

MODEL AERONAUTICAL ASSOCIATION OF AUSTRALIA



GUIDELINES FOR THE AWARD OF M.A.A.A. WINGS

MOP027

APPROVED: M.A.A.A. PRESIDENT

05/09/03

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GUIDELINES FOR THE AWARD OF M.A.A.A. WINGS

1. PURPOSE

- 1.1 The purpose of this publication is to provide all affiliated members of the M.A.A.A. a documented standard and process for the award of M.A.A.A. Flight Proficiency Scheme Wings.

2. RESPONSIBILITIES

- 2.1 The M.A.A.A. has a duty of care to affiliated model aircraft operators and clubs to specify conditions and regulations under which models are flown, so that a level of safety, that could reasonably be expected, is achieved.
- 2.2 The State Association is responsible to maintain records of proficiency ratings of their affiliate members for Bronze Wings, Gold Wings and M.A.A.A. Instructor rating.
- 2.3 The State Association is responsible to advise the M.A.A.A. Secretary of any new proficiency ratings of their affiliate members on a regular basis.
- 2.4 The State Senior Flight Instructor is responsible to advise the State Association of the names of those affiliate members that attain the Gold Wings and/or Instructor ratings.
- 2.5 Clubs and/or Instructors shall advise the State Association the names of affiliate members that attain the Bronze Wings rating.
- 2.6 The State Association is responsible for the distribution of the necessary forms and documents for the M.A.A.A. Flight Proficiency Scheme.

3. DEFINITIONS

Affiliate Member	A person properly affiliated with a Club that is properly affiliated to an M.A.A.A. Ordinary Member.
Instructor	An Affiliate Members who has been appointed or recognised by his/her Club and/or State Association to be competent to instruct Club members. See also the M.A.A.A. Instructor definition.
M.A.A.A.	Model Aeronautical Association of Australia Inc.
M.A.A.A. Ordinary Member	A State Association properly affiliated with the M.A.A.A. Inc
M.A.A.A. Instructor	An Affiliate Member who has successfully completed an M.A.A.A. Instructor training course.
Model Aircraft	See Dictionary
Ordinary Member	See M.A.A.A. Ordinary Member

Radio Controlled Model Aircraft A non-man-carrying remote controlled device capable of sustained flight in the atmosphere not exceeding the weight limitations established in the M.A.A.A. Manual of Procedures. The operators of such devices shall maintain control without the assistance of onboard autopilots or navigation systems that would allow for autonomous flight. The operators of Radio Control devices shall maintain visual contact with the device during the entire flight operation.

State Association See M.A.A.A. Ordinary Member

4. TYPE OF M.A.A.A. WINGS/RATINGS

4.1 Fixed Wing Aircraft

M.A.A.A. Bronze and Gold wings are awarded for demonstrated proficiency to specified levels in flying radio-controlled fixed-wing aircraft.

4.1.1 Bronze Wings is a standard that the M.A.A.A. regards as being suitable for flying solo.

4.1.2 Gold Wings is the standard that the M.A.A.A. regards as being suitable for flying at a public display.

4.2 Helicopters.

M.A.A.A. Bronze and Gold wings are awarded for demonstrated proficiency to specified levels in flying radio-controlled helicopters.

4.3 M.A.A.A. Instructor

The M.A.A.A. Instructor's rating is awarded for demonstrated proficiency to Gold Wing standard, proven knowledge in instructional training as specified in the M.A.A.A. Instructor's Manual and knowledge of Rules and Regulations relating to the flying of model aircraft.

5. BASIS OF DETERMINATION OF PROFICIENCY.

5.1 Fixed Wing Powered Aircraft.

Proficiency in flying of radio controlled fixed wing powered aircraft is determined by assessing the way the pilot executes the procedures/manoeuvres listed on the "Flight Requirements & Test Check Sheet - Fixed Wing Power Bronze Wings", M.A.A.A. Form No. MAAA016, and "Flight Requirements & Test Check Sheet - Fixed Wing Power Gold Wings", M.A.A.A. Form No. MAAA017. See Annexes A1 and A2.

