



**BRITISH MODEL FLYING ASSOCIATION  
THE R/C ACHIEVEMENT SCHEME**

**TEST STANDARDS for CHIEF EXAMINERS  
and CLUB EXAMINERS  
GUIDANCE for TEST CANDIDATES**

**THE 'B' CERTIFICATE  
(SILENT FLIGHT - THERMAL)**

**ISSUE 2**

**May 2009**



## General

The 'B' Certificate is “designed to recognise the pilot's more advanced ability and a demonstrated level of safety which may be considered by an event organiser as suitable for flying at a public display.”

As an Examiner, therefore, the level of competence required from a candidate should firstly be based on the question; 'has this person demonstrated their flying ability and safety to me in a satisfactory manner' and, secondly, 'how do I feel about them appearing in public, possibly at a large display, on the strength of the certificate which I may be about to award them'.

The aim of the 'B' certificate has always been to give the club flyer a personal attainment goal beyond the 'A' Certificate; a demonstrated level of competence and safety which is attainable by the average pilot with a little thought and practice.

For many years the 'B' Certificate has been seen by some as a 'display licence' but, whilst it certainly has its uses in the context of displays, it has always been much more than that. It was set up in the first place as a method of encouraging club flyers to gain further flying skills by meeting and being tested to a recognised national standard and this is still its main function.

The long term strategy behind this is that if enough club flyers qualify for their 'B' certificates then the general standard of flying both within your club and nationally cannot help but rise. Examiners should be pressing this concept positively within their clubs and discouraging the idea of the 'B' as 'just a display licence'.

A pilot capable of flying to 'B' certificate standards and wishing to go straight to the 'B' test without taking the 'A' test may do so but candidates should on no account be forced along this path. A flyer, known within a club to be a good pilot, going through the 'A' before taking the 'B' can be an excellent example to the rest of the club members and this should be pointed out to any candidate wishing to go direct to the 'B'.

The candidate for the 'B' should have studied the BMFA handbook, any local site rules (if applicable) and be familiar with the 'Safety Code for General Flying', the 'Operational Guide, All Models and Radio Control' and the 'Safety Code for Model Flying Displays'. Most of the questions asked at the end of the test will be from these sections of the handbook.

## The Model

The test can be performed with virtually any Thermal Soaring Glider model and launch may be by Hand Tow, Bungee, Winch or Aero-Tow. However the landing requirement may be difficult using a glider without some form of airbrakes fitted. The test will not be taken with electric powered gliders as the Silent Flight Electric 'B' Certificate would be more appropriate to that type of model.

The use of a gyro or autopilot is not allowed during the test. If any such system is fitted to the model it must be disabled during the test and you should check that this has been done.

Whatever model is brought by the candidate, it must be suitable to fly the manoeuvres required by the test they are taking. You do not have the authority to alter the required manoeuvres to suit a model and if, in your opinion, the model is unsuitable for the test then you should explain this to the candidate and tell them that they cannot use that model.

## **Launch Height, Flight Time and Weather**

The 'B' certificate candidate should be a confident pilot.

The test states that "If insufficient height is achieved at launch or very bad sink is encountered that will not allow the completion of the entire test schedule the Examiner may allow an additional flight. If in the opinion of the Examiner a poor launch height is due to pilot ability the test is failed."

Possible factors that can lead to low launch height must be separated into two categories.

The first category are things the Pilot should be aware of and has control over i.e. too small or weak a Bungee for the model size or the incorrect model. The second category is of things the Pilot does not directly control i.e. a crossed line, the hand tower having a problem, or the winch snagging.

The first category events are normally test failures, the second need to be considered on a case by case basis. If you are happy the Pilot could not have foreseen the problem and was behaving in a reasonable and safe manner then they should not be penalised. Any emergency should of course be safely dealt with and a failure to do so will result in a failed test. A special mention should be made of "Pop-Offs" on launch as these can fall in either category and so you will have to use your judgement on any such occurrence.

