

Safety Regulation Group Licensing & Training Standards



Standards Document 19(H), Version 02

EASA Aircrew Regulation, Annex I - Part-FCL, Subpart B and C

**Notes for the Guidance of Applicants taking the PPL and LAPL Skill
Test (Helicopters)**

Please note that this document is for guidance purposes only. The latest version of this document can be viewed on the CAA website

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Foreword

This document sets out the guidance for applicants taking the **Skill Test** for the grant of a **Private Pilot's Licence (PPL)** or a **Light Aircraft Pilot Licence (LAPL)** Helicopter. The information will help applicants prepare for this flight test, but it must be remembered that aspects mentioned here are of a general nature only and do not give precise details of each exercise or manoeuvre.

Nothing in this document is intended to conflict with the **EASA Aircrew Regulation (Regulation (EU) 1178/2011 as amended by Regulation (EU) 290/2012)** or UK statute law where applicable. Whilst every effort is made to ensure that all information is correct at the time of publication, the CAA reserves the right to amend this document as required to accommodate changes to the primary authority documents, to correct errors and omissions or to reflect changes in national policy and best practice.

The **Civil Aviation Authority** is the competent authority of the UK for the issue of pilot licences, ratings and certificates in accordance with **EASA Annex I Part-FCL (the Aircrew Regulation)** and for the oversight of their implementation and use. In fulfilling this role, the CAA is required to provide oversight documentation, including standards documents, guidance material and acceptable means of compliance that may be used by relevant personnel and organisations to allow them to perform their tasks, discharge their responsibilities and establish compliance with the Basic Regulation.

This document and other **Civil Aviation Authority (CAA) Standards Documents** are available on the CAA web site at: www.caa.co.uk/standardsdocuments

These may be downloaded without charge. The **CAA Scheme of Charges**, application and report forms are also available from the website at www.caa.co.uk.

If, after reading this document, there are any queries or comments, please contact **CAA Flight Crew Standards (FCS)** in Licensing & Training Standards (L&TS), **CAA Safety Regulation Group**.

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Glossary of Abbreviations and Terms

AI or ADI	Attitude Indicator or Attitude Direction Indicator
AIC	Aeronautical Information Circular
AIP	Aeronautical Information Publication
AMC	Acceptable Means of Compliance
ANO	Air Navigation Order
AoC	Assessment of Competence
ATC	Air Traffic Control
ATO	Approved Training Organisation
CPL	Commercial Pilot Licence
CRM	Crew Resource Management
CRMI	Crew Resource Management Instructor
EASA	European Aviation Safety Agency
FCS	CAA Flight Crew Standards
FEH	Flight Examiners Handbook
FE (CPL)	Flight Examiner Commercial Pilot Licence (Helicopters)
FE (PPL)	Flight Examiner Private Pilot Licence (Helicopters)
FI	Flight Instructor
FNPT or FNPT II	Flight Navigation Procedures Trainer
FS or FFS	Flight Simulator or Full Flight Simulator
FSTD	Flight Simulation Training Device
GE	Ground Examiner
GPS	Global Positioning System
GM	Guidance Material
GNSS	Global Navigation Satellite System
L&TS	CAA Licensing & Training Standards
ME	Multi-Engine
Part FCL	EASA Aircrew Regulation - Annex 1 – Part-FCL
Proficiency Check	Demonstration of skill for the revalidation or renewal of a licence or rating, including oral examinations as may be required.
RF	Registered Facility
RT or RTF	Radiotelephony
SE	Single-Engine
SEP	Single-Engine Piston
SET	Single-Engine Turbine
Skill Test	Demonstration of skill for the issue of a licence or rating
SP or SPH	Single-Pilot or Single-Pilot Helicopter
TRE	Type Rating Examiner
VFR	Visual Flight Rules
VMC	Visual Meteorological Conditions

Editorial Convention

Throughout these notes the following editorial practices and definitions shall apply:

- "Shall" and "Must" are used to indicate a mandatory requirement.
- "Expect" and "Should" are used to indicate strong obligation.
- "May" is used to indicate discretion.
- "Examiner" is used to indicate a person who is authorised by the CAA to conduct the appropriate skill test or aeroplane inspection.
- "Applicant" is used to indicate a person who is seeking the issue or renewal of a pilot's licence or rating.
- A Skill Test is a demonstration of skill for the initial licence issue, licence renewal, rating issue or rating renewal. Such tests include oral examination and flight test as appropriate.
- "He/She". The pronoun 'he' is used throughout for ease of reading.
- "Test" is used in this document to describe licensing skill tests and proficiency checks

PART 1 GENERAL INFORMATION

- 1.1 Successful completion of the skill test will result in the appropriate Type Rating being added to the applicant's licence.
- 1.2 The Type Rating issued from the skill test will be valid for the period stated in EASA Part-FCL.

PART 2 FLIGHT TEST PREPARATION AND PROVISION OF HELICOPTERS

2.1 FLIGHT TEST PREPARATION

- 2.1.1 **Requirements**
The skill test shall be taken within 6 months of the completion of training and all sections of the test must be completed within 6 months of the first attempt.
- 2.1.2 **Ground examinations and training**
An applicant for a skill test shall have successfully completed all theoretical knowledge examinations associated with the issue of a PPL(H) or LAPL(H).
- 2.1.3 **Flight training** skill test applicants shall have successfully completed the training stated in EASA Part-FCL Annex 1, Sub part C. (LAPL Sub part B)
- 2.1.4 **Certificate of Course Completion**
EASA states that the administrative arrangements for confirming the applicant's suitability to take the test, including disclosure of the applicant's training record to the Examiner, will be determined by the Authority. In the UK the applicant's suitability will be confirmed by completion of the course completion certificate on the form for the application for the issue of the licence, as well as training records to comply with FCL.1030.
- 2.1.5 **Previous tests**
Applicants who have previously attempted the skill test must produce to the Examiner the previous test result form SRG 1172 that shows the reasons for failure, any re-training requirement and evidence of that training.
- 2.1.6 **Medicals**
Applicants must be in possession of a valid UK issued EASA Class 1 or Class 2 medical certificate if applying for a PPL, or LAPL Medical Certificate if applying for LAPL. The medical certificate shall be shown to the examiner. If the certificate is out of date the examiner may still conduct the test, but the applicant should be aware that, regardless of the outcome, he will not be permitted to use his licence or rating until the certificate is revalidated.
- 2.1.7 **Flight Radio Telephony Operator's (FRTTO) Licence**
An applicant must have passed the RT Ground Exam prior to attempting the Skill Test.

