FLIGHT TEST GUIDE

Recreational Pilot Permit

AEROPLANE

Third Edition

April 2005
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This flight test guide sets out the techniques, procedures and the marking criteria that will be used by Civil Aviation Inspectors and Pilot Examiners for the conduct of the flight test required to demonstrate the skill requirements for the issuance of the Recreational Pilot Permit - Aeroplane.

Flight Instructors are expected to use this guide when preparing candidates for flight tests. Candidates should be familiar with this guide and refer to the qualification standards during their training.

Detailed descriptions and explanations of the items as numbered on the flight test form can be found by referring to the corresponding chapter number in the *Flight Training Manual* published under the authority of Transport Canada.

**Definitions**

‘flight test item’ means a task, manoeuvre or exercise listed on the flight test report.

‘examiner’ means a Pilot Examiner accredited under section 4.3 of Part 1 of the *Aeronautics Act* or a Civil Aviation Inspector authorized to conduct this flight test.

Vertical sidebars at the left margin indicate text with changes from the previous edition that may affect the performance standard expected and the evaluation of the flight test item. Text changes for the purpose of clarification or grammatical correction are not indicated.

For more information, visit our web site at

http://www.tc.gc.ca/CivilAviation/QualityAssurance/QA/complaints/filing.htm

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**GENERAL**

**Admission to Flight Test**

In order to be admitted to a flight test required for the issuance of a Recreational Pilot Permit – Aeroplane, or a complete re-test, and meet the requirements of CAR 421.14, the candidate will present:

(a) photo identification;

(b) a valid permit, licence or a foreign pilot licence issued by a contracting state;

(c) proof of meeting the medical standards for the Recreational Pilot Permit – Aeroplane;

(d) a letter from a qualified flight instructor certifying that:

(i) the instructor has personally completed a pre-flight test evaluation with the candidate;

(ii) the candidate is considered to have reached a sufficient level of competency to complete the flight test for the issuance of the Recreational Pilot Permit – Aeroplane; and

(iii) the instructor recommends the candidate for the flight test.

(e) evidence of having completed a minimum of 25 hours total flight time in aeroplanes.

**Admission to a Partial Flight Test**

A partial flight test must be conducted within 30 days following the date of the failed complete flight test. Prior to admission to a partial flight test, the candidate will provide the requirements of (a), (b) and (c) above, and:

(a) a copy of the flight test report for the previously failed flight test; and

(b) a letter, signed by the holder of a valid Flight Instructor Rating - Aeroplane, certifying that the candidate:

(i) has received further training on the failed flight test item(s)

(ii) is considered to have reached a sufficient level of competency to successfully complete the flight test; and

(iii) is recommended by the instructor for the flight test.

**Letters of Recommendation**

Letters of recommendation must be dated within 30 days prior to the flight test and, in the case of a candidate recommended by a Class 4 flight instructor, the letter must be co-signed by the supervising instructor. In the case of a re-test, the person who conducted the additional training will sign the letter of recommendation.
Aircraft and Equipment Requirements

The candidate will provide:

(a) an aeroplane that:

(i) has a flight authority pursuant to CAR 507 and that authority has no operating limitations that prohibit the performance of the required manoeuvres; and

(ii) meets the requirements of CAR Standard 425.23 Training Aircraft Requirements – subsections (1) and (2) of the Personnel Licensing Standards.

(b) appropriate current aeronautical charts and Canada Flight Supplement.

Flight Test

All of the required flight test items required by the flight test report and described in this guide must be completed and the minimum pass mark for the Recreational Pilot Permit of 42 (50%) must be achieved.

All flight tests will be conducted when weather permits safe completion of the required items, the aeroplane is airworthy and the candidate and the aircraft’s documents, as required by the Canadian Aviation Regulations, are valid. It is the sole responsibility of the examiner to make the final decision as to whether or not any portion or all of the flight test may be conducted.

Ground flight test items are those exercises or tasks performed prior to the pre-flight inspection of the aircraft.

Air flight test items are those exercises, tasks or manoeuvres performed with the aircraft, including the pre-flight inspection, start-up, run-up, taxiing and emergency procedures.

Ground items 2A to 2C will be assessed before the flight portion of the flight test.

Repeated Flight Test Item

A flight test item or manoeuvre will not be repeated unless one of the following conditions applies:

(a) Discontinuance: Discontinuance of a manoeuvre for valid safety reasons; i.e., a go-around or other procedure necessary to modify the originally planned manoeuvre.

(b) Collision Avoidance: Examiner intervention on the flight controls to avoid another aircraft, which the candidate could not have seen due to position or other factors.

(c) Misunderstood Requests: Legitimate instances when candidates did not understand an examiner’s request to perform a specific manoeuvre. A candidate’s failure to understand the nature of a specified manoeuvre being requested does not justify repeating an item or manoeuvre.

(d) Other Factors: Any condition under which the examiner was distracted to the point that he or she could not adequately observe the candidate’s performance of the manoeuvre (radio calls, traffic, etc.).

Note: These provisions have been made in the interest of fairness and do not mean that instruction, practice, or the repeating of an item or manoeuvre, that was unacceptably demonstrated, is permitted during the flight test evaluation process.
Incomplete Flight Test

If the test is not completed due to circumstances beyond the candidate’s control, the subsequent flight test will include the flight test items not completed on the original flight test and will be completed within the 30 days of the original letter of recommendation.

The following process will apply:

a) a copy of the flight test report must be given to the candidate;
b) the flight test may be completed at a later date;
c) the test may be completed by the same or another examiner;
d) the original letter of recommendation remains valid;
e) flight test items already assessed will not be re-tested, but items already demonstrated during the initial flight, and repeated for the purpose of the second flight, may be re-assessed as “Below Standard” (1), if the candidate displays unsafe or dangerous flying;
f) the original flight test report may be used to complete the test, or two separate reports may be submitted;
g) the candidate is permitted to complete additional training while awaiting completion of the test.