5.2 Glider Aircraft.

Proficiency in flying of radio controlled glider aircraft is determined by assessing the way the pilot executes the procedures/manoeuvres listed on the "Flight Requirements & Test Check Sheets - Glider Bronze Wings", M.A.A.A. Form No. MAAA018, and "Flight Requirements & Test Check Sheet - Glider Gold Wings", M.A.A.A. Form No. MAAA019. See Annexes B1 and B2.

5.3 Helicopters.

The basis for determining proficiency in flying radio-controlled helicopters is determined by assessing the way the pilot executes the procedures/manoeuvres

listed on the "Flight Requirements & Test Check Sheets - Helicopter Bronze Wings", M.A.A.A. Form No. MAAA020, "Flight Requirements & Test Check Sheet - Helicopter Gold Wings", M.A.A.A. Form No. MAAA021 and "Flight Requirements & Test Check Sheets - Helicopter Gold Wings", M.A.A.A. Form No. MAAA022. See Annexes C1, C2 and C3.

6. **ASSESSMENT OF PROFICIENCY**

- 6.1 The testing of proficiency of a candidate for the award of either Gold or Bronze Wings must be assessed by at least one M.A.A.A. Instructor (fixed wing or helicopter as appropriate).
- 6.2 The Senior Flight Instructor of each State/Territory Association controls the awarding of M.A.A.A. Instructor proficiency ratings.

7. **AWARD OF WINGS**

Note: The one-week between tests does not apply if a session is interrupted or ended by weather or other circumstances beyond the candidate's control.

7.1 **General**

Following the successful completion of the test the examining Instructor shall ensure that the appropriate "Flight Requirements & Test Check Sheet" form or the form provided in the Trainee Pilot Logbook is completed, signed and sent to the State/Territory Association to enable the maintenance of records and distribution of the Wings.

7.2 **Bronze Wings**

7.2.1 Fixed Wing Aircraft - Powered.

Bronze wings are awarded by an M.A.A.A. Instructor when the member demonstrates in the course of one session, which shall include the theory and flight requirements, that he/she has the competent basic skills set out in the "Flight Requirements & Test Check Sheet - Fixed Wing Power Bronze Wings", M.A.A.A. Form No. MAAA016. See Annex A1.

At least one week must elapse between consecutive tests of a candidate for bronze wings.

7.2.2 Glider Aircraft.

Bronze wings are awarded by an M.A.A.A. Instructor when the member demonstrates in the course one session, which shall include the theory and flight requirements, that he/she has the competent basic skills set out in the "Flight Requirements & Test Check Sheet - Glider Bronze Wings", M.A.A.A. Form No. MAAA018. See Annex B1.

7.2.3 Helicopters.

Bronze wings are awarded by an M.A.A.A. Instructor when the member demonstrates in the course of one session, which shall include the theory and flight requirements, that he/she has the competent basic skills set out in the "Flight Requirements & Test Check Sheet - Helicopter Bronze Wings", M.A.A.A. Form No. MAAA021. See Annex C1.

7.3 **Gold Wings.**

7.3.1 Fixed Wing Powered Aircraft.

Gold wings are awarded by an M.A.A.A. Instructor when the member demonstrates, in the course of one flying session comprising of up to four flights, that he/she has the competent basic skills to perform the manoeuvres listed the "Flight Requirements & Test Check Sheet - Fixed Wing Power Gold Wings", M.A.A.A. Form No. MAAA017. See Annex A2.

Procedures and manoeuvres common to all flights shall be assessed on every flight to confirm consistency of standard. (One good landing out of four would not be acceptable).

At least one week must elapse between testing sessions of a candidate.

7.3.2 Glider Aircraft

As for Fixed Wing Powered Flight Gold Wings except that the manoeuvres are as listed in "Flight Requirements & Test Check Sheets - Glider Gold Wings", M.A.A.A. Form No. MAAA020. See Annex B2.

7.3.3 Helicopter

As for Fixed Wing Powered Aircraft except that the manoeuvres are listed in "Flight Requirements & Test Check Sheets - Helicopter Gold Wings", M.A.A.A. Form No. MAAA022. See Annex C2.