2.2 PROVISION OF HELICOPTERS

- 2.2.1 The applicant must provide an appropriate Helicopter for the skill test. The helicopter, its equipment and documentation, must be approved for the purpose. The process for approval will be carried out by the Examiner. The helicopter used for the test shall meet the requirements for training helicopters detailed in EASA Part-OR.
- 2.2.2 The helicopter used for the skill test must be equipped and maintained to a recognised and accepted maintenance standard. It must have a certificate of airworthiness issued or accepted by an EASA Member State to enable the applicant to obtain a type rating for licence issue.
- 2.2.3 The helicopter must be fitted with duplicate primary flying controls for use by the applicant and Examiner. Swing-over flying controls are not acceptable.
- 2.2.4 Flight, engine and associated ancillary instruments as required by ANO schedule 4 and 5. Instruments must be readily visible to both the Examiner and the applicant.
- 2.2.5 Wheel brakes, undercarriage controls, engine controls, fuel controls and cabin fire extinguishers must be either duplicated or positioned so that they are accessible to both the Examiner and applicant.
- 2.2.6 The helicopter must be suitable for demonstrating all aspects of the training syllabus.
- 2.2.7 Radio navigation equipment should be installed including at least one VOR or ADF receiver (PPL Only). GNSS equipment where fitted, must have the latest software edition if required for use during the skill test.
- 2.2.8 Helicopters must be equipped with a VHF Transceiver and two-way inter-communication must be fitted for use by the Examiner and applicant. In flight communication should be carried out using headsets.
- 2.2.9 A stop-watch or other suitable timing device should be provided for use by the applicant. This may be part of the helicopter equipment or provided separately.
- 2.2.10 A means of screening from external reference must be provided to simulate flight by sole reference to instruments. Head worn visors or goggles may be used for this purpose (PPL Only).

PART 3 CONDUCT OF THE TEST

3.1 PREVIEW OF EVENTS

- 3.1.1 This first section will preview those items that the Examiner considers as he constructs the profile. Section 3.2 gives details of the contents of the Initial Briefing; Sections 3.3 and 3.4 describe the Main and Pre Flight Briefing; Sections 3.5 and 3.6 the Planning and Weather considerations that are required. Sections 3.7 details the Flight and 3.8 the Post Flight Debrief.
- 3.1.2 The skill test will be conducted by a Flight Examiner or Inspector authorised by the CAA. The test schedule and standards required are set by EASA. The examiner will conduct each test to meet the required schedule and achieve a meaningful, fair and valid assessment. He will give the applicant clear and unhurried instructions and will check that the applicant has understood what he has been asked to do.
- 3.1.3 Applicants will be assessed on all aspects of the helicopter operation. Sound basic handling skills are essential as well as airmanship, navigation, instrument flying, correct R/T phraseology, cockpit and overall flight management. The Examiner may elect to evaluate certain aspects by oral questioning.
- 3.1.4 The skill test is divided into five main sections:
- Section 1 Pre/Post Flight Checks and Procedures
 - Section 2 Hover Manoeuvres, Advanced Handling and Confined Areas
 - Section 3 Navigation - En-route procedures
 - Section 4 Flight Procedures and Manoeuvres
 - Section 5 Abnormal and emergency procedures
- 3.1.5 The skill test is intended to be flown as a complete flight including navigation and general handling manoeuvres. However, as agreed between the applicant and the Examiner, the En Route Procedures, Section 3, may be flown as a separate flight Note, the test should not be started unless both flights can be completed in the same day. (If Sect 3 is flown separately Section 1 will be assessed on both flights).
- 3.1.6 If the skill test is completed in two parts, both parts shall be conducted by the same Examiner. The overall result of the attempt shall not be assessed or recorded until all sections have been completed. Each part of the attempt shall be recorded on separate test report forms (SRG 1172) and clearly marked with the attempt/series number.
- 3.1.7 The sequence in which the Sections are conducted may vary depending on the circumstances. Briefing and planning will be completed in approximately 2 hours, the pilot's pre-flight inspection in 30 minutes. The Navigation - En Route section, including Instrument Flying and Radio Tracking, normally takes about 1 hour and the Hover Manoeuvres, Advanced Handling and Confined Areas combined about 1 hour. Section 5 may be combined, at the discretion of the Examiner, with Sections 1 through 4, or, flown as a separate section. The complete skill test may last about 4 hours and 30 minutes, and will be followed by a post flight debriefing by the Examiner.
- 3.1.8 The flight test will be conducted in a helicopter certificated for single pilot operation.
- 3.1.9 The skill test is very demanding. It is appreciated that even the most competent pilots can make mistakes, but this does not necessarily mean that a failure should result.
- 3.1.10 The following notes reflect the style and sequence of the briefing that the applicant may expect to hear. However, the examiner may make variations in the delivery of the briefing and may have to modify the sequence in which items are briefed and flown.

3.2 INITIAL BRIEFING

- 3.2.1 The purpose of the initial briefing is to check that the applicant has completed the necessary training and experience requirements, to establish the aim of the flight test and check that he is aware of those planning resources that he will require. This briefing will normally take about 10 minutes.
- 3.2.2 At the pre-arranged time the Flight Examiner will meet the applicant. A check will be made to ensure that the applicant has the necessary equipment and documentation including:
- Written recommendation for test and student record folder
 - Personal flying logbook (including evidence of any retraining if this is not the first attempt)
 - A UK issued EASA medical certificate (LAPL Medical Certificate)
 - A form of photo identity; e.g. a valid passport or ID card
 - A valid Certificate of Course Completion or previous attempt form SRG 1172
 - Evidence of successful completion of all theoretical knowledge examinations
 - Appropriate helicopter technical and insurance documents
 - Two headsets - Examiners may carry their own headset but a spare unit should be available for the flight
 - Two copies of the authorised helicopter check list
 - Instrument flying screens, visors or goggles (PPL only)
 - Current publications for the routing and airfields
 - Planning material including a blank flight log, map and navigation equipment
 - Any relevant CAA correspondence such as a letter of assessment or retraining requirements
- 3.2.3 The examiner will outline the content of the skill test.
- 3.2.4 The applicant will be given the Examiner's weight for his Performance and Mass & Balance calculations.