If the initial flight test included one or two failed air flight test items, the partial flight test for these items may be conducted during the subsequent flight test flight, after the candidate has completed all of the required items, provided:

a) the minimum pass mark has been achieved;
b) no additional items were failed during the subsequent flight test; and
c) a letter of recommendation for the partial flight test was received prior to the flight.

Failure of a Flight Test

Failure to obtain the minimum pass mark or the failure of any flight test item constitutes failure of the flight test. The failure of any ground item requires a complete re-test and precludes the air portion of the flight test. Ground items are not eligible for a partial flight test. The failure of one or two air items will require a partial flight test on those items, and the failure of a third air item will require a complete re-test.

The examiner will stop a test, assess it “Below Standard”, and a complete re-test will be required if the candidate jeopardizes safety by:

a) displaying unsafe or dangerous flying; or
b) demonstrating a pattern of failing to use proper visual scanning techniques to check for traffic before and while performing visual manoeuvres.

Following a failed flight test, the candidate will obtain a copy of the flight test report to meet the requirements for admission to a partial flight test.

If not satisfied with the outcome of the flight test, a candidate may wish to file a written complaint regarding the conduct of a flight test or the performance of an examiner with the Transport Canada Regional Office responsible for that pilot examiner. In order to succeed with a complaint, the applicant will have to satisfy Transport Canada that the test was not properly conducted. Mere dissatisfaction with the flight test result is not enough. After due consideration of the individual case, the Regional Superintendent – Flight Training, may authorize a re-test to be conducted, without prejudice (with a clean record in regard to the disputed flight test), by a Civil Aviation Inspector or alternate pilot examiner. Should the complaint not be addressed to the candidate’s satisfaction, the procedure to be followed is outlined in ‘Civil Aviation Complaint Filing Procedures’. The document can be found at: http://www.tc.gc.ca/CivilAviation/QualityAssurance/QA/complaints/filing.htm.
Partial Flight Test

Provided that the applicable pass mark has been achieved and there are no more than two failed air flight test items, the skill requirement for licence issue may be met by completing a partial flight test of the item or items assessed “Below Standard”.

The candidate will be required to successfully perform the air item(s) assessed as “Below Standard” on the complete flight test. Flight test items not associated with the items(s) to be retested, but repeated for the purpose of the second flight, may be re-assessed as “Below Standard” if their aim is not achieved or safety is compromised.

The partial flight test must be completed within 30 days of the original complete flight test. No more than one partial flight test will be allowed for each complete flight test.

Use of Flight Simulator or Flight Training Device

For a partial flight test, and at the discretion of the examiner, a Level 3, 5 or 6 flight training device approved in accordance with CAR 606.03, Synthetic Flight Training Equipment that reproduces the aeroplane type used for the failed flight test may be used to re-test Exercise 29, Emergency Procedures.

Complete Re-test

A complete re-test will be required in the following situations:

(a) the required pass mark is not obtained during a complete flight test;
(b) failure of any ground item;
(c) failure of more than two air items during a complete flight test;
(d) failure of a flight test item during a partial flight test;
(e) dangerous flying;
(f) a demonstrated pattern of failing to use proper visual scanning techniques is displayed during the flight test; or
(g) a partial flight test is not completed within 30 days of the original complete flight test.

Pre-Test Briefing

Flight test examiners are required to brief test candidates on the following details:

(a) **The sequence of flight test items.** There is no need for the candidate to memorize this sequence, as the examiner will give instructions for each item.
(b) **If in doubt - Ask!** Candidates who do not clearly understand what they are being asked to do should feel free to ask. It may be that the examiner was not clear in giving instructions.
(c) **Who is pilot-in-command?** The pilot-in-command should be the flight test candidate and, if the examiner is a Transport Canada employee, it will always be the flight test candidate.
(d) **Who will do what in the event of an actual emergency?** A briefing by the candidate should detail the actions to be taken by the candidate and examiner in the event of an actual emergency.
(e) **How to transfer control.** There should never be any doubt who is flying the aircraft, so proper transfer of control using phrases such as “You have control” and “I have control” is expected during a flight test. A visual check is recommended to verify that the exchange has occurred.
(f) **Ground references.** Intended touchdown zones and specific touchdown points. For the short or soft field approach and landing, the examiner will clearly specify the simulated surface conditions, obstacles on approach, runway threshold and length of surface available to the candidate.
(g) **Method of simulating emergencies.** What method will be used? Verbal? Engine failures will only be simulated in accordance with the manufacturer’s recommendations or, in their absence, by closing the throttle or by reducing power to flight idle. The moving of mixture controls to idle cut-off will only be used where specifically recommended by the manufacturer. The practice of closing fuel valves, shutting off magneto switches or pulling circuit breakers will not be used during a flight test.

**Flight Management**

Flight management refers to the effective use of all available resources, including working with such groups as dispatchers, other crewmembers, maintenance personnel, and air traffic controllers. Poor performance of an exercise or task can often be explained by weaknesses in flight management competencies.

