



TRINIDAD AND TOBAGO CIVIL AVIATION AUTHORITY

SKILLS TEST FOR GRANT/REVALIDATION OF INSTRUMENT RATING (HELICOPTER)

EXAMINEE: LICENCE NO.:

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DATE: A/C REG.: A/C TYPE:

WEATHER CONDITIONS..... **TURBULENCE:-** CALM/MODERATE/HEAVY

Route Flown.....

(Indicate: Satisfactory or Unsatisfactory in box after item)

PARAGRAPH 1 DEPARTURE

NOTE:
At the beginning of the test, or at the beginning of any Section of the test when Sections are taken separately, applicants will be assessed on their ability to perform the following actions leading up to the take-off.

Use of checklist, airmanship (control of helicopter by external visual reference, anti/de-icing procedures, etc.) apply in all Paragraphs.

			Remarks
a.	Use of flight manual (or equivalent) especially aircraft performance calculation; mass and balance		
b.	Use of Air Traffic Services document, weather document		
c.	Preparation of ATC flight plan, IFR flight plan/log		
d.	Pre-flight inspection		
e.	Weather minima		
f.	Taxiing/Air taxi in compliance with ATC or instructions of instructor		
g.	Pre-take-off briefing, procedures and checks		
h.	Transition to instrument flight		
i.	Instrument departure procedures		
<i>Assessment This Section</i>			<input type="checkbox"/> Pass <input type="checkbox"/> Fail

PARAGRAPH 2 GENERAL HANDLING

			Remarks
a.	Control of the helicopter by reference solely to instruments, including:		
b.	Climbing and descending turns with sustained rate one turn		
c.	Recoveries from unusual attitudes, including sustained 30 ^o bank turns and steep descending turns		
<i>Assessment This Section</i>			<input type="checkbox"/> Pass <input type="checkbox"/> Fail



TRINIDAD AND TOBAGO CIVIL AVIATION AUTHORITY

PARAGRAPH 3 EN-ROUTE IFR PROCEDURES

			Remarks
a.	Tracking including interception, e.g. NDB, VOR, RNAV		
b.	Use of radio aids		
c.	Level flight control of heading, attitude and airspeed, power setting		
d.	Altimeter settings		
e.	Timing and revising of ETAs		
f.	Monitoring of flight progress, flight log, fuel usage, systems, management		
g.	Ice protection procedures, simulated if necessary and applicable		
h.	ATC liaison and compliance, R/T procedures		
i.	Holding procedures		
<i>Assessment This Section</i>			<input type="checkbox"/> Pass <input type="checkbox"/> Fail

PARAGRAPH 4 PRECISION APPROACH

			Remarks
a.	Setting and checking of navigational aids, identification of facilities		
b.	Arrival procedures, altimeter checks		
c.	Approach and landing briefing, including descent/approach/landing checks		
d.*	Holding procedure		
e.	Compliance with published approach procedure		
f.	Approach timing		
g.	Altitude, speed, heading control, (stabilised approach)		
h*.	Go-around action		
i.	Missed approach procedure / landing		
j.	ATC Liaison – compliance, R/T procedures		
* to be performed in Section 4 or Section 5			
<i>Assessment This Section</i>			<input type="checkbox"/> Pass <input type="checkbox"/> Fail



TRINIDAD AND TOBAGO CIVIL AVIATION AUTHORITY

PARAGRAPH 5 NON-PRECISION APPROACH

			Remarks
a.	Setting and checking of navigational aids, identification of facilities		
b.	Arrival procedures, altimeter checks		
c.	Approach and landing briefing, including descent/approach/landing checks		
d.*	Holding procedure		
e.	Compliance with published approach procedure		
f.	Approach timing		
g.	Altitude, speed, heading control (stabilized approach)		
h.*	Go around action		
i.	Missed approach procedure / landing		
j.	ATC liaison – compliance, R/T procedures		
* to be performed in Section 4 or Section 5			
<i>Assessment This Section</i> <input type="checkbox"/> Pass <input type="checkbox"/> Fail			

PARAGRAPH 6 ABNORMAL AND EMERGENCY PROCEDURES

This section may be combined with sections 1 through 5. the test shall have regard to control of the helicopter, identification of the failed engine, immediate actions (touch drills) follow-up actions and checks and flying accuracy in the following situations.

