



## **BGA GLIDING SYLLABUS**

### **The Gliding Certificate The Bronze and Cross Country Endorsement**

## **BGA GLIDING CERTIFICATE ('A' 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 16 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 – BGA Gliding Certificate

### 2a. Theoretical Knowledge

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

| <b>Subject</b> | <b>Detail</b>   |
|----------------|---|
| 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.

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

|   |  |
|---|--|
| Ex 13 Landing   | Final Approach<br>Round Out<br>Hold Off<br>Landing<br>Use of Wheelbrake<br>Cross Wind Landing  |
| Ex 14 Circuit Planning  | Reference Point<br>Normal Circuit<br>Modified Circuit<br>Effect of Wind<br>Height Judgement  |
| Launching<br>(Ex 16 or 17 –<br>based on available<br>launch method) | Equipment<br>Launch Speeds<br>Launch Techniques<br>Launch Failures<br>Launch Abandonment   |
| Ex 18 Stalling  | Symptoms<br>1G Stalling<br>Accelerated Stalling<br>Lack of Effective Elevator at Stall<br>Reduced G not reliable Symptom of Stalling |
| Ex 19 Spinning &<br>Spiral Dives                                    | Spinning – Recognition & Recovery<br>Spiral Dive – Recognition & Recovery<br>Further Spinning, including realistic scenarios         |
| Ex 20 First Solo  | Normal Take-off, Circuit and Landing   |

### 2c. Gliding Certificate Application Form

The Gliding Certificate application form is available at [www.gliding.co.uk](http://www.gliding.co.uk)

## **BGA BRONZE AND CROSS COUNTRY ENDORSEMENT**

### **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;

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

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

|                              |   |
|------------------------------|---|
| Launching                    | Equipment<br>Launch Speeds<br>Launch Techniques<br>Launch Failures<br>Launch Abandonment  |
| Stalling                     | Symptoms<br>1G Stalling<br>Accelerated Stalling<br>Lack of Effective Elevator at Stall<br>Reduced G not reliable Symptom of Stalling                        |
| Spinning & Spiral Dives      | Spinning – Recognition & Recovery<br>Spiral Dive – Recognition & Recovery<br>Further Spinning   |
| Navigation                   | Planning<br>In flight map reading navigation techniques<br>In flight GPS navigation techniques (optional)<br>In flight airspace awareness<br>Lost procedure |
| Field Landing                | Field suitability and hazards<br>Circuit judgement  |
| Pre & Post Flight Operations | Glider post assembly/rigging checks<br>Pre-flight inspection including recording<br>Obtaining NOTAMs<br>Recording of flight time<br>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](http://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
- BGA Gliding Certificate and Bronze & Cross Country Syllabus - 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 publications shall be referred to during development of this syllabus by the BGA;

- Laws and Rules – BGA
- Annex 1 The Glider Pilot Licence – ICAO
- EASA FCL

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

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