7.4 **M.A.A.A. Instructor Rating**

- 7.4.1 The certification and testing of M.A.A.A. Instructor Rating is supervised and controlled by the State Association's Senior Instructor.
- 7.4.2. Preferably Instructor trainees shall have some previous instructional experience and be nominated by their club to attend the appropriate training.
- 7.4.3 Trainee Instructors will attend and successfully complete an M.A.A.A. Instructor's course that will culminate in a written text based on Rules and Regulations and the M.A.A.A. Instructor's Manual.
- 7.4.4 To be eligible to be considered for an M.A.A.A. Instructor the Trainee shall be of Gold Wings flight proficiency. Senior Instructors need to be mindful of the fact that some pilots that have Gold Wings may not have the necessary experience for Instructor rating as it is necessary for Instructors to have a high proficiency standard with the type of models that members normally start their training.
- 7.4.5 To qualify for the M.A.A.A. Helicopter Instructor the member must also demonstrate that he/she has the competent basic skills to perform the manoeuvres listed "Flight Requirements & Test Check Sheets - Helicopter Instructor Rating", M.A.A.A. Form No. MAAA022. See Annex C3.

8. SUPPLY OF WINGS

The M.A.A.A. Secretary retains stocks of wings for State Associations to obtain stock.

8.1 **Bronze wings**

Bronze Wings may be supplied to a club for distribution to their members by the M.A.A.A. through the State Association, or directly by the State Association, at a

cost determined by the M.A.A.A. Council. A levy may not be charged for testing for bronze wings proficiency nor are wings to be sold.

A cost may be imposed for the supply of a replacement set of Bronze Wings.

8.2 **Gold Wings**

Gold Wings are distributed by the State Senior Flying Instructor. Gold Wings shall be supplied to the State Associations at a cost determined by the Executive. The wings may not be sold.

There is a charge for the supply of Gold Wings.

8.3 **M.A.A.A. Instructor Wings**

M.A.A.A. Instructor Wings are distributed by the State/Territory Senior Flying Instructor. M.A.A.A. Instructor Wings shall be supplied to the State Associations at a cost determined by the Executive. The wings may not be sold.

ANNEX A1



M.A.A.A. FLIGHT PROFICIENCY SCHEME

FLIGHT REQUIREMENTS & TEST CHECK SHEET

FIXED WING POWERED – BRONZE WINGS

The requirements specified have been determined by the M.A.A.A. and are not to be varied

Bronze Wings (Power) are awarded when a member demonstrates, in the course of one session that he/she has the competent basic skills as set out in the tasks listed below.

This is to certify that AUS

Of P/Code

Club **Note address on back of form if wings to be sent to Club**

Has demonstrated the degree of proficiency in radio controlled flying of model aircraft to be awarded the M.A.A.A. Bronze Wings (Power).

M.A.A.A. Instructor's Name Signature

At the successful completion of the test this form shall be completed by the Instructor and sent to the State Association. **Note; Wings will be sent to Pilot unless Club address in noted on back of this sheet.**

1. **DEXTERITY**
Pilot must be able to locate all the transmitter controls quickly without fumbling.
2. **THEORY**
Pilot must be able to name all major components of the aircraft and define functions including effect of controls and have a thorough knowledge of safety rules and regulations.
3. **AIRFRAME & PRE-FLIGHT CHECK**
Check engine mounting, plumbing, centre of gravity location, throttle setting, under-carriage secure, and signs of structural or covering problems that could effect flight eg. Controls neutral and control throws correct, presence of warps which could effect trim, state of battery and range check.
4. **TAKE OFF :**
Use gradual application of power while keeping the aircraft straight, and using a little elevator to lift off, then making a gentle climb out with wings level until safe altitude is reached.
5. **TRIMMING**
Pilot to show ability to trim aircraft in flight. Displacement and re-trimming both the primary roll control and elevator should be demonstrated.
6. **PROCEDURE TURNS – One in each direction:**
The pilot's ability to perform the following steps in the procedure turn will be monitored.
 - a. Level flight segments should be straight and level.
 - b. Aircraft should pass directly over the landing area.
 - c. Turns should be at a constant altitude.
 - d. Turns should be completed in order that upwind and downwind tracks are superimposed.
7. **LANDING CIRCUITS :**
In both directions, as shown in the diagram in the M.A.A.A. Pilot Log Book, with all turns of 90 degrees. With high performance aircraft the power needs to be reduced much sooner than at the turn onto base leg. The upwind and downwind legs are parallel to the landing strip. The first three legs are maintained at a constant height and a gradual approach angle is started at the beginning of the base leg.
8. **APPROACH & LANDING :**
With engine assisted landings (approximately 1/4 power or suitable power setting depending on the model set-up allowing the model to descend under power) control nose attitude and therefore airspeed with elevators and use the throttle to place the aircraft where you want it to be. The aircraft should be flown over the threshold at an altitude of about 1.5 metres, the throttle closed, and as the aircraft settles towards the ground the round-out or flare is initiated. The "hold-off" period is then commenced where the aircraft is gradually allowed to sink and settle on the ground in a slightly nose high attitude.
9. **SIMULATED DEAD STICK LANDING :**
At a safe and high position the student will reduce the throttle to idle and perform a descending circuit to show his/her ability to safely glide the model without engine power to a position where a landing approach can be executed.