As thermal gliders are far more affected by the conditions than most models even full launch height may not give sufficient flight time for the full test. If conditions are difficult the Examiner should discuss whether the model is suitable in "these conditions" and thus whether the test should be attempted. Remember the use of a "suitable model" is the candidate's responsibility and so it is their decision whether to attempt the test. For example a fast flying F3B style may easily cope with a day which would be impossible with a simple lightweight Rudder/Elevator design.

However, the test is not about performance, it is about aircraft handling and a well flown model in conditions not really suitable for it does deserve credit.

## **Consistency**

The combination of reasonable launch height and good speed control should mean that the model will be flying at a gently decreasing height throughout most of the test and you should note if height is lost unnecessarily.

It is a requirement that "All manoeuvres must be carried out in airspace pre-determined by the Examiner and Candidate prior to the commencement of the test flights". Thus any "no fly zones" need to be identified and discussed prior to the flight. This conversation is also the examiners chance to clearly identify the landing target and agree with the candidate the required landing pattern that is being looked for.

Somewhat inconsistent flight paths are not necessarily reasons to fail the candidate but they do give you a good indication of the pilot's general level of competence and could influence your final decision. Very poor positioning is a sure sign that the pilot has not practised the test and is a legitimate reason to fail them.

## **Continuity**

Although the manoeuvres are set out in such a way that they can be flown one after the other as a schedule, this is NOT what is expected. There will normally be additional sections of flight to position the model for the next element. You, of course, should be watching any extra sections just as carefully as the rest of the flight as they can tell you a lot about the competence of the flyer.

## **Trim**

It is expected that the candidate will start the test with a model that has been trimmed out previously but they should be able to trim the model out in the air if necessary. If you see obvious signs that the model is out of trim and the candidate does not make any attempt to rectify the matter you should seriously question their basic competence.

On the other hand, if they do need to re-trim and are making attempts to do so, you should make allowances for a short time of flight with a somewhat erratic flight path. This should not be penalised unless it puts the model in any danger or unless the model flies into any unsafe area.

## **Nerves**

Quiet competence is what you are looking for during the flight but most candidates will be nervous and you should make some allowance for this. If the flyer is very nervous you should seriously consider abandoning the test for the time being and offering the candidate a coaching flight or two to settle them down before re-taking the test. This can be done on the same day and can really help those candidates who have trouble with nerves when flying in a test situation.

## **Repeating Manoeuvres**

At 'B' certificate level the candidate should be competent to fly the manoeuvres with very few errors. If you see any major faults the test should be taken again. It may be, however, that the candidate will make a minor mistake on a manoeuvre and if you are not fully satisfied with what you have seen you should consider asking for the manoeuvre to be repeated.

Some judgement is called for on your part here. A major mistake is grounds for failing the candidate, especially if loss of control has occurred or a dangerous situation has arisen. You should definitely not let them have multiple tries at each manoeuvre until they get it right but you must give yourself the best chance of assessing the competence of the pilot you are testing.

You should consider what you have seen the model do and if you think to yourself "could be better" then a request that the manoeuvre be repeated may be considered. Be extremely careful about using this option, however, as you could very easily be degrading the worth of the test. It must not, under any circumstances, degenerate into a series of 'practice' manoeuvres. An added complication with a gliding test is the height and thus flight time available to complete the manoeuvres if repeats are requested.

## **Repeating the Test**

The rules allow two attempts at the test in a day. If the candidate fails the first of these you must consider their performance in deciding what to do next. Many failures will be reasonably good pilots or they could be borderline cases. In these circumstances it might be appropriate to offer one or two coaching flights and then a repeat of the test. Remember that many of the candidates will be unfamiliar with flying under pressure and might do very well on the second test.

On the other hand, it will probably be obvious to you on many occasions that the pilot you are testing is simply not ready for the test they are taking. In this situation it is better that you tell them so quite clearly. A little coaching at this point along with areas to practice, is far more useful to everyone than simply telling the candidate that they have failed.