**Problem Solving and Decision Making**

a) anticipates problems far enough in advance to avoid crisis reaction  
b) uses effective decision-making process  
c) makes appropriate inquiries  
d) prioritizes tasks to gain maximum information input for decisions  
e) makes effective use of all available resources to make decisions  
f) considers “downstream” consequences of the decision being considered

**Situational Awareness**

(a) actively monitors weather, aircraft systems, instruments, ATC communications  
(b) avoids “tunnel vision” - awareness that factors such as stress can reduce vigilance  
(c) stays “ahead of the aircraft” in preparing for expected or contingency situations  
(d) remains alert to detect subtle changes in the environment

**Communication**

(a) provides thorough briefings  
(b) asks for information and advice  
(c) communicates decisions clearly  
(d) asserts one’s position appropriately

**Workload Management**

(a) organizes cockpit resources well  
(b) recognizes overload in self  
(c) eliminates distractions during high workload situations  
(d) maintains ability to adapt during high workload situations

**Airmanship**

The candidate’s airmanship will be assessed along with other factors in determining the mark awarded for each item. Items such as looking out for other aircraft, use of checklists, consideration for other aircraft on the ground and in the air, choice of run-up areas, choice of runways and clearing the engine during prolonged glides will be assessed. The candidate will be expected to demonstrate good airmanship and complete accurate checks on a continuing basis.
Flight Test Results

The *Privacy Act* protects the privacy of individuals with respect to personal information about themselves held by a government institution. A flight test measures the performance of the candidate for the flight test, the examiner conducting the flight test, the instructor who recommended the candidate and, through identification of the Flight Training Unit responsible for the training, the performance of the Chief Flight Instructor of that unit. All of these are identified on the flight test report.

Personal information may be disclosed in accordance with Section 8(2)(a) of the *Act*, which allows disclosure..."for the purpose for which the information was obtained or compiled by the institution or for a use consistent with that purpose". The purpose for which flight test information is obtained is to ensure the safety of aviation in Canada. The specific purposes are to measure whether the candidate meets the minimum skill standard for the licence or rating, whether the recommending instructor is performing competently as an instructor, whether the examiner is conducting the test in accordance with the standards, and whether the Flight Training Unit is performing in accordance with the general conditions of the operator certificate.

In accordance with 8(2)(a) of the *Privacy Act*, a copy of the flight test report will be given to the candidate for a flight test and a copy will be retained by the examiner who conducted the flight test. A copy may also be given to the instructor who recommended the candidate for the flight test and to the Chief Flight Instructor responsible for the quality of flight training at the Flight Training Unit where the training was conducted. Specific information about the results of a flight test will not be given by Transport Canada to anyone but the individuals named on the flight test report, except in accordance with the *Privacy Act*.

Assessment of Flight Test Performance

The “*Performance Criteria*” section of each flight test item prescribes the marking criteria. These criteria assume no unusual circumstances as well as operation of the aeroplane in accordance with the manufacturer’s specifications, recommended speeds and configurations in the Pilot’s Operating Handbook/Aircraft Flight Manual (POH/AFM) or other approved data.

Throughout the flight test, the candidate is evaluated on the use of an appropriate checklist. Proper use is dependent on the specific task being evaluated. The situation may be such that the use of the written checklist, while accomplishing the elements of an “*Aim*”, would be either unsafe or impractical. In this case, a review of the checklist after the elements have been accomplished would be appropriate. Division of attention and proper visual scanning should be considered when using a checklist. It is acceptable for certain items to be verified from memory.

Consideration will be given to unavoidable deviations from the published criteria due to weather, traffic or other situations beyond the reasonable control of the candidate. To avoid the need to compensate for such situations, tests should be conducted under normal conditions, whenever possible.
4-Point Marking Scale

When applying the 4-point scale, award the mark that best describes the weakest element(s) applicable to the candidate’s performance. Remarks to support mark awards of 1 or 2 must link to a safety issue, a qualification standard, or an approved technique or procedure.

<table>
<thead>
<tr>
<th>4</th>
<th>Above Standard</th>
<th>Performance remains well within the qualification standards and flight management skills are excellent.</th>
<th>Performance is ideal under existing conditions. Aircraft handling is smooth and precise. Technical skills and knowledge exceed the required level of competency. Behaviour indicates continuous and highly accurate situational awareness. Flight management skills are excellent. Safety of flight is assured. Risk is well mitigated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Standard</td>
<td>Minor deviations occur from the qualification standards and performance remains within prescribed limits.</td>
<td>Performance meets the recognised standard yet may include deviations that do not detract from the overall performance. Aircraft handling is positive and within specified limits. Technical skills and knowledge meet the required level of competency. Behaviour indicates that situational awareness is maintained. Flight management skills are effective. Safety of flight is maintained. Risk is acceptably mitigated.</td>
</tr>
<tr>
<td>2</td>
<td>Basic Standard</td>
<td>Major deviations from the qualification standards occur, which may include momentary excursions beyond prescribed limits but these are recognized and corrected in a timely manner.</td>
<td>Performance includes deviations that detract from the overall performance, but are recognized and corrected within an acceptable time frame. Aircraft handling is performed with limited proficiency and/or includes momentary deviations from specified limits. Technical skills and knowledge reveal limited technical proficiency and/or depth of knowledge. Behaviour indicates lapses in situational awareness that are identified and corrected. Flight management skills are effective but slightly below standard. Safety of flight is not compromised. Risk is poorly mitigated.</td>
</tr>
<tr>
<td>1</td>
<td>Below Standard</td>
<td>Unacceptable deviations from the qualification standards occur, which may include excursions beyond prescribed limits that are not recognized or corrected in a timely manner.</td>
<td>Performance includes deviations that adversely affect the overall performance, are repeated, have excessive amplitude, or for which recognition and correction are excessively slow or nonexistent, or the aim of the task was not achieved. Aircraft handling is rough or includes uncorrected or excessive deviations from specified limits. Technical skills and knowledge reveal unacceptable levels of technical proficiency and/or depth of knowledge. Behaviour indicates lapses in situational awareness that are not identified or corrected. Flight management skills are ineffective. Safety of flight is compromised. Risk is unacceptably mitigated.</td>
</tr>
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How to Pass the Flight Test

Instructors prepare their students for the flight test with every training trip. They do this by helping the student master all the flight exercises, but they also let the student take more and more responsibility for decision-making with each lesson, so the student will be fully ready to make all the decisions during the flight test.