3.3 MAIN BRIEFING

- 3.3.1 The examiner will give a comprehensive briefing covering all aspects of the flight. During the briefing the applicant should ask questions at any time if he is unclear about any aspect. This briefing would normally take 30 minutes. The Examiner may not brief in the sequence below, but will cover all the relevant items in his briefing.
- 3.3.2 The briefing will include:
- (a) **The purpose of the flight**
The purpose of the flight is for the applicant to demonstrate his ability to plan and conduct a private, passenger carrying flight whilst acting as pilot-in-command and operating as a single pilot. The briefed profile shall be conducted in VMC and the flight will include simulated helicopter emergencies and general flying manoeuvres. Passenger safety, comfort and reassurance must be considered throughout the flight. The applicant is asked to assume that the Examiner is a passenger, and as such can only offer basic assistance. The Examiner will act as the Safety Pilot when flight in simulated IMC takes place. (PPL only)
 - (b) **The applicant's responsibilities**
The Examiner will explain that all the duties and decisions necessary for the safe and practical conduct of the flight, in accordance with current legislation, will be the responsibility of the applicant. The applicant should liaise with ATC but if ATC instructions conflict with the briefing these will take priority; the examiner will only intervene if he decides to do so for reasons of safety or clarification.
 - (c) **Checklists**
Throughout the flight the applicant will be expected to use the authorised helicopter checklist. The applicant is to assume that the test is the first flight of the day and carry out a pilot pre-flight inspection. Airborne checks may be completed from memory, or from alternative notes, but must be in accordance with the checklist and with each check item spoken aloud.
 - (d) **Planning check**
The Examiner will assess the applicant's ability to check the appropriate helicopter documents before flight. He will expect to be briefed by the applicant as to the weather suitability. The Examiner will check the flight navigation log and may take a photocopy. He may question the applicant on any aspect of the planning, for example: choice of operating altitudes, safety altitudes, fuel planning, NOTAMS. The applicant's calculations of the helicopter's Mass & Balance and Performance will be assessed.
 - (e) **The profile**
The Examiner will go through the flight, item by item explaining to the applicant what is required of him. The Examiner will brief on the navigation route and any other airfields to be used. (to avoid repetition of the briefed items, these are expanded at para 3.7 - The Flight). The Examiner will not instruct the applicant on how to fly or manage the flight; he will advise what he wants to see the applicant do. Conditions, such as when radio aids may be used, will be covered. Procedures for the use of the screens, goggles or visors will be advised, including a reminder that, when simulating IMC, the Examiner will be responsible for collision avoidance (PPL Only). During the briefing the Examiner will regularly check if the applicant has any questions and finally he will ask the applicant if he is quite clear what is required of him during the test.
 - (f) **Helicopter control**
The helicopter must be operated in accordance with the Aircraft Flight Manual (FM) or Pilots Operating Handbook (POH), as appropriate, and the operating procedures should follow those given in the Training Organisation's Flying Order Book or Operations Manual. The Examiner will require confirmation of the various speeds and configurations to be used at each phase of flight. Speeds may be adjusted to meet different conditions or circumstances and the Examiner must be advised of the new target speed at that time. The Examiner will also explain that if the applicant wishes to change any of the speeds in flight, he must inform the Examiner and nominate a new speed.
 - (g) **Emergencies and abnormal conditions**
The Examiner will discuss the actions necessary should any real emergency or abnormal condition occur during the flight. In general, the applicant is to control and handle any helicopter emergency but the Examiner, as helicopter captain, may elect to take control at any stage.
 - (h) **Simulated Emergencies**
The Examiner will brief on how he will initiate simulated emergencies.
 - (i) **Oral questioning**
The examiner may ask practical questions relating to the flight on subjects such as VFR procedures, helicopter performance and technical aspects, emergency handling and the helicopter documents.

3.3.3 When the applicant is clear about the format for the flight he will be given time to complete the necessary planning and pre-flight preparation, normally 1 hour, depending upon the circumstances. The examiner will specify the time to meet for the pre flight briefing.

3.4.1 PRE FLIGHT BRIEFING

3.4.2 When the applicant has completed the flight planning, he will present a flight log (see para 3.5.4) and give the examiner a pre-flight briefing.

3.4.2 The pre flight briefing must contain at least the following items (the MATED brief is only included as a suggested aide memoir):

Met	Met conditions as appropriate for the area and time of the flight
Aircraft	AUM, C of G, fuel load, tech log details
ATC	Airfield details, NOTAMS, Royal Flights, RT services, Nav aids
Exercise	How the Navex is to be conducted (produce flight log)
Duties	Pax Brief (normally conducted at the aircraft)

3.4.3 The Examiner may stop the test at any stage if he considers that the applicant's demonstration of skill and/or knowledge requires a complete retest.

3.5 PLANNING

3.5.1 Planning facilities will be available either at the Training Organisation, or aerodrome flight planning facility. The examiner will check that the applicant is aware of where resources are. A quiet briefing room should be used so that the planning can be completed without interruption or distraction.

3.5.2 Planning shall be completed without assistance from other students or instructors.

3.5.3 Current ATC and Met information should be obtained from the aerodrome flight planning facility. Any booking requirements must be made in adequate time for the flight.

3.5.4 A flight log must be prepared and the Examiner may require a copy. The log must include such items as:

- Route (including flight to any planned alternate aerodrome)
- Communication and navaid frequencies (note that where this information is clearly displayed on planning documents, such as the charts to be used, it is not necessary to copy that information to the log)
- Planned levels and altitudes
- Timings, ETAs
- MSA, safety altitude or minimum levels/altitudes
- Fuel (showing contingency fuel)
- Space for logging ATIS and clearances

3.5.5 The route may require flight through airspace other than Class G airspace and consideration should be given to any special precautions during planning.

3.5.6 Pre-prepared flight logs, specially drawn routes, or pre-prepared helicopter weight and C of G calculation, or computerised programs shall not be used. Only routinely available planning information and documents are permitted.

3.6 WEATHER MINIMA

3.6.1 The pre-flight preparation of the PPL SKILL TEST requires the applicant to assess the weather conditions and make his decision whether to proceed with the flight. In arriving at his decision an applicant must take into account the requirements of all the sections of the test that he is taking. The flight must be conducted maintaining VMC throughout. For those items of the test which are required to be flown by sole reference to instruments, IMC will be simulated by using appropriate cockpit screening, goggles or a visor. (PPL only).

3.6.2 Applicants shall comply with the minimum weather conditions specified in their Training Organisation's Flying Order Book or Operations Manual, or other more stringent limitations if applicable (e.g. State Minima). However, when extreme conditions of high wind speed, severe turbulence, icing or thunderstorms exist, the examiner may determine that this would make the flight difficult to assess and may override the applicant's willingness to proceed. The flight should not proceed if all planned sections cannot be achieved or the forecast would prevent a return to base or a suitable alternate aerodrome.

3.6.3 Awareness of engine icing conditions must be displayed by regularly checking the outside air temperature and carburettor heat where appropriate. Training Organisations must ensure that an operating procedure is published for using helicopter anti icing equipment, particularly with reference to carburettor heat. The helicopter must not be flown deliberately into icing conditions if this is contrary to the helicopter flight manual.

3.7 THE FLIGHT

3.7.1 The following is a suggested sequence of the sections for the flight test. However this sequence may be varied according to individual conditions and circumstances, or may be flown as two separate flights. The applicant will be assessed through all sections on his general flight management, airmanship, observance of aircraft limitations, accuracy and flying skills.