## **Helpers for Disabled Candidates, Young Candidates and Others who have requested help during the Test**

When disabled or young candidates present themselves for the test it may be that they will not physically be able to perform all the actions that most candidates can. At times, other candidates may also request help with certain physical aspects during the test (they may, for instance, have an injured finger). There will be times when you, as an Examiner, will think 'how much can I relax the test requirements for this person'.

Some Examiners make the decision to make no allowances at all but this effectively bars many people from attempting the tests. If we think of the achievement scheme as a true national scheme then we must consider how we can accommodate candidates, not how we can stop them from participating.

The answer, of course, is that you, as an Examiner, must make on-the-spot decisions about what you will allow during the test and, in such cases, you are within your authority to take such decisions. The guidelines set out below may help but at all times the two items at the end of this section must take precedence. They are not negotiable and mean that, whoever the candidate is, they have to convince you that they know what they are doing or what is happening for the full duration of the test.

For instance, a disabled flyer may have difficulty handling the model and may not be able to carry it out, release it for the launch or retrieve it after the flight. The sensible use of a helper is certainly allowable in such cases but it is essential that they only do what the candidate asks them to do. Pre-flight checks and towing signals may be another problem area that can be overcome by a helper but you should expect the candidate to do as much of the work as possible themselves and they should be able to talk you through anything that the helper does for them. Be sure to discuss all this with the candidate before starting the test.

### **In all cases:**

- (1) If, at any time, the helper takes over the decision making process from the candidate then the candidate must fail.**
- (2) You can make no allowances whatsoever for anyone during the flying of the test. The candidate can either perform the flight manoeuvres as specified or they can't. If they can't then they must not be passed.**

**Make sure in your briefing that both the candidate and the helper are fully aware of both of these points.**

## The Flights

### **(a) Carry out pre-flight checks as required by the BMFA safety codes.**

The pre-flight checks are laid out clearly in the BMFA handbook. The candidate should also go through the pre-flying session checks, also laid out in the handbook. Ask the candidate to go through their checks as if the test flight was their first flight of the day. Particular attention should be given to airframe, tow hook, control linkages and surfaces.

Points to look for are that the candidate has a steady and regular ground routine, which should include inspecting the launch apparatus. Nerves may play a part but you should satisfy yourself that the candidate is actually in control of what they are doing when preparing their aircraft for flight.

Pay particular attention to the way the candidate uses the local frequency control system and make sure that they understand it and use the correct sequence of 'get the peg, Tx on, Rx on'. Also watch carefully and take note that the transmitter controls, trims and switches are checked by the pilot.

Any candidate who switches their radio on before checking the frequency control system should be failed on the spot.

If there is no one else available then there is nothing to stop you aiding the candidate by holding the model and releasing it at the start of the launch but any such actions must be performed by you directly on the instructions of the candidate. You must not prompt them or carry out any actions of your own accord. Talk this over with the candidate in your pre-flight briefing.

The candidate must be fully familiar with any failsafe system fitted to the model and should brief you on the system and demonstrate it working at some time during the pre-flight checks.

Generally, they must show that they are paying particular attention to the 'transmitter on - receiver on' sequence.

### **(b) Check the launching equipment is laid out correctly, securely and safely with respect to the field layout.**

**Depending on the launch method, ensure that;**

- \* The towline is in good condition**
- \* That the bungee is securely anchored to the ground**
- \* That winches and turnaround pulleys are secure and a master on/off switch is fitted to the winch. If using a winch the candidate should be aware of the cut-off facilities to stop the winch and should brief any helper accordingly**
- \* If aerotow is to be used, the tug pilot is aware of the model he will be towing, that a launch plan is agreed and that the release mechanisms on both the Tug and the Glider are functioning correctly.**

Generally an aerotow line will be approximately 50 to 75 metres in length and will have an identification pennant attached. The candidate should check the suitability and condition of the line and make sure that any pennant is attached directly to the line itself and not to any of the line fixings.