Here are some tips on how to pass the flight test:

(a) Review the flight test guide with your instructor before the flight test.

(b) An instructor will do a pre-test evaluation, a simulated flight test, before recommending you for the real test.

(c) Be rested.

(d) Arrive early.

(e) The test measures your skill, item by item. If you think you did poorly on one item, try very hard to focus on the immediate task and don’t let yourself be pre-occupied with an item you already completed. Besides, you may have done better than you thought.

(f) Don’t be afraid to ask the examiner if you are unsure what is expected of you. The examiner will either tell you what you need to know or tell you that you have to work with the information you have. You can’t lose by asking.

(g) Tell the examiner what you are planning to do before you do it.

(h) The flight test is not a race. Don’t put additional pressure on yourself by rushing.

(i) “Visualize” the flight test in advance by thinking through all the manoeuvres you will perform and developing mental pictures of what you are going to be doing.

(j) Difficult as this may be, try to think of the examiner as your very first passenger with your new licence. Keep the examiner informed, as you would keep a passenger informed.
EX. 2 Aeroplane Familiarization and Preparation for Flight

A. Documents and Airworthiness

Aim
To determine that the candidate can correctly assess the validity of documents required on board and, from these documents, determine that the aircraft is airworthy.

Description
The candidate must determine the validity of all documents required to be carried on board the aeroplane and determine that required maintenance certifications have been completed.

Performance Criteria
Assessment will be based on the candidate’s ability to:

(a) determine if the documents required on board are valid;
(b) determine the number of flying hours remaining before the next service or maintenance task;
(c) determine if the maintenance release ensures aeroplane serviceability and currency of inspection for the proposed period of flight;
(d) ensure that any conditions or limitations on the maintenance release can be complied with; and
(e) determine the impact of deferred defects on aeroplane operations for the proposed flight.

B. Aeroplane Performance

Aim
To determine that the candidate understands the recommended operating procedures, performance capabilities and limitations of the aeroplane being used for the flight test.

Description
The candidate will be required to demonstrate practical knowledge of recommended operating procedures, performance capabilities and limitations for the aeroplane to be used on the flight test. Essential performance speeds will be quoted from memory. Other aeroplane performance data, such as static take-off power RPM, may be determined from the POH/AFM.

Performance Criteria
Assessment will be based on the candidate’s ability to:

(a) State from memory the following speeds:
   (i) best angle of climb speed \( V_x \);
   (ii) best rate of climb speed \( V_y \);
   (iii) manoeuvring speed \( V_a \); and

(b) calculate, for the proposed flight the takeoff distance required to clear a 50 foot or existing obstacle;
C. Weight and Balance, Loading

Aim
To determine that the candidate can correctly complete weight and balance calculations for the aeroplane used for the flight test.

Description
The candidate will be required, using actual weights, to apply the approved weight and balance data and complete accurate computations for an assigned practical load requirement that addresses all or most of the passenger and baggage stations applicable to the aeroplane to be used in the test, including take-off weight and landing weight. If a loading graph or computer is available with the aeroplane, it may be utilized.

Knowledge of weight and balance graphs and envelopes, and the effect of various centre of gravity locations on the aeroplane flight characteristics will be demonstrated. Practical knowledge of how to correct a situation in which the centre of gravity is out of limits or in which the gross weight has been exceeded will be demonstrated.

Performance Criteria
Assessment will be based on the candidate’s ability to:
(a) determine if the take-off and landing weights and centres of gravity in each case are within permissible limits;
(b) demonstrate practical knowledge of how to correct a situation in which the centre of gravity is out of limits and/or in which the gross weight is exceeded; and
(c) explain the effect of various centre of gravity locations on aeroplane flight characteristics.
D. Pre-Flight Inspection (Air Item)

Aim
To determine that the candidate can complete internal and external checks in accordance with the POH/AFM and demonstrate practical knowledge of the aircraft.

Description
The candidate will determine that the aeroplane is ready for the intended flight. All required equipment and documents will be located and, so far as can be determined by pre-flight inspection, the aeroplane will be confirmed to be airworthy. Visual checks for fuel quantity, proper grade of fuel, fuel contamination and oil level will be carried out in accordance with the POH/AFM. If the aircraft design precludes a visual check, fuel chits, fuel logs or other credible procedures may be used to confirm the amount of fuel actually on board.

After the candidate has completed the pre-flight inspection, questions relating to the flight test aircraft will be asked. The candidate should be able to explain what appropriate action would be taken if an unsatisfactory item were detected or described by the examiner during the pre-flight inspection. The candidate should demonstrate knowledge of the consequences if such items were undetected.

Note: The external and internal checks must at least cover all of the items specified by the manufacturer.

The candidate will conduct an oral passenger safety briefing. Should the candidate omit the passenger safety briefing the examiner will ask the candidate to provide one.

Performance Criteria
Assessment will be based on the candidate’s ability to:

(a) use an orderly procedure to inspect the aeroplane including at least those items listed by the manufacturer or aeroplane owner;
(b) confirm that there is sufficient fuel and oil for the intended flight;
(c) verify that the aeroplane is in condition for safe flight;
(d) describe the appropriate action to take for any unsatisfactory item detected or described by the examiner;
(e) identify and verify the location and security of baggage and required equipment;
(f) organize and arrange material and equipment in a manner that makes the items readily available;
(g) perform an effective passenger safety briefing that will include:
   (i) the location and use of emergency exits, emergency locator transmitter, fire extinguisher
   (ii) smoking limitations
   (iii) use of seat belts
   (iv) items specific to the aeroplane type being used
   (v) action to take in the event of an emergency landing
   (vi) other items for use in an emergency.
E. Engine Starting and Run-up, Use of Checklists

Aim
To determine that the candidate can complete engine start, warm-up, run-up, correctness of control movements and system checks in accordance with the checklists or placards provided by the aircraft manufacturer or owner, completing at least those items in the POH/AFM.