3.7.2 **Pre/Post Flight Checks and Procedures (Section 1)**

The Examiner will assess the applicant's ability to check the appropriate helicopter documents before flight. He will expect to be briefed by the applicant as to the weather suitability. The Examiner will check the flight navigation log and may take a photocopy. He may question the applicant on any aspect of the planning, for example: choice of operating altitudes, safety altitudes (heights), fuel planning, NOTAMS. The applicant's calculations of the helicopter's Mass & Balance and Performance will be assessed.

3.7.3 The applicant will be expected to carry out a safe and practical inspection of the helicopter prior to flight, and must be aware of the servicing operations that he is entitled to carry out on the helicopter. The applicant will be expected to proceed with the checks at a practical pace and with reference to the approved checklist. Where visual checks are made these should be described to the Examiner only if requested. Pre-flight checks of the radio and navigation equipment should include all the equipment which the applicant proposes to use during the flight. The Examiner must be briefed, as a passenger, on the position and method of the use of emergency exits, safety belts, safety harnesses, life jackets, and all other devices/equipment required by the ANO and intended for use by passengers in the case of emergency. The applicant must instruct the Examiner in the emergency action which he should take.

3.7.4 The applicant will be expected to complete all pre/post take off checks, including radio calls and demonstrate compliance with ATC procedures and instructions.

3.7.5 On completion of the flight the candidate will be expected to carry out all the prescribed parking, shutdown and post flight procedures in accordance with the FM/POH checklist, local procedures and ATC instructions.

3.7.6 **The En-Route procedures (Section 3)**

This section is usually flown first to ensure an efficient flow to the flight. During this section of the flight the helicopter is assumed to be on a private, passenger carrying flight under Visual Flight Rules (VFR). The navigation comprises of pre-planned legs, a planned pure navigation leg of about 20 nm, a short map reading leg of about 5 km, a planned track crawl of about 20nm, a planned radio navigation tracking leg of about 20 nm (PPL only) and then an unplanned 'in flight' diversion.

Leg 1: The first leg should be flown using the 1:250,000 chart in accordance with the candidates navigation calculations, aiming to maintain heading, height and speed by use of mental dead reckoning. When the helicopter has achieved cruising altitude and is on heading for the turning point, the applicant should confirm to the Examiner the heading, altitude, and ETA, thereafter advising any changes. For instance, "2 minutes late at my halfway point and 5 miles left of track - the revised heading is....and the new ETA is now.

Leg 2: When the first turning point has been identified to the examiners satisfaction the candidate will change to the 1:50,000 (OS) map to map read approximately 5 km to the next turning point (which will normally be a stately home, manor house or similar feature) using the features on the ground to assist.

Leg 3: This leg is to be flown as a track crawl with the candidate returning to using the 1:250,000 chart and maintaining the track by map reading. The track should be 'direct' but sensible use should be made of clearly identifiable features on the track ahead. If the candidate wishes to deviate from the planned track/height he should state the reason and then return to the track/height as soon as possible.

Leg 4: (PPL only) The fourth leg will be a tracking leg using the VOR (or ADF) to maintain a radial. The appropriate navaid and aircraft instrument checks should be carried out before the facility is used. Once established on the radial the candidate should correct for wind.

Diversion: The purpose of this leg is to see the candidate carry out 'in flight' planning to an alternate location. The examiner will mark on the 1:250,000 map the diversion location and the aircraft's present location. The candidate will assess the new heading and ETA and then make any adjustments en route using any of the techniques used in the previous legs. During this leg any aids on the aircraft (including GPS) may be used.

Throughout the section the examiner will assess the candidate for:

- (a) Correct altimeter settings use
- (b) Awareness of minimum safe altitudes (MSA) and minimum levels
- (c) Compliance with regulations and liaison with ATC. A safe practical approach to ATC liaison is required
- (d) Accuracy of flying, altitude, speed, heading control
- (e) Cruise checks as appropriate, fuel management, carburettor icing etc.
- (f) Navigation/Map reading and assessment and correction of errors
- (g) Achievement of ETAs (+/- 2 minutes at turning points)
- (h) Engine handling and rotor control
- (i) Use of Airmanship, CRM and TEM

3.7.7 Flight Procedures (Section 4)

Throughout this section the Examiner will be responsible for navigation and ATC liaison, but the applicant will be responsible for look out. The following items will be assessed in this section.

Control of the helicopter by external visual reference including:

- (a) Straight and level flight at various airspeeds and configurations
- (b) Climbing and descending at various speeds at rate 1 onto specified headings
- (c) Turns using up to 30° bank through 180° & 360° left and right

3.7.8 Simulated IMC (Section 4) (PPL Only)

The Examiner will simulate inadvertent entry into cloud, by means of screens, visors or goggles and the applicant will be required to execute a rate one level turn on instruments through 180° to return the aircraft to VMC on a suitable heading. Applicants are expected to show consideration of the safety factors necessary for flight in IMC.

3.7.9 Hover Manoeuvres, Advanced Handling and Confined Areas (Section 2)

This section of the Skill Test reflects the type rating requirements for the helicopter on which the licence will be opened. The candidate will be asked to demonstrate the following:

- Take off and landing (lift off and touchdown)
- Taxi, hover taxi
- Stationary hover with head/cross/tail wind
- Stationary hover turns, 360° left and right (spot turns)
- Forward, sideways and backwards hover manoeuvring
- Simulated engine failure from the hover
- Quick stops into and downwind
- Sloping ground/unprepared sites landing and take offs
- Take offs (various profiles)
- Crosswind, downwind take off (if practicable)
- Take off at maximum take off mass (actual or simulated)
- Approaches (various profiles)
- Limited power take off and landing
- Autorotations (FE to select two items from – Basic, constant attitude, range, max range, low speed, and 360° turns)
- Autorotative landing
- Practise forced landing with power recovery
- Confined area, power checks, reconnaissance technique, approach and departure technique

3.7.10 Abnormal and Emergency Operations (Section 5)

The items of this section may be combined with Sections 1 through 4. The Examiner will simulate an abnormal or emergency situation; the applicant is expected to carry out the appropriate emergency actions. If drills involve the operation of fuel cocks, fuel shut off valves, mixture controls and any critical engine control, operations should be simulated by "touch actions" only. Emergencies requiring throttle manipulation will be briefed by the examiner. Emergency radio calls should be made aloud but not transmitted. Applicants should not assume that the practice emergency is complete until told by the Examiner.