**(c) Check that the launch area and landing area are clear both on the ground and in the air and, after complying with the site frequency control system, prepare the model for launch. If a helper is used to launch the model they should be fully briefed as to what is required**

If using a winch the candidate should be aware of the cut off facilities available to stop the winch and they should brief any helper accordingly. Many pilots prefer a helper to "drive" the Winch and this is acceptable. This helper may also release the glider for launch. The normal helper rules apply and the candidate must clearly be in charge.

**(d) Clearly announce "launching" and launch the model under full control, any deviation from the expected launch path must be corrected smoothly and quickly. Complete the launch by releasing the model from the launch line cleanly and level the model into wind without stalling.**

The Launch should be clearly under control and any deviations smoothly and swiftly corrected. The launch should appear competent and whilst you are not looking for the highest launch possible a reasonable height should be achieved. A "Ping" (dive under tension to convert line tension into kinetic energy) at the top of the launch is common amongst more experienced pilots but is not required in this Test. If a Ping is used then you should watch carefully for a stall at the top of any climb out. As the requirement states "without stalling" any stall must be taken as a fail.

**(e) Fly the model straight and level for at least 15 seconds while pilot and Examiner clear the launch area.**

This manoeuvre should place the model upwind of any tow/launch area and in a position where the following manoeuvres can safely be performed (i.e. the thermal circles drifting with the wind should not cause the model to enter any no-fly area. Discuss this with the candidate before the test.

The following steps are optional but must be performed at least once in the group of three flights.

**(f) Fly the model through either a half loop or half roll to inverted, hold straight, controlled inverted flight for a minimum of five seconds and then half loop or half roll back to level flight.**

This manoeuvre should be as smooth as possible. A thermal soaring glider with a large amount of dihedral will not track straight when inverted and this should be allowed for. As long as the flight path whilst inverted is corrected back to the starting heading after any deviation then that is OK. The Examiner should probably agree to count the five seconds or at least indicate that they feel the five seconds is complete to avoid any confusion with the candidate.

**(g) Fly the model on a thermal search pattern. The model is to pass over three points, agreed with the Examiner prior to the start of the flight (e.g. corners of the field).**

This manoeuvre should be flown above the minimum flight speed of the model and as stated pass over three pre agreed points. If lift is found during the search then a smooth transition

into the next task is allowed but this is not mandatory. If the lift is found early in the task then the search phase can be re-flown between steps (h) and (i) on the way upwind.

**(h) Fly the model through consecutive 360 degree thermal turns to a position a minimum of 100m down wind of the pilot. The model should gain height if in lift or be flown with minimum loss of height if no lift is found.**

This manoeuvre should focus on a smooth rate of turn. The model will appear to speed up (downwind) and slow down (upwind) if there is a breeze. This is to be expected and is the correct result.

A weak pilot may try to slow the model whilst it flies downwind and speed it up into wind rather than allowing it to fly smoothly. If this results in an erratic motion or stalling of the plane then the examiner should mark the pilot down.

If this manoeuvre is flown in rising air it will rarely be smooth and so the examiner should make allowance for turbulence affecting the model. The gaining of height is desirable and shows the strength of the pilot, however it is not a mandatory requirement and smooth descending circles are allowed (a pilot who avoids lift to fly in smooth air must be suspect).

**(i) Fly the model a minimum of 150m up wind of the pilot with minimum loss of height.**

This manoeuvre should be a smooth flight (normally above the minimum flying speed of the aircraft) forwards to an agreed position approximately 150m upwind. Verbal agreement between the examiner and candidate during the flight is allowed as distance judgement at height is very subjective.

The statement "Minimum loss of height" may cause some confusion as it can be argued the best speed to penetrate is quite fast (especially if it is windy). The examiner should look for a positive move upwind. The choice of actual speed is the candidate's decision but any excessive dive or conversely any very slow flight should be penalised.