Description
The candidate will use recommended procedures in engine starting, warm-up and run-up and check aeroplane systems and equipment to determine that the aeroplane is airworthy and ready for flight. The candidate will be asked to demonstrate or explain how to correct any unsatisfactory condition encountered or specified by the examiner.

Performance Criteria
Assessment will be based on the candidate’s ability to:
(a) demonstrate an awareness of other persons and property before and during engine start;
(b) use the appropriate checklist provided by the manufacturer or aeroplane owner;
(c) accurately complete the engine and aeroplane systems checks;
(d) check flight controls for freedom of operation and correct movement; and
(e) take appropriate action with respect to unsatisfactory conditions.

Ex 3 Operation of Aircraft Systems (Ancillary Controls)

Aim
To determine that the candidate can operate aircraft systems in accordance with the POH/AFM.

Description
The candidate will be expected to demonstrate practical knowledge of the operation of systems installed on the aeroplane being used for the flight test. Use of these systems will be evaluated both on the ground and in the air.

Performance Criteria
The candidate will operate the aeroplane systems in accordance with the POH/AFM and explain the operation of at least one of the following systems, as specified by the examiner:

(a) primary flight controls and trim
(b) flaps
(c) powerplant, including carburetor heat and mixture controls
(d) fuel or oil system
(e) electrical system
(f) flaps
(g) avionics system
(h) pitot-static system, vacuum/pressure system and associated flight instruments
(i) environmental system
(j) any other systems unique to the aeroplane.
**EX. 4  TAXIING**

*Aim*

To determine that the candidate can manoeuvre the aeroplane safely and avoid unnecessary interference with movement of other traffic.

*Description*

The candidate will be expected to taxi the aircraft to and from the runway in use and as otherwise required during the test. Provided that traffic and other conditions permit, the candidate will be expected to taxi along taxiway centrelines where they exist. The candidate will be expected to position the flight controls appropriately for wind conditions. During calm wind conditions, the examiner will specify a wind speed and direction in order to test this ability.

*Performance Criteria*

Assessment will be based on the candidate’s ability to:

(a) perform a brake check;
(b) safely manoeuvre the aeroplane, considering other traffic;
(c) use appropriate taxiing speeds;
(d) adhere to local taxi rules, procedures and ATC clearances and instructions;
(e) use flight controls and brakes correctly;
(f) identify and correctly interpret airport, taxiway and runway signs, markings and lighting;
(g) after landing, clear the runway area and taxi to suitable parking/refuelling area; and
(h) park the aeroplane properly, considering the safety of nearby persons or property.

**EX. 11  SLOW FLIGHT**

*Aim*

To determine the candidate’s ability to establish the aircraft in slow flight, maintain flight control, prevent a stall and recover promptly and smoothly to normal flight.

*Description*

At an operationally safe altitude that allows recovery at or above the altitude recommended by the manufacturer or 2,000 feet AGL, whichever is higher, the candidate will be requested to identify when the aeroplane is in the slow flight speed range and maintain flight control and transition to normal flight speeds when requested by the examiner.

*Performance Criteria*

Assessment will be based on the candidate’s ability to:

(a) complete appropriate safety precautions before entering slow flight;
(b) establish and maintain an airspeed that is 5 knots above the stall speed indicated by the appropriate arc or specified in the POH/AFM;
(c) demonstrate coordinated straight and level flight;
(d) prevent a stall and, on command, recover promptly and smoothly to normal flight; and
(e) maintain an effective lookout.

*Note:* One of the objectives of slow flight is to determine if the candidate can sense the performance of the wing at high angles of attack. Flight at 5 knots above the indicated stall speed for the configuration is ideal. The use of power and actual weights less than gross weight lower the actual stall speed enough to allow safe operation if the published indicated stall speed is used as a reference. An increase in airspeed while turning or in turbulence is acceptable as the stall speed increases in these conditions. Avoid prolonged periods in slow flight to prevent possible overheating of some engine components.
**Ex. 12 Stall**

*Aim*

To determine that the candidate can recognize indications of the approach to stalls, the full stall, and can accomplish a positive and smooth recovery with a minimum loss of altitude.

*Description*

At an operationally safe altitude that allows recovery at or above 2,000 feet AGL or the minimum height recommended by the manufacturer, whichever is higher, the stall manoeuvre will be entered from a reduced power situation. The examiner will specify the aeroplane configuration for the stall demonstration.

*Performance Criteria*

Assessment will be based on the candidate’s ability to:

(a) complete appropriate safety precautions before entering a stall;
(b) establish the specified configuration;
(c) transition smoothly to a pitch attitude that will induce a stall;
(d) recognize the onset of the stall by identifying the first aerodynamic buffeting or decay of control effectiveness;
(e) stall the aeroplane;
(f) maintain directional control;
(g) promptly and smoothly recover using control application in the proper sequence; and
(h) avoid secondary stall, excessive airspeed, or excessive altitude loss.

**Ex. 14 Spiral**

*Aim*

To determine that the candidate can recognize a spiral dive and effect a smooth, safe recovery to straight and level flight.

*Description*

The examiner will initiate this manoeuvre from an over-banked steep turn or an incorrect spin entry. Control will be given to the candidate when the spiral is established. On assuming control the candidate will be expected to commence recovery immediately.

Recovery will be completed at a height specified by the manufacturer, or no less than 2,000 feet above ground, whichever is greater.

*Performance Criteria*

Assessment will be based on the candidate’s ability to:

(a) promptly and smoothly recover using control application in the proper sequence; and
(b) return smoothly to straight and level flight without excessive loss of altitude and without exceeding any operating limitation of the aeroplane.
Ex. 15 Slipping

Aim
To determine that the candidate can demonstrate a slipping manoeuvre safely and effectively to lose altitude.