ANNEX A2



M.A.A.A. FLIGHT PROFICIENCY SCHEME
FLIGHT REQUIREMENTS & TEST CHECK SHEET
FIXED WING POWERED – GOLD WINGS

This Test is to be assessed by an M.A.A.A. Instructor.

The requirements specified have been determined by the M.A.A.A. and are not to be varied

Gold Wings (Power) are awarded when a member demonstrates, in the course of one session of no more than 4 consecutive flights, that he/she has the competent skills as set out in the manoeuvres listed below.

This is to certify that AUS

Of P/Code

Club **Note address on back of form if wings to be sent to Club**

Has demonstrated the degree of proficiency in radio controlled flying of model aircraft to be awarded the M.A.A.A. Gold Wings (Power).

M.A.A.A. Instructor's Name Signature

At the successful completion of the test this form shall be completed by the M.A.A.A. Instructor and sent to the State Association together with the fee of \$6-00 for the processing and award of the M.A.A.A. Gold Wings (Power). Cloth Gold Wing badges are also available for \$2-50.

Note; Wings will be sent to Pilot unless the Club address is noted on back of this sheet.

This flying Proficiency Examination must be completed in not more than four flights. The flight may be undertaken over a period of two separate days. Weather conditions, i.e. wind direction and type of aircraft, i.e. Trainer, Sports or Aerobatic must be allowed for.

	Manoeuvres	Flight 1	Flight 2	Flight 3	Flight 4
1.	Pre-flight - Dexterity with equipment - Theoretical knowledge - Pre-flight checks				
2.	Start-up, taxi and positioning for take-off				
3.	Take-off				
4a	Outward Figure of Eight, left to right.				
4b	Outward Figure of Eight, right to left.				
5a	Inward Figure of Eight, left to right.				
5b	Inward Figure of Eight, right to left.				
6a	Procedure Turn, 90 ⁰ to 270 ⁰ , left to right.				
6b	Procedure Turn, 90 ⁰ to 270 ⁰ , right to left.				
7a	Immelman Turn, left to right.				
7b	Immelman Turn, right to left.				
8a	Three Inside Loops, left to right.				
8b	Three Inside Loops, right to left.				
9a	Cuban Eight, left to right.				
9b	Cuban Eight, right to left.				
10	Spin, three turns.				
11a	Inverted Flight, five seconds, left to right.				
11b	Inverted Flight, five seconds, right to left.				
12a	Three Horizontal Rolls, left to right.				
12b	Three horizontal Rolls, right to left.				
13a	Landing Circuit, left to right.				
13b	Landing Circuit, right to left.				
14	Landing, roll-out and stop.				

ANNEX B1



M.A.A.A. FLIGHT PROFICIENCY SCHEME
FLIGHT REQUIREMENTS & TEST CHECK SHEET

GLIDER – BRONZE WINGS

The requirements specified have been determined by the M.A.A.A. and are not to be varied

Bronze Wings (Glider) are awarded when a member demonstrates, in the course of one session, that he/she has the competent basic skills as set out in the tasks listed below.

This is to certify that AUS

Of P/Code

Club **Note address on back of form if wings to be sent to Club**

Has demonstrated the degree of proficiency in radio controlled flying of model aircraft to be awarded the M.A.A.A. Bronze Wings (Glider)

M.A.A.A. Instructor's Name Signature

At the successful completion of the test this form shall be completed by the M.A.A.A. Instructor and sent to the State Association.