3.8 POST FLIGHT ACTION

- 3.8.1 After the flight, the Examiner may complete any oral questioning to finalise the requirements of the Type Rating element of the test. The Examiner will then give the result and any reasons for a failure before conducting the debriefing and discussing the applicant's performance. The Examiner may ask questions in order to clarify certain items or actions.
- 3.8.2 Notification of the result will be given on the test result form SRG 1172. The form will show the result of each item and section. Should the result be a Partial Pass or Fail, the Examiner will explain the reasons for the failure and also give advice on any aspect of the test which the applicant may find useful during any subsequent attempt. The applicant will be required to sign the form as having understood the result and will be given a copy of the report form to retain.
- 3.8.3 Appendix 2 to this document gives a list of the test standards upon which the Examiner will base his assessment. The criteria are arranged to reflect the order of items listed on the Test Report form (SRG 1172).
- 3.8.4 Should an applicant have cause for concern about the conduct of the flight test then such comment should be made in writing to the Senior Flight Examiner (SFE). Details of the appeal procedure are given at Part 4.3.

PART 4 ASSESSMENT CRITERIA AND ADMINISTRATIVE PROCEDURES

4.1 ASSESSMENT CRITERIA

- 4.1.1 The flight will be assessed as private, passenger carrying flight. The safety and comfort, reassurance and briefing of passengers must be considered. The applicant shall demonstrate ability to:
- (a) Operate the helicopter within its limitations
 - (b) Complete all manoeuvres with smoothness and accuracy
 - (c) Exercise good judgement and airmanship
 - (d) Apply aeronautical knowledge of procedures and regulations as currently apply
 - (e) Maintain control of the helicopter at all times in a manner that the successful outcome of a procedure or manoeuvre is never seriously in doubt
- 4.1.2 Throughout the flight the helicopter should be flown as accurately as possible. The tolerances for operation are given as guidance to applicants but do not necessarily indicate that a 'failure' will result if any skill test limit is exceeded. Similarly, flight within the tolerances should not be achieved at the expense of smoothness and co-ordination.
- 4.1.3 The Examiner will make allowance for adverse weather conditions such as turbulence and the handling qualities and performance of the helicopter used. The skill test tolerances shown at Appendix 3 are for general guidance.

4.2 ADMINISTRATIVE PROCEDURES

- 4.2.1 Each time an applicant undertakes a skill test it is known as an 'Attempt'. 'Attempts' are grouped into 'Series'. There are two Attempts in each Series. There is no limit to the number of Series that may be taken.
- 4.2.2 A PASS will be awarded when all sections of the test are passed.
- 4.2.3 An applicant failing only one section at the first attempt in a Series shall have gained a PARTIAL PASS. The applicant shall then repeat that section. Failure in any section, including those that have been passed in a previous attempt, will cause the applicant to fail the entire test.
- 4.2.4 A FAIL will be awarded if more than one section is failed at the first attempt in a Series. A failure of any section of the second attempt will require the applicant to retake the entire test.
- 4.2.5 A FREE RETEST may be awarded if the applicant discontinues the flight and the reasons for doing so are agreed by the examiner. The free retest will require only those sections or items not previously flown to be completed; these items must be completed before the result of the flight can be determined. If the applicant terminates the flight test for reasons considered inadequate by the Examiner, he may forfeit the test fee and a further fee will be required before the next test.
- 4.2.6 The failure to pass all appropriate sections in two attempts in the first Series will conclude that Series. Before undertaking a further attempt in the next (second) Series the applicant will be required to:
- (a) Complete the retraining prescribed by the Flight Examiner at the completion of the Series and indicated on the Flight Test and report form SRG 1172.
 - (b) Present his personal flying logbook to the Flight Examiner, containing entries, certified by the Chief Flying Instructor (CFI) of the training organisation giving training, indicating that the prescribed training has been completed and that the applicant is fit to retake the skill test.
- 4.2.7 Should the applicant fail to pass the second or subsequent Series the Examiner will indicate the retraining required and may seek advice from the CAA SFE or his deputy. The second attempt in Series 2 shall, whenever possible, be conducted by a Staff Examiner or an examiner nominated by the SFE or his deputy. Retraining will be based upon an assessment of the reasons for failure of all previous attempts. The retraining hours must be expected to become more severe with continued failure at the test.
- 4.2.8 Applicants failing the first attempt in a Series may elect to forego the second attempt of the Series. Any Series which is forfeited will require the applicant to undergo mandatory retraining before the next Series of attempts. This retraining will include all elements of the test schedule and a minimum of 3 hours flying. Any applicant deciding upon this option shall inform the Training Organisation who must enter this decision into the student's records and sign the applicant's log book when the mandatory retraining is complete.

4.3 APPLICANT'S APPEAL PROCEDURE

- 4.3.1 The test result, SRG 1172 contains an extract from the Civil Aviation Authority Regulations 1991, which is reproduced below:

Regulation 6(5) of the Civil Aviation Regulations 1991 provides as follows:-

Any person who has failed any test or examination which he is required to pass before he is granted or may exercise the privileges of a personnel licence may within 14 days of being notified of his failure request that the Authority determine whether the test or examination was properly conducted.

In order to succeed with an appeal the applicant will have to satisfy the CAA that the examination or test was not properly conducted. Mere dissatisfaction with the result is not enough. Should the applicant have concern about the conduct of the skill test he should write to the SFE who will provide guidance on the Appeal Procedure

APPENDIX 1

FLIGHT TEST FORM SRG 1172

www.caa.co.uk/SRG1172

APPENDIX 2 SKILL TEST SCHEDULE AND STANDARD

Applicant's Notes

These notes are intended to give applicants a detailed account of the exercises that may, at the discretion of the examiner, be required in each section. The headings used relate directly to those shown on SRG 1172 a copy of which is shown at Appendix 1. In the interests of openness the standards to which they are assessed have also been included and these are shown in *italics*. It is emphasised that during the skill test applicants should concern themselves only with flying and operating the helicopter to the best of their ability. The application of the test standards are the responsibility of the Examiner.

Examiner's Notes

These guidance notes are published to establish the test standard required for a United Kingdom or EASA skill test. Any flight test can only be a brief 'snapshot' of a pilot's ability and therefore, to ensure overall pilot competence, Training Organisation's Flight Instructors are expected to use these standards when preparing applicants for the test. The Examiner must apply the standards evenly and fairly and without prejudice. The flight however, may be conducted in any sequence to achieve a complete and efficient test.