**(j) Gain speed and perform a stall turn into wind.**

This manoeuvre should include gaining speed in a gentle dive, followed by a flat entry (to establish the starting height) and then a pull up into a vertical climb. A degree of yaw will need to be achieved before the speed decays too much (as there is no Prop Wash, the glider must be yawed over before it stalls). The model should then rotate to the down vertical (there may be a tendency for gliders with high dihedral to roll as well at this point, which is acceptable if smoothly corrected) and then accelerate and pull out at the entry height.

**(k) Fly the model across wind and stall, recover with minimum loss of height, still heading across wind.**

This manoeuvre should be a gentle reduction of speed until the stall occurs and then a straight dive and recovery with minimal height loss. A lot of gliders (due to the high Aspect ratio wing) will drop a wing in the stall and this should be smoothly corrected. The dropping of a wing should not be an issue if the correct heading is maintained as much as possible.

**(l) Turn the model down wind and stall, recovering with minimum loss of height on the same heading down wind.**

This manoeuvre should be a gentle reduction of speed until the stall occurs and then a straight dive and recovery with minimal height loss. A lot of gliders (due to the high Aspect ratio wing) will drop a wing in the stall and this should be smoothly corrected. The dropping of a wing should not be a issue if the correct heading is maintained as much as possible.

**The following steps are included in every flight.**

**(m) Fly the model up wind to prepare the model for the landing phase. Call "landing" and fly a down wind leg, followed by a crosswind leg and final approach. The crosswind leg may be a continuous turn if preferred and it may be stretched past the centre line of the landing approach to allow control of height but the model must be flown back to the centre line for the final approach. The whole approach should be flown smoothly with no stalling and the turns should have reasonably large radii.**

A reference point should have been agreed before the flight for a suitable upwind position. Reaching the point exactly is not critical but you are looking for the pilot to fly smoothly into the agreed area and then position themselves at a suitable height for landing.

Watch head movements that show the candidate is checking the landing area is clear. When the candidate is happy the landing area is clear they should make a clear call of landing loud enough to be audible to the other flyers. The circuit should remain out in front of the pilot and thus allow them to keep the landing area in view at all times. A pilot should not fly around themselves.

Lift or sink in the circuit can cause any pilot to be too high or too low. How the candidate adjusts circuit lines and speed will tell you a lot about their competence.

If the landing area is congested and the candidate is not sure it will clear in time, they may need to nominate an alternative area. How you view this is at your discretion. If you are happy they did the safe and sensible thing then you should not penalise them. However if you feel they were out of position or used this as an excuse then you should fail them. An important point to note is the decision should be taken and clearly stated before the landing is commenced.

**(n) Land the model into wind within 10 metres of a predetermined spot.**

This is probably where a weak candidate will fail the flying tests, especially if they are flying a glider without airbrakes or one where the airbrakes have strong secondary effects.

You are looking for a smooth landing and not a 45 degree dive into the ground. The judgement of height on the landing circuit will have been critical to this phase. A step approach with strong brakes deployed is allowed, but a smooth round out and landing is expected.

Things to watch out for are the pilot who realises he is too high and then dives rather than slows down (thus covering more ground, the opposite of what he wants) and conversely the pilot who is too low and slows the model down. Both examples show a fundamental lack of understanding and whilst not enough to fail the test on their own, they are a good pointer to a weak candidate.

**(o) Retrieve the model from the landing area, informing other pilots that the landing area is clear.**

The candidate should NOT take their transmitter with them when retrieving their model and it should be left with a competent person. If no one else is available to hold it then you should offer. When the model has been retrieved and returned to the launching area the transmitter should be returned to the pilot. There is no requirement to turn off the model and transmitter (and then clear frequency control, etc.) if the next flight will be made immediately.

**(p) Complete post-flight checks required by the BMFA Safety Codes.**

What is required here will be dependant on how smooth a landing was achieved. Any abrupt stop or collision with a fixed object would warrant a full structural and control surface check. A smooth landing will only need a visual and control movements check.

As safety is the main driver the candidate may choose to perform a full check after each flight and this should not be discouraged.