Note; Wings will be sent to Pilot unless the Club address is noted below.

Bronze Wings (Glider) (demonstrate twice with reverse direction of landing pattern)

	Manoeuvres	Test
1	Dexterity Pilot must be able to locate all the transmitter controls quickly without fumbling.	
2	Theory; Pilot must be able to name all major components of the aircraft and define functions including effect of controls and have a thorough knowledge of safety rules and regulations	
3	Airframe & Pre-Flight Check; Check centre of gravity location and signs of structural or covering problems that could effect flight e.g. Controls neutral and control throws correct, presence of warps which could effect trim, state of battery and range check.	
4	Launch	
5	Straight flight from low release for 30 seconds into wind.	
6	180 degree turn overhead to perform a figure eight.	
7	Rectangular approach pattern and a good landing with F.A.I. landing circle (15 metres circle).	

At least one week must elapse between testing sessions of a candidate

Wings to be sent to Pilot, YES / NO – If NO note address below
Strike out as applicable

.....
.....
..... Post Code;

ANNEX B2



M.A.A.A. FLIGHT PROFICIENCY SCHEME
FLIGHT REQUIREMENTS & TEST CHECK SHEET

GLIDER – GOLD WINGS

The requirements specified have been determined by the M.A.A.A. and are not to be varied

Gold Wings (Glider) are awarded when a member demonstrates, in the course of one session, that he/she has the competent basic skills as set out in the tasks listed below.

This is to certify that AUS

Of P/Code

Club **Note address on back of form if wings to be sent to Club**

Has demonstrated the degree of proficiency in radio controlled flying of model aircraft to be awarded the M.A.A.A. Gold Wings (Glider)

M.A.A.A. Instructor's Name Signature

At the successful completion of the test this form shall be completed by the M.A.A.A. Instructor and sent to the State Association together with the fee of \$5-00 for the processing and award of the M.A.A.A. Gold Wings.

Note; Wings will be sent to Pilot unless the Club address is noted below.

Task One

	Manoeuvres	Flight 1	Flight 2	Flight 3	Flight 4
1	Rise off Ground Launch				
2	5 seconds inverted flight				
3	2 consecutive loops				
4a	2 tied 360 degree turns. (in each direction immediately following each other)				
4b	2 tied 360 degree turns – reverse				
5	Rectangular approach pattern, a good landing with 3 metres of a spot.				

Task Two – Slope

	Manoeuvres	Flight 1	Flight 2	Flight 3	Flight 4
1	Launch				
2	Fly model to approximately 500 feet				
3	10 seconds inverted flight				
4	2 consecutive inside loops				
5	1 outside loop.				
6	Flight time must exceed 10 minutes.				
7	Model must be landed within 100 feet of launching point.				

At least one week must elapse between testing sessions of a candidate

Wings to be sent to Pilot, YES / NO – If NO, note address below
Strike out as applicable

.....

..... Post Code;

ANNEX C1



M.A.A.A. FLIGHT PROFICIENCY SCHEME
FLIGHT REQUIREMENTS & TEST CHECK SHEET

HELICOPTER – BRONZE WINGS

The requirements specified have been determined by the M.A.A.A. and are not to be varied

Bronze Wings (Helicopter) are awarded when a member demonstrates, in the course of one session that he/she has the competent basic skills as set out in the tasks listed below.

This is to certify that AUS

Of P/Code

Club **Note address on back of form if wings to be sent to Club**

Has demonstrated the degree of proficiency in radio controlled flying of model aircraft to be awarded the M.A.A.A. Bronze Wings (Helicopter).

M.A.A.A. Instructor's Name Signature

At the successful completion of the test this form shall be completed by the Instructor and sent to the State Association.

Note; Wings will be sent to Pilot unless Club address is noted below.