Description
The candidate will be required to demonstrate a forward slip or a slipping turn to lose altitude. Slipping may be assessed during any of the landing approaches, including the precautionary or forced landing approaches.

Performance Criteria
Assessment will be based on the candidate’s ability to:

(a) smoothly establish an effective slip;
(b) maintain a slip appropriate to the flight profile and crosswind conditions, where they exist;
(c) in the case of a forward slip, maintain the intended flight path and
(d) recover smoothly to coordinated flight;

**NOTE: Any significant skidding manoeuvre is unacceptable.**
EX. 16 TAKEOFF

The candidate will demonstrate:

(a) a normal takeoff; and
(b) a short-field takeoff, or a soft-field takeoff.

Where practicable, at least one of the takeoffs will be based on the previously calculated performance. If possible at least one of the takeoffs should be completed under crosswind conditions.

For the purpose of this exercise, the examiner may specify simulated conditions for the takeoff such as surface conditions, obstacles to be cleared and available runway length. ATC instructions and clearances must be complied with, where they are applicable.

**Note 1:** The candidate must be able to explain the operational necessity for any variation from recommended speeds, e.g. gusty or crosswind conditions.

**Note 2:** Prior to take-off, in the interest of better cockpit co-ordination, the candidate will complete a crew briefing with the examiner on the intended departure procedure, takeoff considerations and procedures to be used in the event of an actual engine failure during takeoff and initial climb.

A. Normal Takeoff

**Aim**

To determine the candidate’s ability to safely conduct a normal take off using the correct procedure and technique for the actual or simulated wind conditions, runway surface and length, and to assess the possibility of further conditions such as wind shear and wake turbulence.

**Description**

The candidate will conduct a takeoff from a prepared surface and will apply the recommended techniques and procedures for a normal takeoff.

**Performance Criteria**

Assessment will be based on the candidate’s ability to:

(a) complete appropriate checklists;
(b) position the flight controls and configure the aeroplane for the existing conditions;
(c) check for traffic, taxi into the take-off position, and align the aeroplane on the runway centreline;
(d) advance the throttle smoothly to take-off power;
(e) confirm that take-off power has been achieved;
(f) rotate at recommended airspeed (+10/-5 knots);
(g) accelerate to and maintain recommended climb speed (+10/-5 knots);
(h) maintain take-off power to a safe height, then, where applicable, set climb power;
(i) eliminate drift and track along runway centreline and extended centreline; and
(j) complete appropriate checks.
B.1 Short-Field Takeoff

Aim
To determine the candidate’s ability to safely take off from a short field, using the correct procedure and technique for the actual or simulated wind conditions, runway length and obstacles to be cleared, and to assess the possibility of further conditions such as wind shear and wake turbulence.

Description
For the purpose of this exercise, the examiner will specify simulated conditions, available runway length and obstacles to be cleared for the short-field takeoff.

Performance Criteria
Assessment will be based on the candidate’s ability to:
(a) complete appropriate checklists;
(b) specify a GO/NO GO decision point to the examiner;
(c) position the flight controls and flaps for the existing conditions;
(d) check for traffic, taxi into position for maximum utilization of available take-off distance;
(e) advance the throttle smoothly to take-off power while holding brakes, or as specified by the manufacturer;
(f) confirm static take-off power has been achieved;
(g) maintain directional control during the take-off roll;
(h) rotate at the recommended airspeed (+10/-5 knots);
(i) accelerate to and maintain recommended climb speed (+10/-5 knots);
(j) retract flaps, where applicable, at a safe height;
(k) maintain take-off power to a safe height, then, where applicable, set climb power;
(l) maintain proper drift correction in the climb; and
(m) complete appropriate checks.
B.2 Soft-Field Takeoff

Aim

To determine the candidate’s ability to safely take off from a soft or unprepared surface using the correct procedure and technique for the actual or simulated wind conditions, runway surface and length, and to assess the possibility of further conditions such as wind shear and wake turbulence.

Description

For the purpose of this exercise, the examiner will specify simulated conditions for the soft-field takeoff such as surface conditions, obstacles to be cleared and available runway length.

Performance Criteria

Assessment will be based on the candidate’s ability to:

(a) complete appropriate checklists;
(b) position the flight controls and flaps for the existing conditions;
(c) specify a GO/NO GO decision point to the examiner;
(d) check for traffic, taxi onto the take-off surface at a safe speed and align the aeroplane, without stopping, while advancing the throttle smoothly to take-off power;
(e) confirm take-off power has been achieved;
(f) establish and maintain a pitch attitude that will effectively and efficiently transfer the weight of the aeroplane from the wheels to the wings;
(g) maintain directional control during the take-off roll;
(h) lift off at minimum possible airspeed;
(i) remain in ground effect after takeoff while accelerating to recommended climb speed;
(j) maintain recommended climb speed (+10/-5 knots);
(k) retract flaps, where applicable, at a safe height;
(l) maintain take-off power to a safe height, then, where applicable, set climb power;
(m) maintain proper drift correction in the climb; and
(n) complete appropriate checks.
**Ex. 17  Circuit**

* Aim
To determine that the candidate can operate the aeroplane in a safe manner in the vicinity of an aerodrome.

* Description
The candidate will demonstrate correct circuit procedures for the aerodrome where the test is conducted, including departure and joining while maintaining separation from other aircraft.

* Performance Criteria
Assessment will be based on the candidate’s ability to:
- (a) fly an accurate circuit maintaining correct position and separation from other aircraft;
- (b) comply with published circuit entry and departure procedures;
- (c) comply with published and established traffic patterns;
- (d) correct for wind drift to maintain proper ground track;
- (e) remain oriented with the runway/landing area in use;
- (f) maintain circuit altitude (±100 feet) and an appropriate airspeed; and
- (g) complete appropriate checklists.