**Repeat the above schedule (d-p) twice more, giving a total of three flights.**

If the launch apparatus is available immediately there is no requirement to power off Rx then Tx and return to the pits. The three flight group can either be completed immediately in one go or with delays as launch apparatus is re-set etc. The only hard requirement is that the frequency control system of the site must be complied with and the frequency cleared if the model will not be re-flown immediately.

**Once the three flights are complete return to the pits.**

After schedule point (o) has been completed for the third flight the candidate and examiner should return to the pits area. The post-flight checks (p) should be completed in the pits and the frequency control system cleared.

Check that the pilot observes the correct powering off sequence and clears the frequency control system in a timely manner.

## **IMPORTANT NOTES**

### **Number of Flights, Manoeuvres to be completed and Total Flight Time**

The test specification lays out the following conditions

**The pilot must perform three flights and all sections (f) to (l) must be completed sometime during those three flights, nominating before each launch which parts will be attempted. Sections (a) to (e) and (m) to (o) apply to each individual flight.**

**If the pilot has completed all tasks in 1 or 2 flights they must still perform the total of three flights. In this case the Examiner may ask for any of tasks (f) to (l) to be repeated in the third flight. The cumulative flight time for three flights is to be more than 12 minutes.**

You must discuss these requirements carefully with the candidate and be prepared to modify your expectations depending on the manoeuvres executed on the first and second flights.

Although the candidate should nominate the manoeuvres to be attempted on a flight, this can quite easily change depending on the quality of the air encountered so you must remain flexible in your requirements. If the candidate encounters 'good' or 'bad' air, they should be informing you of the fact so that you both have a good idea of how the flight is going. You may find that you will have to reduce expectations if bad air is encountered but good air and an extended flight time may enable more manoeuvres than planned to be completed.

Don't forget, however, that the test is not a thermal catching exercise, it is a test of aircraft handling.

**If insufficient height is achieved at launch or very bad sink is encountered that will not allow the completion of the test schedule the Examiner may allow an additional official flight. If in the opinion of the Examiner a poor launch height is due to pilot ability the test is failed.**

This gives you even more leeway to allow for bad air or poor launches that are not the candidate's fault but you should only use this option in fairly exceptional circumstances and the candidate should not rely on the 'fourth flight option' in any way.

In addition, the decision to offer a fourth flight is yours alone, the candidate cannot be allowed to influence your decision. If you consider that the three flights taken should have led to all the manoeuvres being completed but they haven't then the candidate should fail.

### The Questions

The candidate then "must answer correctly a minimum of eight questions on safety matters, based on the BMFA Safety Codes for General Flying and local flying rules."

Remember that on no account can good performances on the questions make up for a flying test that you considered a failure. If you have failed the candidate's flying you should not even start to ask the questions. On the other hand the achievement scheme is a test of both flying ability and knowledge. It doesn't matter how well the candidate can fly, if they cannot answer the safety questions they should not pass.

How many questions you should actually ask will depend on the circumstances at the time. For instance, if the candidate has done a good flying test and answers the first five questions with confidence then you need go no further. An acceptable test but with some rough edges can be offset to an extent by the candidate performing well in the first five questions.

A candidate who has done a test which you found only just acceptable and who hesitates on the questions should be asked a few more than five and if you are not satisfied that they have actually read the safety codes, you should not hesitate to fail them.

There is some debate as to whether a list of 'approved' questions should be published for examiners to use. Current opinion is that if such a list is published then candidates will also be able to study the list and will not need to study the BMFA handbook and this is probably not a good idea.

As an examiner, however, you should prepare yourself thoroughly for any testing that you do and you may wish to sort out your own personal and private list of sensible questions. Don't forget that you can use any local rules which you know and which the candidate should be aware of.

Remember that the majority questions you ask are to be BASED on the BMFA Safety Codes; you are not expected to ask them 'parrot fashion' and the candidate is not expected to answer that way either.

This opens up the possibility of asking a candidate if they can think of reasons behind specific rules. For instance, why is the club frequency control system operated as it is and

what might go wrong? or why should operating transmitters not be taken out when retrieving models from an active flying area?

