

## BGA Inspector Personal Experience Assessment

### AIRFRAME GENERAL (AF)

Name of applicant:	Written PER? satis/not satis	Interview? satis/not satis
Assessor:		
Date of assessment:		
Ratings applied for:		
<b>General Activities</b>		
Internal and external placards; check or replace		
Annual Inspection Documentation		
Review records for compliance with airworthiness directives		
Five Annual Inspections		
Inspection after an occurrence or damage		
Dismantling/reinstallation of wings and empennages		
Cleaning and lubrication		
Life extension inspections		
<b>Levelling and weighing</b>		
Level the sailplane		
Weighing, Weight & Balance Sheet		
Prepare a weight and balance amendment		
Check the list of equipment		
<b>Fuselage, wings and tail surfaces</b>		
Fuselage and fin; Inspection, cleaning and waxing		
Wings; Inspection, play, frequency check, cleaning and waxing		
Tail surfaces; Inspection, cleaning and waxing		
<b>Flight Controls and Flight Control Systems</b>		
Pilot controls general; Inspection, colour coding and operation		
Aileron and Flaps; Inspection, removal, balancing and reinstallation		
Elevator; Inspection, removal, balancing and reinstallation		
Rudder; Inspection, removal, balancing and reinstallation		
Control cables; Inspection, fabrication, installation, tensioning and locking		
Control pushrods; Inspection, removal, installation, adjustment and locking		
Trimmer systems; Inspection, removal, installation, adjustment and locking		
Safeguarding of pins, screws, castellated nuts and wire locking		
Sealing of gaps		
Range of movement checks		
Independent inspections		

<b>Electrical Systems</b>		
Electrical components and wiring; Inspection, removal, repair and installation		
Batteries; servicing and capacity checking		
<b>Avionics Systems</b>		
COM; Inspection, removal, installation and testing		
NAV; Inspection, removal and installation		
XPDR; inspection, removal and installation		
Antenna/ Antenna cable; Inspection, removal and installation		
<b>Cabin Equipment / Systems</b>		
Belts – safety harness; inspection, removal and installation		
Oxygen system; Removal, installation, testing requirements and safety precautions		
Canopy; Inspection, polish, replacement or repair and jettison test		
Pitot/Static system; Inspection, component and plumbing removal, installation and test		
Flight instruments; Inspection, removal, installation and test		
Installation of approved equipment		
Compass; Installation and compensation		
Tow release; Inspection, removal, installation and test		
Water ballast system; inspection, removal, installation and test		
Undercarriage; Inspection, removal, installation and function test		
Skids; Inspection, wear assessment and replacement		
Brake system; Servicing, inspection, adjustments and replacement of components		
Wheels and tyres: Inspection, servicing, replacements and creep indicators		

Approve for interview	
Further experience required	
Experience not acceptable	
Signed for BGA:	
Signed by applicant:	

## SELF SUSTAINING SAILPLANE AND MOTOR GLIDERS (SS or MG)

(In addition to Airframe General)

<b>Piston Engines General</b>		
Routine servicing; oil and filter changes, inspections		
Reduction gear/ belt system; Inspect, remove and install belts and adjust		
Crankshaft/drive flange; Inspect, check crankshaft run-out		
Tappets; Inspect, check and adjust clearance		
Check and record compression		
Extract broken stud and helicoil repair		
Perform ground run		
Establish/check reference RPM		
Troubleshoot engine and systems		
Pylon and extension/retraction systems; Inspection, lubrication and testing		
Limit switches: Inspection testing and adjustment		
Starting systems; Inspection, servicing, replacement of components and testing		
Generation systems; Inspection, replacement of components and testing		
<b>Propeller</b>		
Propeller; remove and refit		
Propeller; Inspect and service		
Pitch change mechanism; Inspect, adjust, replace cable and test		
Perform static functional checks		
Check operation during ground run		
Check track		
Check setting of micro switches		
Assessment of blade damage i.a.w. AMM		
Troubleshoot faulty system		
Propeller; assess life limitation		
<b>Fuel</b>		
Water drain system; Inspection, remove/replace valve, test		
Booster pump; Inspect, remove/refit and test		
Fuel selector; Inspect, remove/replace and test		
Fuel tanks and cells; Inspect, remove/replace and leak test		
Fuel control valves; Inspect, remove/replace and test		
Magnetic fuel level indicators; Inspect, remove/replace test		
Check fuel contents manually and check calibration of fuel quantity gauges		
Check/replace filters		
Replace flexible fuel lines		
Flow check system		
Check operation feed/selectors		
Troubleshoot faulty system		
<b>Fuel and control</b>		
Replace engine driven pump		
Install carburettor/injector		
Adjust carburettor/injector		
Inspect/replace carburettor diaphragm		