			Remarks
a.	Engine failure after take-off and on/during approach * (at a safe altitude unless carried out in a flight simulator or FNPT 11) <i>*Multi-engine helicopter only</i>		
b.	Failure of stability augmentation devices/hydraulic system (if applicable)		
c.	Limited Panel		
d.	Autorotation and recovery to a pre-set altitude		
e.	Precision approach manually without flight director* Precision approach manually with flight director* <i>*Only one item to be tested.</i>		
<i>Assessment This Section</i> <input type="checkbox"/> Pass <input type="checkbox"/> Fail			



TRINIDAD AND TOBAGO CIVIL AVIATION AUTHORITY

RESULT: (PASS) (FAIL)

GENERAL REMARKS AND RECOMMENDATIONS:
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I, the undersigned, duly appointed by the Director General of Civil Aviation to conduct the above test hereby certify thathas successfully/unsuccessfully completed the required checks.

Candidates Log Book signed

Signed:
Examiner

Date:
yy/mm/dd

GUIDELINES FOR THE SKILLS TEST

- (a) An applicant for a skill test for the Instrument Rating shall have satisfactorily completed all of the required training including instruction on the same type and class of helicopter to be used in the test. The helicopter used for the skill test shall meet the requirements for training helicopter.
- (b) The administrative arrangements for confirming the suitability of the applicant to take the test, including disclosure of the training record of the applicant, to the Examiner, shall be determined by the Authority;
- (c) An applicant shall pass paragraphs 1 through 6 of the skill test. Failure of more than five items will require the applicant to take the entire test again. Where the applicant fails in five or less items, he shall take the failed items again;
- (d) Should the applicant choose to terminate a skill test for reasons considered inadequate by the Flight Examiner, the applicant shall retake the entire skill test. If the test is terminated for reasons considered adequate by the Flight Examiner, only those sections not completed shall be tested in a further flight.
- (e) Failure in a paragraph of the re-test, including those paragraphs that have been passed on a previous attempt, will require the applicant to take the entire re-test again. All paragraphs of the skill test shall be completed within sixty days;
- (f) Further training may be required following any failed skill test. Failure to achieve a pass in all paragraphs of the test in two attempts shall require further training as determined by the Authority. There is no limit to the number of skill tests that may be attempted.
- (g) The Authority will provide the Flight Examiner with adequate safety advice to ensure that the test is conducted safely should the applicant choose to terminate a skill test for reasons considered inadequate by the Flight Examiner, the applicant shall retake the entire skill test. Where the skill test is terminated for reasons considered adequate by the Flight Examiner, only those paragraphs not completed shall be tested in a further flight;
- (h) At the discretion of the Flight Examiner, any manoeuvre or procedure of the test may be repeated once by the applicant. The Flight Examiner may stop the test at any stage if it is considered that the demonstration of flying skill by the applicant requires a complete re-test;
- (i) An applicant shall be required to fly the helicopter from a position where the pilot in command functions can be performed and to carry out the test as if there is no other crew member. Responsibility for the flight shall be allocated in accordance with the Act or Regulations made thereunder;
- (j) The route to be flown shall be chosen by the Flight Examiner and the destination shall be a controlled aerodrome. The route may end at the aerodrome of departure or at another aerodrome. The applicant shall be responsible for flight planning and shall ensure that all equipment and documentation for the execution of the flight are on board.



TRINIDAD AND TOBAGO CIVIL AVIATION AUTHORITY

(k) An applicant shall indicate to the Flight Examiner the checks and duties carried out, including the identification of radio facilities. Checks shall be completed in accordance with the authorized check list for the helicopter on which the test is being taken. Power settings and speeds should be agreed with the Flight examiner before the start of the skill test and should normally conform to those given in the operations of flight manual of the helicopter concerned;

(l) The Flight examiner shall take no part in the operation of the helicopter except where intervention is necessary in the interests of safety or to avoid unacceptable delay to other traffic;

Flight Test Tolerances

(m) The applicant shall demonstrate the ability to:

- (a) operate the aircraft within its limitations;
- (b) complete all manoeuvres with smoothness and accuracy;
- (c) exercise good judgment and airmanship;
- (d) apply aeronautical knowledge; and
- (e) maintain control of the aircraft at all times in such a manner that the successful outcome of a procedure or manoeuvre is never seriously in doubt.

(n) The following limits are for general guidance.

Height

Generally	± 100 feet
Starting a go-around at decision height	+ 50 feet/-0 feet
Minimum descent height/altitude	+ 50 feet/-0 feet

Tracking

On radio aids	± 5°
Precision approach	half scale deflection, azimuth and glide path

Heading

All engines operating	± 5°
With simulated engine failure	+10°

Speed

All engines operating	± 5 knots
With simulated engine failure	+10 knots/ -5 knots

Ground Drift (Helicopters)

T.O. hover I.G.E	+/- 3 feet
Landing	+/- 2 feet (about 0 feet rearward or lateral flight)

The Flight Examiner shall make allowance for turbulent conditions and the handling qualities and performance of the helicopter used.