Some of the questions must cover the special rules pertaining to public display flying, which may cause a negative comment from the pilots as in most cases they will have no intention to do so. However it must be pointed out that a B in any discipline can often be taken into account by a show organiser. Hence there is an importance of demonstrating knowledge of the special codes relating to display flying. It is better that this is explained to the candidate in advance of him coming forward for the test to avoid a surprise or an adverse reaction when such questions are posed.

### **Administration**

There are specific forms for Examiners to use during the Silent Flight Thermal 'B' test, and if you do not have one then a call to the BMFA Leicester office will have some in the post to you by return.

Completed forms should be sent to the Leicester office within seven days of the test and, whilst they must be filled in by the Examiner, they may be sent in to the office by either the Examiner or the Candidate. You should take great care that all the details are filled in correctly, especially the successful candidates **NAME** and their **BMFA number** (this can save a great deal of confusion). If the candidate is not a BMFA member then it is especially important that you get their name and address correct and in full.

This is very important as what is seen on the pass form is what will appear on the final certificate. It is embarrassing for you to have to send one back to be re-done and it gives the candidate a definite impression of sloppy work by someone.

**Issue 1            Ratified by Areas Council, 10<sup>th</sup> June, 2006**

**Issue2            Ratified by Areas Council, 31<sup>st</sup> January , 2009**

## Examiners and Candidates Check List

The following is a short checklist of matters to discuss with the candidate taken from this document. This checklist can be used to ensure that all points raised above have been discussed with the pilot prior to any flights:

- 1 Has the candidate read: -  
The BMFA handbook  
Local site rules (if applicable)  
'Safety Code for General Flying'  
'Operational Guide, All Models and Radio Control'  
And the Display Safety Code.
- 2 Discuss whether the model is suitable in "these conditions"
- 3 Any "no fly zones" need to be identified
- 4 Remind candidate to talk you through anything that the helper does for them as the test progresses (includes Tug pilot briefing if an aerotow is being used)
- 5 Agree model position after the launch and straight flight tasks (d & e) are completed
- 6 Agree any Airspace requirements that need to be pre-determined by the Examiner and Candidate prior to the commencement of the test flights
- 7 Clearly identify the landing target and agree with the candidate the required landing pattern that is being looked for (This includes the upwind position from which the manoeuvre starts). Possibly agree the general area to be used in the case of a baulked landing.

## ‘B’ CERTIFICATE (SILENT FLIGHT - THERMAL)

### Examiners Test Flight Check List

Candidates Name	BMFA Number	Date	Examiners
FLIGHT TASK	COMMENTS - FLIGHT 1	COMMENTS - FLIGHT 2	COMMENTS - FLIGHT 3
(a) Carry out all pre-flight checks as required by the BMFA Safety Codes			
(b) Check that the launching equipment is laid out correctly			
(c) Check that the launch area and landing area are clear, ground and air			
(d) Call “launching” and launch the model			
(e) Fly straight and level for at least 15 seconds			
(f) Half loop or half roll to inverted, hold straight, controlled inverted flight for a minimum of five seconds, half loop or half roll back to level flight			
(g) Fly a thermal search pattern, the model to pass over three points			
(h) Fly consecutive 360° thermal turns to a minimum of 100m down wind			
(i) Fly the model a minimum of 150m up wind			
(j) Perform a stall turn into wind.			
(k) Fly a cross wind stall			
(l) Fly a down wind stall			
(m) Call “landing” and fly an approach			

(n)	Land the model into wind within 10 metres of a predetermined spot			
(o)	Retrieve the model from the landing area			
(p)	Complete post-flight checks required by the BMFA Safety Codes			
<p><b>This is a 3 flight schedule.</b></p> <p><b>Each of the items (f) to (l) must be flown at least once during those 3 flights. This does not mean that all of them must be flown on every flight.</b></p>				
<p>Answer at least 8 questions on safety matters from the BMFA Safety Codes for <b>General Flying and Local Flying Rules</b></p>				

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