness

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

3.4 Instruction

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

3.5 Testing

Theoretical knowledge and practical skill tests may only be carried out by a BGA Full Rated Instructor and with the approval of the Chief Flying Instructor.

4. Training Syllabus - BGA Bronze and Cross Country Endorsements

4.1 Theoretical Knowledge

An appropriate level of theoretical knowledge must be demonstrated following a BGA approved multiple choice written test to include the following subjects;

<i>Air law</i>	Rules and regulations relevant to the certificate/badge holder Rules of the air Appropriate airfield practices and procedures
<i>Aircraft general knowledge</i>	Principles of operation of glider systems and instruments Operating limitations of gliders Relevant operational information described in the flight manual or other appropriate documents
<i>Flight performance and planning</i>	Effects of loading and mass distribution on flight characteristics Mass and balance considerations Use and practical application of launching, landing and other performance data Pre-flight and en-route flight planning appropriate to operations Appropriate airfield procedures Altimeter setting procedures Collision avoidance considerations and techniques
<i>Human performance and limitations</i>	Human performance relevant to the glider pilot
<i>Meteorology</i>	Application of elementary aeronautical meteorology Obtaining and use of meteorological information
<i>Navigation</i>	Practical aspects of visual air navigation techniques Use of aeronautical charts Altimetry
<i>Operational procedures</i>	Use of aeronautical documentation such as NOTAM, 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
<i>Principles of flight</i>	Principles of flight relating to gliders
<i>Use of Radio</i>	Knowledge appropriate to radio communication in a glider

4.2 Flight Training Experience

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

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

<i>Lookout</i>	Scan cycle and collision avoidance
<i>Effects of Control</i>	Effects of Elevator, rudder, aileron, flaps (if required) Adverse Yaw Speed monitoring and control Co-ordination
<i>Use of trim</i>	
<i>The straight glide</i>	Scan cycle Drift, track and heading
<i>Turning</i>	Entry, exit and maintenance Slip and skid Regaining a heading Steep turns
<i>Airbrakes (and/or Spoilers)</i>	Effects
<i>Approach control</i>	Normal Undershoot Overshoot
<i>Landing</i>	Final approach Round out Hold Off Landing Use of wheel brake Cross wind landing
<i>Circuit Planning</i>	Reference point Normal circuit

	<p>Modified circuit Effect of wind Height judgement</p>
<p><i>Wire launching (Ex 16 or 17 - based on available launch method)</i></p>	<p>Equipment Launch speeds Launch techniques Launch failures Launch abandonment</p>
<p><i>Aerotow launching (Based on available launch method)</i></p>	<p>Equipment Launch speeds Launch techniques Launch failures Launch abandonment</p>
<p><i>Stalling</i></p>	<p>Symptoms IG stalling Accelerated stalling Lack of effect of elevator at stall Reduced G not reliable symptom of stalling</p>
<p><i>Spinning and Spiral Dives</i></p>	<p>Spinning – recognition and recovery Spiral Dive – recognition and recovery Further spinning</p>
<p><i>Navigation</i></p>	<p>Planning In flight map reading navigation techniques In flight GPS navigation techniques (optional) In flight airspace awareness Lost procedure</p>
<p><i>Field Landing</i></p>	<p>Field suitability and hazards Circuit judgement</p>
<p><i>Pre and Post Flight Operations</i></p>	<p>Glider post assembly/rigging checks Pre flight inspection Obtaining NOTAM's Recording of flight time Glider parking/storage</p>

4.3 General and Navigation Skills Tests

- a. The applicant shall successfully complete a BGA Bronze Badge General Skills Test during a series of flights in a glider. 4.2c refers.
- b. The applicant shall successfully complete a BGA Cross Country Endorsement Navigation Skills Test. 4.2c refers.
- c. The applicant shall successfully meet the field landing test requirement during a. and b. above.

4.4 Solo Certificate Application Form

The Bronze badge and Cross Country Endorsement application forms are available at www.gliding.co.uk or from the BGA office.

REFERENCE MATERIAL AND SYLLABUS DEVELOPMENT

5. Required and Recommended references

5.1 **The following publications shall be referred to** during the delivery of the BGA Solo Certificate and Bronze and Cross Country Endorsements syllabus of training;

- *Laws and Rules* - BGA, Leicester
- *Instructors Manual* - BGA, Leicester
- *Bronze Badge Examination CDROM* – BGA, Leicester

5.2 **The following publications are recommended study material** for the Bronze and Cross Country Endorsements;

- *Gliding* – BGA, Leicester
- *Bronze and Beyond* – J McCullagh, Kingston upon Thames

There are numerous other suitable reference publications available. Please refer to the BGA website shop at www.gliding.co.uk for full details.

5.3 **The following publications shall be referred to** during any development of this syllabus by the BGA;

- *Laws and Rules* - BGA, Leicester
- *Annex 1 'The Glider Pilot Licence'* – ICAO

5.4 The BGA Executive Committee shall be formally consulted prior to revising this syllabus.

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