SECTION 1 – PRE/FLIGHT OR POST-FLIGHT CHECKS AND PROCEDURES

- (a) **Helicopter knowledge- i.e. tech log, fuel, mass and balance, performance flight planning, NOTAM and weather briefing.**
- *Check all documents required for a private, passenger carrying flight are correct*
 - *Obtain and assess all elements of the prevailing and forecast weather conditions*
 - *Collate all relevant ATC information, NOTAMS, Royal Flights, Nav aids, RT services*
 - *Complete an appropriate flight navigation log and chart*
 - *Determine that the helicopter is correctly fuelled for the flight*
 - *Complete a manual Mass & Balance schedule*
 - *Calculate helicopter Performance criteria and limitations applicable to the forecast weather conditions and make adjustments if required for actual conditions before take off*
- (b) **Pre-flight inspection or action, location of parts and purpose**
- *Check helicopter serviceability record and technical log*
 - *Using an approved checklist perform all elements of the helicopter pre-flight inspections, identifying components and functions as required by the examiner*
 - *Confirm that the helicopter is in a serviceable and safe condition for flight*
 - *Check and complete all necessary documentation*
 - *Complete an appropriate passenger emergency procedure briefing for the Examiner*
- (c) **Cockpit inspection and Starting procedures**
- *Complete all recommended cockpit inspection, engine/rotor starting and after starting procedures using an approved checklist*
- (d) **Communication and navigation equipment checks, selecting and setting frequencies**
- *Complete all recommended communication and navigation equipment checks*
 - *Select and set appropriate frequencies and transponder codes*
- (e) **Pre take-off procedure, RT procedure and ATC compliance**
- *Complete all recommended pre take off checks using an approved checklist*
 - *Obtain ATC clearance and follow ATC instructions*
 - *Complete all necessary after take off checks from memory*
 - *Comply with airport markings*
 - *Use charts or other published information as required*
 - *Execute a safe departure in accordance with clearance and with due regard for other air traffic*
 - *Use correct lookout techniques*
 - *Observe the Rules of the Air and ATC Regulations*
 - *Maintain directional control and drift corrections throughout*
 - *Follow any noise routing or departure procedures and ATC instructions*
 - *Complete all necessary climb checks*
 - *Demonstrate standard R/T procedures and phraseology*
 - *Demonstrate compliance with ATC instructions*
 - *Operate on the ground and in the air with particular regard for passenger safety and comfort*

(f) Parking, shutdown and post flight procedure

- *Return helicopter to parking area and complete engine shutdown*
- *Complete all after landing checks and drills*
- *Secure helicopter and complete documentation*

SECTION 2 – HOVER MANOEUVRES, ADVANCED HANDLING AND CONFINED AREAS**(a) Take-off and landing (lift off and touch down)**

- *Lift to and establish a stable hover maintaining ground position and heading*
- *Descend to land maintaining ground position and heading*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(b) Taxi, Hover Taxi

- *Demonstrate control of heading, height and groundspeed in hover taxi*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(c) Stationary hover with head, cross or tail wind

- *Maintain heading, height and ground position whilst in the stationary hover into wind, crosswind and downwind*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(d) Stationary hover turns, 360 degrees left and right (spot turns)

- *Carry out a spot (pedal) turn, maintaining the height, ground position and rate of turn throughout*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(e) Forward, sideways and backwards hover manoeuvring

- *Establish and maintain throughout each manoeuvre the nominated height, heading and speed*
- *Backwards manoeuvre to be preceded by lookout turn and increase of hover height*
- *Maintain directional control and balance throughout*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(f) Simulated engine failure from the hover

(Normally initiated by the examiner simulating an engine failure by closing the throttle with or without verbal warning)

- *Stop the aircraft tendency to drift and roll*
- *Stop the yaw tendency*
- *Cushion the touchdown*
- *When on the ground lower the collective lever*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(g) Quick stops into wind and downwind

- *Establish straight and level flight at the nominated speed, height and heading with cruise power set.*
- *Into Wind - Initiate manoeuvre with verbal warning – Quickstop, Quickstop, Go- lower the collective whilst simultaneously flaring the aircraft, maintaining height and heading until aircraft comes to complete stop before descending into low hover.*
- *Downwind - Initiate manoeuvre with verbal warning – Quickstop, Quickstop, Go – then either flare the aircraft and turn, or turn and flare the aircraft (or a combination of both) to bring the aircraft back into wind whilst maintaining height and not letting the speed fall below 30 kts until heading within 30 degrees of the wind. Once the aircraft has come to a complete stop descend into a low hover.*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*
- *Maintain directional control and balance throughout*

(h) Sloping ground or unprepared sites landing and take off

- *Identify landing area on slope and conduct recce to consider at least the following points:*
 - *Size* *Large enough to land the aircraft onto without striking the tail/blades*
 - *Shape* *Valley, bowl, direction of slope*
 - *Surrounds* *Blade/tail clearance, FOD, trees/shrubs, people*
 - *Slope* *Within limits of aircraft/pilot*
 - *Surface* *Firm, slippery, muddy, rocky*
- *Move onto slope area and conduct up slope/cross slope landing*
- *Maintain heading, ground position, and prevent movement of aircraft on slope*
- *When landed centralise the flying controls*
- *Prior to take off preposition controls*
- *Lift into hover maintaining heading and ground position*
- *Move away from slope ensuring tail is not turned towards the slope*
- *Be prepared to abort the landing at any stage*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(i) Take offs (various profiles)

- *Demonstrate take-off/transition from the hover as detailed by the Examiner*
- *Maintain directional control and balance throughout*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(j) Cross wind and downwind take-off (if practicable)

- *Demonstrate take-off cross/ down wind from the hover as detailed by the Examiner*
- *Maintain directional control and balance throughout*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(k) Take off at maximum take off mass (actual or simulated)

- *Demonstrate, using an appropriate technique a take off and transition from the hover ensuring the aircraft is flown within the limits set by the Examiner*
- *Maintain directional control/balance throughout*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(l) Approaches (various profiles)

- *Demonstrate an approach nominated by the Examiner*
- *Maintain directional control/ balance throughout*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(m) Limited Power take-off and landing

(Normally simulated by the examiner giving an simulated power limitation)

- *Carry out hover power check*
- *Select and demonstrate a transition from the hover using an appropriate technique for the simulated power limit set by the Examiner*
- *When instructed carry out an in flight power check, from which the Examiner will set a simulated power limit to be used for the approach and landing*
- *Select and demonstrate an appropriate technique for the approach and landing using only the simulated power limit set by the examiner*
- *Maintain directional control and balance throughout*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

(n) Auto-rotations

(The examiner will select two items , from basic, range, low speed, and 360 degree turns.