**Ex. 18  Approach and Landing**

The candidate will be required to demonstrate:
- (a) a normal landing;
- (b) a short field landing or soft field landing; and
- (c) an overshoot.

Assessment of approaches and landings will be based on the candidate’s ability to select the proper approach profile for the actual or simulated conditions. Where practicable, at least one of the landings will be based on the previously calculated performance. If possible, at least one of the landings should be completed under crosswind conditions.

* Note: The candidate must be able to explain the necessity for any variation from recommended speeds, e.g. gusty or crosswind conditions.
A. Normal Approach and Landing

_Aim_
To determine the candidate’s ability to execute a normal approach and landing as recommended by the POH/AFM or published best practices.

_Description_
The candidate is expected to conduct a normal approach and landing using the correct recommended procedure and technique for the actual wind conditions, landing surface and length or those specified by the examiner, to assess the possibility of further conditions such as wind shear and wake turbulence.

_Performance Criteria_

**A. Normal Approach and Landing - Performance Criteria**
Assessment will be based on the candidate’s ability to:

(a) consider the wind conditions, landing surface and obstructions;
(b) establish the recommended approach and landing configuration;
(c) maintain a stabilized approach at the recommended airspeed, or in its absence, 1.3 Vso (+10/-5 knots);
(d) maintain crosswind correction and directional control throughout the approach and landing;
(e) make smooth, timely and correct control applications during the approach and landing;
(f) touch down, in the first one third (1/3) of the runway, in accordance with the POH/AFM or best accepted practice for the aeroplane type;
(g) touch down with no drift and with the longitudinal axis aligned with and over the runway centreline/landing path.
(h) apply brakes as necessary, without excessive lockup or skidding; and
(i) complete appropriate checks.

B. Short-Field and Soft-Field Landings

_Aim_
To determine the candidate’s ability to execute a short-field approach and landing or a soft-field approach and landing as recommended by the POH/AFM or published best practices.

_Description_
For the short or soft-field approach and landing, the examiner will clearly specify the simulated surface conditions, obstacles on approach, landing threshold and length of surface available to the candidate. Should the candidate realize, prior to the landing flare, that a short-field landing couldn’t be achieved in the intended touchdown zone, an overshoot for a second attempt is acceptable.
B.1 Short-Field Approach and Landing - Performance Criteria

Assessment will be based on the candidate’s ability to:
(a) perform an effective passenger safety review;
(b) consider the wind conditions and actual or simulated landing surface and obstructions;
(c) select the most suitable touchdown zone and specify a touchdown point;
(d) execute the initial approach using recommended airspeeds and configurations;
(e) fly a final approach profile that clears any actual or simulated obstacle, and results in the appropriate configuration and one of the following speeds at a height of 50 feet:
   (i)  the recommended final approach speed (+10/-5 knots); or
   (ii) 1.3 Vso (+10/-5 knots); or
   (iii) the minimum safe speed for existing conditions e.g. gusty or crosswind conditions.
(f) maintain crosswind correction and directional control throughout the approach and landing;
(g) make smooth, timely and correct control applications during the landing flare and touchdown;
(h) touch down at the specified touchdown point (+200/-50 feet) in accordance with the POH/AFM or best accepted practice for the aeroplane type;
(i) touch down with no side drift and with the longitudinal axis aligned with and over the runway centreline/landing path;
(j) apply brakes, without excessive lockup or skidding and stop safely in the shortest distance; and
(k) complete appropriate checks.

B.2 Soft-Field Approach and Landing - Performance Criteria

Assessment will be based on the candidate’s ability to:
(a) perform an effective passenger safety review;
(b) consider the wind conditions, obstructions and actual or simulated landing surface;
(c) select the most suitable touchdown zone;
(d) execute the initial approach using recommended airspeeds and configurations;
(e) fly a final approach profile that clears any actual or simulated obstacle, and results in the appropriate configuration and one of the following speeds at a height of 50 feet:
   (i)  the recommended final approach speed (+10/-5 knots); or
   (ii) 1.3 Vso (+10/-5 knots); or
   (iii) the minimum safe speed for existing conditions e.g. gusty or crosswind conditions;
(f) maintain crosswind correction and directional control throughout the approach and landing;
(g) touch down softly using power as necessary to achieve the landing attitude for the slowest possible touch down on the main wheels, while preventing nose wheel or tail cone contact with the ground;
(h) touch down in the first one third (1/3) of the runway, with no side drift and with the longitudinal axis aligned with and over the runway centreline/landing path;
(i) maintain the required nose-up control during the landing roll; and
(j) complete appropriate checks.

C. Overshoot - Performance Criteria

Aim

To determine the candidate’s ability to execute an overshoot as recommended by the POH/AFM or published best practices.

Description

The overshoot may be called for by the examiner and assessed from any of the landing approaches, the forced landing or precautionary landing.
**Performance Criteria**

Assessment will be based on the candidate’s ability to:

(a) respond upon command to overshoot or make a timely decision to discontinue the approach to landing;
(b) promptly and smoothly apply maximum allowable power and establish the pitch attitude that will stop the descent;
(c) retract flaps in stages or as recommended by the manufacturer;
(d) retract the landing gear (where applicable) after a positive rate of climb is established, or as recommended by the manufacturer;
(e) accelerate to and maintain the recommended climb speed (+10/–5 knots);
(f) maintain maximum allowable power to a safe manoeuvring altitude then, where applicable, set climb power; and
(g) complete the appropriate checks.

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**EX. 21 PRECAUTIONARY LANDING**

**Aim**

To determine the candidate’s ability to carry out the procedure for evaluating an unfamiliar airstrip or a landing area where the suitability of the landing surface is unknown.