Clean injector nozzles		
Replace primer line		
Check carburettor float setting		
Check/replace air filter		
Troubleshoot faulty system		
<b>Exhaust</b>		
Remove/refit exhaust		
Inspect, remove/replace shock mounts		
Replace exhaust gasket		
Inspect welded repair		
Pressure check cabin heater muff		
Troubleshoot faulty system		
<b>Ignition systems</b>		
Change magneto, check and adjust timing to engine		
Check magneto internal timing		
Change plugs		
Test plugs		
Check H.T. leads		
Install new leads		
Check system bonding		
Troubleshoot faulty system		
<b>Engine Indicating</b>		
Replace engine instruments(s)		
Replace oil temperature bulb		
Replace thermocouples		
Check calibration		
Troubleshoot faulty system		

**WOOD REPAIR RATING (WR)**  
(In addition to Airframe General)

<b>Wooden structures / Metal tubes and fabric</b>		
Inspection / testing for damage and deterioration		
Identification of types of damage		
Rib structure repairs		
Plywood skin repairs		
Recover with fabric		
Rib stitching		
Protective coating and finishing		
Install patch on fabric material		
Repair of fairings		
Tubular structure repairs		
Inspection of welded repairs		

**COMPOSITE REPAIR RATING (CR)**  
(In addition to Airframe General)

<b>Composite Structures</b>		
Inspection damage identification and assessment		
Laminate repairs, use of appropriate materials and resin systems		
Sandwich structure repairs		
Post cure heat treatment of repairs		
Partial gel coat repair		
Complete gel refinishing		
Paint refinishing		
Repair of fairings		
Repair of flying controls, mass and balance checks		

**METAL REPAIR RATING (MR)**  
(In addition to Airframe General)

<b>Metal skin structures</b>		
Inspection and damage identification		
Identifying corrosion and treatments		
Crack testing		
Skin repairs		
Rib, longeron, frame and former repairs		
Drilling cracks		
Riveting techniques and rivet identification		
Bonding of structures		
Anti-corrosion treatment		
Repair of fairings		

### SENIOR INSPECTOR RATING (A or ST)

(In addition to Airframe General and appropriate repair rating)

<b>Major repairs as applicable to the above repair ratings</b>		
Extensive damage assessment		
Major repairs to spars and frames that require jiggling of the structure		
Major repairs to skins that required jiggling and alignment		
Major repairs to GRP structures		
Major repairs to flying controls		
Guidance and mentoring to new inspectors		

### ELECTRIC POWERPLANT (EP)

(In addition to Airframe General)

<b>Electric motor-powered sailplanes</b>		
Battery installation; Inspection, testing and servicing		
Battery precautions; installation, charging, discharging, servicing and damage		
Power feed and control systems. Inspection, repair and testing		
Pylon and extension/retraction systems; Inspection, lubrication and testing		
Limit switches: Inspection testing and adjustment		
Motor; Inspection, servicing, removal/installation and testing		
Propeller: Inspection, removal/installation		
Propeller; Assessment of blade damage i.a.w. AMM		
Propeller; Assess life limitation		
Control system: Inspection, BITE testing		
Monitoring systems; Interrogation, download and linkup		

### JET POWERPLANT (JP)

(In addition to Self-Sustaining Sailplane and Motor Glider)

<b>Jet turbine powered sailplanes</b>		
Engine; Inspection, servicing, removal/installation and testing		
Intake: inspection		
Fan and IGV; Inspection and damage assessment		
Combustion case; Inspection damage assessment		
Exhaust collector/nozzle; Inspection, damage assessment		
Jet Fuel system: Inspection, servicing and replenishment		
Starting systems; Inspection, testing, servicing and troubleshooting		
Starting gas bottle; Inspection, replenishing and testing		
Engine; assess life limitation		

#### ENGINE INSPECTION AND REPAIR (EO)

<b>Overhaul of non-type certified engines</b>		
Strip and inspect engines		
NDT of internal components		
Wear and damage assessment		
Reconditioning of parts		
Assembly and testing of engine		
Inspection of engine accessories		
Reconditioning of engine accessories		

#### BGA TUG INSPECTOR (TG)

<b>Maintenance of BGA Tug aircraft</b>		
(Holder of an appropriate licence		
Most of the experience detail above applies		

#### CHIEF ENGINEER/ARC SIGNATORY (CE, ARC Signatory)

(In addition to Airframe General and appropriate rating SS, MG TG)

<b>To issue Airworthiness Review Certificates</b>		
For Non-Part 21 aircraft. Additional three years of experience in aircraft continued airworthiness. For Part 21 sailplanes. An appropriate Part-66 licence with additional one year of experience. For Part-21 aeroplanes. An appropriate Part-66 licence with additional three years of experience.		
BGA training course		