- *Select an area and height/altitude for the nominated autorotation*
- *Carry out HASEL (or other appropriate) checks*
- *Establish straight and level flight at the nominated speed, height and heading with cruise power set (into wind)*
- *Initiate manoeuvre with verbal warning – Practice Autorotation Go- and establish autorotation*
- *Fly the appropriate parameters for the nominated technique*
- *Close throttle to idle position (only if appropriate and briefed by the examiner)*
- *When instructed by the Examiner to 'Go Around' (or at an agreed height/altitude) open throttle and establish the aircraft in a climb using the nominated climbing speed*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*
- *Maintain directional control and balance throughout*
- *Control Nr throughout*

(o) Auto-rotative landing

(The Examiner will nominate the landing area, the entry speed, height and heading. The candidate will select entry point unless otherwise instructed)

- *Identify the nominated landing area, if appropriate conduct recce (Size, Shape, Surrounds, Slope Surface)*
- *Carry out HASEL (or other appropriate) checks*
- *Establish final approach (into wind), straight and level flight at the nominated speed, height and heading with cruise power set*
- *Initiate manoeuvre with verbal warning – Practice Engine Failure Go- and establish auto-rotation using the appropriate parameters for the nominated technique*
- *Close throttle to idle position (only if appropriate and briefed by the examiner), if necessary the Examiner will assist*
- *Ensure no aircraft skid or drift by 300ft agl*
- *Apply appropriate flare at appropriate height for aircraft/conditions*
- *Cushion the aircraft onto the ground, with a running landing if appropriate, whilst maintaining heading*
- *Lower collective lever judiciously*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*
- *Maintain directional control and balance throughout*
- *Control Nr throughout*

(p) Practice Forced Landings with Power Recovery

The Examiner will brief on how the PFL will be initiated during the Main briefing. The HASEL checks and carb heating selection are the responsibilities of the Examiner for this exercise.

- *Enter autorotation*
- *Select the landing site*
- *Adopt the appropriate autorotative technique to 'make' the selected landing site*
- *Carry out the appropriate radio calls (in the cockpit only)*
- *Carry 'touch drills' to indicate emergency cockpit drills*
- *Close throttle to idle position (only if appropriate and briefed by the examiner)*
- *Give appropriate warning to passenger*
- *When instructed by the Examiner to 'Go Around' (or at an agreed height/altitude) open throttle (if closed) and establish the aircraft in a climb using the nominated climbing speed*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*
- *Maintain directional control and balance throughout*
- *Control Nr throughout*

(q) Confined Area including power checks, recce technique, approach and departure techniques *(The Examiner will nominate the confined area to be used)*

- *Identify the nominated landing area and conduct appropriate recce to cover at least the following points (normally not conducted lower than 500ft agl):*
 - *Size* *Is the confined area large enough for pilots ability and aircraft size and which type of approach will it require?*
 - *Shape* *In relation to the wind direction/final approach*
 - *Surrounds* *Outer - habitation, hazards that may affect the circuit, approach, overshoot*
Inner - hazards in the immediate area of the landing site
 - *Slope & Surface* *Suitability of the landing site (may require confirmation prior to landing)*
(It may be appropriate to include other considerations such as sun, shadow, wires etc)
- *Carry out power check (normally into wind, within 500ft agl of the landing area), note power available*
- *Conduct circuit and approach, identifying escape routes and landing committal point in order to carry out a landing, dummy approach or go around as appropriate*
- *Establish hover at appropriate height in the confined area (land/spot turn only if requested by Examiner)*
- *When instructed to take off by the Examiner note power available and carry out the appropriate take off profile, in*

- *an appropriate direction, to depart the confined area*
- *Maintain directional control and balance throughout*
- *Control Nr throughout*
- *Complete all necessary checks and drills throughout*
- *Maintain lookout throughout*

SECTION 3 – NAVIGATION EN-ROUTE PROCEDURES

(a) Navigation and orientation at various altitudes or heights and map reading

- *Complete all elements of VFR planning for the route prescribed with particular reference to planned altitudes and safe levels of operation*
- *Identify position visually by reference to ground features and map*

(b) Altitude or height, speed, heading control, observation of airspace and altimeter settings

- *Control helicopter altitude speed and heading using visual attitude flying techniques*
- *Maintain the heading height and speed as computed in navigation log or advised to the Examiner within the prescribed limits observing airspace*
- *Complete all necessary checks and drills*
- *Set altimeter to QNH, Regional Pressure setting (RPS), Standard pressure setting, or QFE as specified in checklist, Flying Order Book or as appropriate*

(c) Monitoring of flight progress, flight log, fuel usage endurance ETA assessment of track error and re-establishment of correct track and instrument monitoring

- *Navigate by means of calculated headings, ground speed and time*
- *Make appropriate corrections to maintain track*
- *Achieve destinations or turning points within 3 minutes of estimated time of arrival (ETA)*
- *If appropriate configure engine for cruise/endurance performance in accordance with Flight Manual*
- *Adjust and monitor fuel consumption for range or endurance if appropriate*
- *Make regular checks for carburettor icing, if appropriate*

(d) Observation of weather conditions and diversion planning

- *Calculate heading, ground speed, ETA and fuel required during any unscheduled diversion*
- *Calculate Minimum Safe Altitude for track to new destination*
- *Navigate by means of calculated headings, ground speed and time*
- *Maintain the heading height and speed as computed in navigation log or advised to the Examiner within the prescribed limits*
- *Observation of weather conditions with timely, appropriate captaincy decisions*

(e) Collision avoidance, lookout procedures (LAPL)

- *Understand fully, and comply with rules of the air (right of way etc).*
- *Maintain robust and regular look out*

(e) Use of navigation aids (where available) (PPL Only)

- *Select and identify appropriate radio and navigation aids as required or nominated by Examiner*
- *Carry out aircraft navigation instrument functional checks (if not already completed)*
- *Locate and record the helicopter position by using radio navigation equipment when required by the Examiner*
- *Intercept and maintain given tracks or radials using the navigation aids nominated*

(f) ATC liaison with due observance of regulations etc.

- *Set altimeter to QNH, Regional Pressure setting (RPS), Standard pressure setting, or QFE as specified in checklist, Flying Order Book or as appropriate*
- *Maintain two way R/T communication using correct phraseology throughout*
- *Obtain ATC clearances and appropriate level of service*
- *Comply with ATC clearances and instructions when required*
- *Display sound airmanship and cockpit management*

(Aerodrome arrival procedures)

- *Carry out appropriate checks and drills*
- *Set altimeters and cross check in accordance with check list, Flying Order Book or as required*
- *Comply with published arrival procedure or clearance*
- *Maintain adequate lookout and collision avoidance*
- *Consider weather and wind conditions, landing surface and obstructions*
- *Plan and follow the circuit pattern and orientation with the landing area*
- *From the circuit pattern establish the recommended helicopter approach configuration adjusting speed and rate of descent to maintain a stabilised approach*
- *Select and achieve the appropriate touchdown area*

- Complete all necessary checks and drills

SECTION 4 – FLIGHT PROCEDURES AND MANOEUVRES

Throughout this section the Examiner will be responsible for navigation and ATC liaison, but the applicant will be responsible for look out, except when conducting IF (PPL Only), when the Examiner will be responsible for lookout.