**Description**

The examiner will assign a suitable landing area. The candidate will determine the landing path and the suitability of the landing surface and use a planned procedure to fly an accurate approach. While an actual landing may not be required, the final approach flown should be such that a successful landing could have been accomplished in the pre-selected touchdown zone.

**Performance Criteria**

Assessment will be based on the candidate’s ability to:

(a) brief the passenger for landing;
(b) select the most suitable touchdown zone considering wind conditions, landing surface and obstructions;
(c) comply with circuit procedures;
(d) establish circuits at an appropriate distance from the runway or airstrip;
(e) establish the recommended approach and landing configuration;
(f) maintain a stabilized approach and recommended airspeed (+10/–5 knots);
(g) overfly the landing area in stabilized flight that will permit an effective assessment of surface conditions and maintain a safe obstacle clearance altitude;
(h) indicate the type of landing to be used and perform a final approach in a manner that would permit touch down within the selected touchdown zone;
(i) maintain crosswind correction and directional control throughout the approach and landing; and
(j) complete appropriate checks.

**Note:** The candidate must be able to explain the operational necessity for any variation from recommended speed, e.g. gusty or crosswind conditions.
EX. 22 FORCED LANDING

Aim
To determine that the candidate can, in the event of an engine failure, select a suitable landing area, and fly a successful approach.

Description
Engine failure will be simulated without advance warning by the examiner in accordance with the method recommended by the manufacturer. The candidate will be expected to select a suitable area and, by using an organized procedure, fly a successful approach to that field, while accomplishing the required emergency procedures. The overshoot will be carried out when requested by the examiner at an operationally safe altitude.

Performance Criteria
Assessment will be based on the candidate’s ability to:
(a) initiate the approach at the best glide airspeed (+10/–5 knots);
(b) select a suitable landing area;
(c) plan the approach, considering aircraft altitude, wind conditions, terrain, obstructions and other factors;
(d) select a touchdown zone;
(e) vary airspeed, descent and flight profile, as necessary, to safely achieve a successful approach to the selected touchdown zone;
(f) attempt to determine the cause of the simulated malfunction;
(g) simulate an emergency radio call;
(h) prepare the passenger for landing;
(i) complete appropriate checks; and
(j) prepare for landing, or overshoot, as specified by the examiner.

Note 1: The candidate will be expected to demonstrate good airmanship by clearing the engine at appropriate intervals during the descent. In very cold conditions, the practice of leaving some power on and achieving a normal descent angle and airspeed by using flaps is acceptable.

Note 2: A change of field is acceptable from an altitude or point in the approach where a landing could still have been made on the original landing site.
EX. 23 PILOT NAVIGATION

Aim
To determine that the candidate can use an aeronautical chart to effectively navigate from one place to another.

Description
When requested by the examiner, the candidate will demonstrate ability to navigate from a known position to a position assigned by the examiner. This is an assessment of ability to navigate using pilotage (map reading) and geographic features such as roads, railways, and rivers, if they are available. Rulers, notched pencils, protractors, and computers will not be used for this procedure.

The exercise will be continued at least to the stage where the aeroplane is established on the proposed track or is following a suitable geographic feature in a manner that will ensure arrival at the destination is predictable.

Performance Criteria
Assessment will be based on the candidate’s ability to:

(a) identify landmarks by relating surface features to chart symbols
(b) establish the aeroplane on a track or follow a geographic feature that will lead to the assigned destination;
(c) provide an estimated time of arrival that is sufficiently accurate to ensure that the exercise can be conducted as planned; and
(d) maintain the selected altitude (±200 feet).
EX. 29  EMERGENCY PROCEDURES/MALFUNCTIONS

Aim
To determine that the candidate can react promptly and correctly to emergencies and system or equipment malfunctions.

Description
The examiner will assess the candidate's knowledge of emergency procedures or abnormal conditions. Assessment may be carried out during any portion of the flight test.

Performance Criteria
Assessment will be based on the candidate’s ability to analyze the situation, take appropriate action and follow the appropriate memory items, emergency checklists or procedures, for any one (1) of the following simulated emergencies/malfunctions, as specified by the examiner:

(a)  partial power loss;
(b)  rough engine operation or overheating;
(c)  loss of oil pressure;
(d)  fuel starvation;
(e)  electrical fire;
(f)  vacuum system failure;
(g)  pitot or static blockage;
(h)  cabin fire;
(i)  icing;
(j)  electrical failures;
(k)  flap failure;
(l)  brake failure or seizure;
(m)  door opening in flight;
(n)  spin recovery
(o)  emergency descent;
(p)  any other emergency unique to the aeroplane.
# RECOMMENDATION FOR FLIGHT TEST

## RECREATIONAL PILOT PERMIT - AEROPLANE

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<th>Name of Candidate</th>
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I, the undersigned instructor:

(a) certify that the above named candidate meets the minimum experience requirements of section 421.14 of the *Personnel Licensing Standards*.

(b) certify having personally conducted a pre-test evaluation of all required flight test items with the candidate.

(c) consider the candidate to have reached a sufficient level of competency to complete the flight test required for the issuance of the Recreational Pilot Permit - Aeroplane and hereby recommend the candidate for the flight test; and further

(d) certify that I am qualified through the privileges of my pilot licence to make this recommendation.

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RECOMMENDATION FOR PARTIAL FLIGHT TEST
RECREATIONAL PILOT PERMIT - AEROPLANE

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I have conducted a review of the flight test item(s) _______________________________ and have completed additional training with this candidate.

I consider the candidate to have reached a sufficient level of competency to successfully complete the flight test for the issuance of the Recreational Pilot Permit - Aeroplane and hereby recommend the candidate for the partial flight test.

I further certify that I am qualified through the privileges of my pilot licence to make this recommendation.

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