	Manoeuvres	Flight
1	Pre-flight Training (must completed prior to flying) Dexterity of the pilot with his equipment Theoretical knowledge. Pre-flight checks including radio range checks	
2	Lift off to eye-level height, hover for ten seconds and land.	
3	Lift off to skid eye-level height, brief hover followed by a straight outward flight of ten metres into wind, brief hover then return tail first in straight flight and land.	
4	Lift off to skid eye-level height and fly sideways (right or left) for ten metres, then sideways in the opposite direction for twenty metres then return to start point and land.	
5	Lift off, briefly hover then fly a horizontal figure eight with nose into wind throughout the flight and land.	
6	Lift off to skid eye-level height and fly a 360-degree tail-in circle.	
7	Execute a 45-degree landing pattern from ten metres height and ten metres out	

At least one week must elapse between testing sessions of a candidate

Wings to be sent to Pilot, YES / NO – If NO note address below
Strike out as applicable

.....
..... Post Code;

ANNEX C2



MODEL AERONAUTICAL ASSOCIATION OF AUSTRALIA

FLIGHT PROFICIENCY SCHEME

FLIGHT REQUIREMENTS & TEST CHECK SHEET

HELICOPTER - GOLD WINGS

This Test is to be assessed by an M.A.A.A. Instructor.

The requirements specified have been determined by the M.A.A.A. and are not to be varied

Gold Wings (Helicopter) are awarded when a member demonstrates, in the course of one session of no more than 4 consecutive flights, that he/she has the competent skills as set out in the manoeuvres listed below.

This is to certify that AUS

Of P/Code

Club **Note address on back of form if wings to be sent to Club**

Has demonstrated the degree of proficiency in radio controlled flying of model aircraft to be awarded the M.A.A.A. Gold Wings (Helicopter).

M.A.A.A. Instructor's Name Signature

At the successful completion of the test this form shall be completed by the M.A.A.A. Instructor and sent to the State Association together with the fee of \$5-00 for the processing and award of the M.A.A.A. Gold Wings (Helicopter).

Note; Wings will be sent to Pilot unless the Club address is noted below.

Gold Wings Test. (Additional to Bronze Wings Test).

Procedures and manoeuvres common to all flights shall be assessed on every flight to confirm consistency of standard. (One good landing out of four would not be acceptable). At least one week must elapse between testing sessions of a candidate.

	Manoeuvres	Test 1	Test 2	Test 3	Test 4
1 to 7	Bronze Wings Test				
8	Take off and complete the Hovering M manoeuvre.				
9	Demonstrate Pirouette clockwise and counter-clockwise.				
10	Demonstrate a Top Hat from right to left and from left to right from the one standing position.				
11	Demonstrate one 180 degree Stall Turn.				
12	Demonstrate one loop.				
13	Fly a rectangular circuit prior to landing.				
14	Complete an emergency landing when called by the Instructor.				

At least one week must elapse between testing sessions of a candidate

Wings to be sent to Pilot, YES / NO – If NO note address below
Strike out as applicable

.....

..... Post Code;

ANNEX C3



M.A.A.A. FLIGHT PROFICIENCY SCHEME
FLIGHT REQUIREMENTS & TEST CHECK SHEET

HELICOPTER – INSTRUCTOR RATING

This Test is to be assessed by an M.A.A.A. Instructor.

The requirements specified have been determined by the M.A.A.A. and are not to be varied

Instructor Rating (Helicopter) is awarded when a member who demonstrates;

- (i) In the course of one session of no more than 4 consecutive flights, that he/she has the competent skills as set out in the tasks listed below. The test shall done with the next manoeuvre immediately following the previous one, and.
- (ii) Successfully completing the M.A.A.A. Instructors Course.

This is to certify that AUS

Of P/Code

Club **Note address on back of form if wings to be sent to Club**

Has demonstrated the degree of proficiency in radio controlled flying of model aircraft required to be awarded the M.A.A.A. Gold Wings (Helicopter). Note, the successfully completing the M.A.A.A. Instructors Course is also required to be awarded the M.A.A.A. Instructors (Helicopter) rating.

M.A.A.A. Instructor's Name Signature

Instructor Rating Test (additional to Gold Wings Test).

	Manoeuvres	Flight 1	Flight 2	Flight 3	Flight 4
1 to 14	Gold Wings Test				
15	After take-off demonstrate a nose-in circle both clockwise and counter clockwise.				
16	Demonstrate a 540 degree Stall Turn.				
17	Demonstrate one roll from the right and from the left.				
18	Demonstrate a Horizontal Figure Eight in front of the pilot at cruise speed from the right and from the left.				
19	Full auto rotate landing, engine off at call.				

At least one week must elapse between testing sessions of a candidate