(a) Level flight, control of heading, altitude or height and speed

- Establish straight and level flight at a nominated speed, height and heading
- Control helicopter altitude, speed and heading using visual attitude flying techniques
- Maintain directional control and balance throughout
- Complete all necessary checks and drills throughout
- Maintain lookout throughout

(b) Climbing and descending turns to specified headings

- * Establish climb/descent and rate 1 turns onto nominated height and headings
- * Control helicopter altitude, and heading using visual attitude flying techniques
- * Maintain directional control and balance throughout
- * Complete all necessary checks and drills throughout
- * Maintain lookout throughout

(c) Level turns with up to 30° of bank, 180° to 360° left and right

- * Establish steep turns (up to 30 degrees angle of bank) onto nominated headings whilst maintaining altitude/height and speed
- * Control helicopter altitude, speed and heading using visual attitude flying techniques
- * Maintain directional control and balance throughout
- * Complete all necessary checks and drills throughout
- * Maintain lookout throughout

(d) Level turns 180 degrees left and right by sole reference to instruments (PPL Only)

The Examiner will simulate inadvertent entry into cloud, by means of screens, visors or goggles and the applicant will be required to execute a rate one level turn on instruments through 180° to return the aircraft to VMC on a suitable heading. Applicants are expected to show consideration of the safety factors necessary for flight in IMC.

- * Establish turns at rate 1, using the direction indicator, on to Examiners nominated headings whilst maintaining altitude/height and speed
- * Demonstrate competence at manoeuvring the aircraft by sole reference to flight instruments
- * Use an appropriate technique of instrument scanning and cross check to maintain flight within prescribes limits
- * Maintain directional control and balance throughout
- * Complete all necessary checks and drills throughout

SECTION 5 - ABNORMAL AND EMERGENCY PROCEDURES (SIMULATED WHERE APPROPRIATE)

The Examiner shall select a minimum of 4 items from this section. These may be performed in sections 1 through 4 or as a separate section.

- * Engine malfunctions including governor failure, carb/engine icing, oil systems, as appropriate
- * Fuel system malfunction
- * Electrical system malfunction
- * Hydraulic system malfunction including approach and landing without hydraulics, as appropriate
- * Main rotor/tail rotor malfunction (FFS or discussion only)
- * Fire drills including smoke control and removal, as applicable
- * Other abnormal and emergencies procedures as outlined in appropriate flight manual and with reference to Appendix 9 C to Part FCL, sections 3 and 4, including for ME helicopters: (a) simulated engine failure at take off (1) rejected take-off at or before TDP or safe forced landing at or before DPATO. (2) Shortly after TDP or DPATO. (b) Landing with simulated engine failure: (1) landing or go around following engine failure before LDP or DPBL (2) following engine failure after LDP or safe forced landing after DPBL

The candidate shall:

- * Analyse emergency or abnormal situation and formulate appropriate plan
- * Execute abnormal or emergency drills
- * Plan and execute further actions to ensure safe recovery of helicopter, passengers and crew
- * Use check list to confirm actions when time permits
- * Make suitable emergency R/T calls (given to Examiner but not transmitted)
- * Inform ATC of practice emergency situation and assistance required (where appropriate)

APPENDIX 3 PPL SKILL TEST TOLERANCES

The following is an extract from EASA Part-FCL AMC2 FCL.235

PROFILE	PPL SKILL TEST
Height - normal forward flight	± 150 ft
Height - with simulated major emergency	± 200 ft
Height - hovering IGE	± 2 ft
Heading/Tracking of radio aids - normal flight	± 10°
Heading/Tracking of radio aids - with simulated major emergency	± 15°
Speed take-off / approach	-10 kt / +15 kt
Speed all other flight regimes	± 15 kt
Ground drift - T.O. & hover IGE	± 3 ft
Ground drift landing	No sideways/ backwards movement

APPENDIX 4 SKILL TESTS – MANAGING STRESS

As you prepare for your test a certain amount of stress is helpful. Too much stress can be unhelpful, as it can affect your memory and concentration. Even the word **test** can induce panic and doubt. Here are some ways of managing and reducing your stress.

Make sure you eat regularly. Skipping a meal, e.g. breakfast, will make your blood sugar level unstable and this will make the symptoms of stress worse.

Do not be tempted to increase your intake of tea or coffee as caffeine will increase your stress level (a maximum of 5 cups of tea or coffee a day is recommended). Energy drinks may contain high levels of caffeine and will not help.

Exercise has been proved to reduce stress. It uses up the body chemicals produced by too much stress (e.g. adrenalin) and replaces them with endorphins, feel-good body chemicals. You can test this: next time you are going to take exercise note how stressed are you before you start, on a scale of 0 - 10 (where 0 = calm and 10 = stressed), then measure again when you return from the exercise. Therefore exercise on the day before the test and on the day of the test will help to reduce your stress levels. It will also distract you and help you to sleep well the night before. If you are feeling very stressed just before the test, take some vigorous exercise e.g. power walk round the car park before going in.

Stress is increased by negative thoughts e.g. 'I am going to fail this test'. Having the thought will not make any difference directly to the outcome of the test, but will increase your stress levels. Similarly don't load yourself with unreasonable assumptions of your required skills – no test demands a perfect performance.

If you find that despite your best endeavours your stress is higher than is helpful to you, try some distraction. Concentrate on the things around you, refocus your mind and distract yourself from your thoughts. Try listening to other people's conversations, count the number of red things in the room, guess what the people in the room may be going to eat that evening - anything that will engage your attention. The more detailed the task you give yourself, the more distracting it will be.

If you know that you are inclined to become stressed, then plan ahead how you might manage your stress. Decide what exercise you are going to take, and practise what form of distraction you are going to use. Make sure that you allow plenty of time on the day; do as much preparation in advance as is possible. Plan to arrive early and ensure that you have all the equipment that you may need. Don't add to the pressure; is it really sensible to book a flight home immediately after your test? If, say, family pressures are mounting consider a training break until things settle down. Do not be tempted to test just because money is tight – you must be ready.

During your test try to prioritise tasks; omitting or delaying a minor activity is preferable to rushing into a more important event. Listen carefully to ATC, both to your own clearances and instructions as well as to other calls that may affect you. Tell ATC what you want to do and avoid unwanted communication tasks when you are going to be busy.

The best defence against stress is the confidence that comes from sound preparation and regular practice. Various Standards Documents are available to you on the CAA web site which clearly set out what you are required to do. Your instructors are there to deliver the skills training necessary to meet the test standard.

Recurrent training and testing is going to be a feature of your aviation career. Coping with stress is just one more skill to learn on the way.