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| --- | --- | --- | --- | --- | --- |
| Flight no: | PPL(H) 2.\_\_\_ | Trainee name & ARN: |  | | |
| Date: |  | Instructor: |  | | |
| Aircraft registration: |  | Aircraft type: |  | Flight time: |  |

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| Lesson Overview  * Power + Attitude = Performance * Straight Flight – reference point/ heading, disc level, helicopter in balance * Level flight – attitude, balance * Straight & level at various airspeeds and power settings |

| PRE-FLIGHT KNOWLEDGE  Long Briefing: 1.0 hour Pre-flight Briefing: 0.3 hour  Underpinning knowledge: as required | |
| --- | --- |
| Content | |
| **Long briefing**– Coordination   * Aerodynamic forces acting on the rotor blade * Generation of lift * Attitude flying * Power + attitude = performance * Operation of controls and technique for maintaining straight flight & level flight * Instrument indications * Application in flight | |
| **Underpinning knowledge**:   * Review/expand previously introduced knowledge as required * Phonetic alphabet [C3(a)] * Aeronautical radio system components [C3(c)] * Characteristics of radio waves, wave propagation, transmission and reception [C3(d)] * Responsibilities of an aeronautical radio operator [C3(e)] * Applicable helicopter systems [H1(c)] * Monitoring helicopter systems and monitoring performance [H5(f)&(g)] * Basic radiotelephony phraseology and common aviation terminology [C1(a)&(b)] * Fuel requirements for day VFR flight operation [C2(b)&C4(a)] | |
| **HF & NTS**   * Principles of ‘see and avoid’ * Visual scan technique - use of clock code * Hand over/take over technique (e.g. ‘I have control – you have control’) * Control technique | |
| **Pre-flight briefing**   * Review flight sequences, what to expect, see & do * Check essential knowledge * Reinforce threat & error management * Reinforce significant airmanship points | |
| **Pre-flight knowledge components complete:** | **Instructor’s signature & date** |

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| Performance Standard | | |
| **3** | **2** | **1** |
| Has received training in the element, however is not able to consistently demonstrate competency to the standard required for qualification issue | Demonstrates a developing level of proficiency, and is deemed safe to conduct solo practice under direct supervision | Achieves competency to the standard required for qualification issue |

| FLIGHT TRAINING  Suggested flight time [1.0 hour dual] | | | |
| --- | --- | --- | --- |
| MOS Reference | Lesson Content (Elements & Performance Criteria) | Performance  Standard | |
| Required | Achieved\* |
| 1. C1.1 | 1. Communicating face-to-face |  |  |
|  | pronounces words clearly, using an accent that does not cause difficulties in understanding | 3 |  |
|  | conveys information in clearly structured sentences without confusion or ambiguity | 3 |  |
|  | uses an extensive vocabulary to accurately communicate on general and technical topics, without excessive use of jargon, slang or colloquial language | 3 |  |
|  | speaks fluently without long pauses, repetition or excessive false starts | 3 |  |
|  | responds to communications with actions that demonstrate that the information has been received and understood | 3 |  |
|  | exchanges information clearly in a variety of situations with both expert and non-expert English speakers while giving and receiving timely and appropriate responses | 3 |  |
|  | uses appropriate techniques to validate communications | 3 |  |
| 1. C1.2 | Operational communication using an aeronautical radio |  |  |
|  | apply the phonetic alphabet | 3 |  |
|  | transmit numbers | 3 |  |
|  | make appropriate transmissions using standard aviation phraseology | 3 |  |
| 1. C3.1 | Operate radio equipment |  |  |
| (b) | conduct transmission and receipt of radio communications using appropriate procedures and phraseology | 3 |  |
| 1. NTS1.1 | Maintain effective lookout |  |  |
| (b) | maintain radio listening watch and interpret transmissions to determine traffic location and intentions | 3 |  |
| 1. H1.1 | Start engine and rotor |  |  |
|  | helicopter is positioned with a view to safety and rotor clearance when starting engine and rotors | 2 |  |
| 1. H5.2 | Maintain straight and level flight |  |  |
|  | adjust attitude and power to achieve a constant height, heading and speed while remaining in balanced flight | 3 |  |
|  | lookout is maintained using a systematic scan technique at a rate determined by traffic density, visibility or terrain | 3 |  |
|  | natural horizon is used as primary attitude reference | 3 |  |
|  | nominated altitude is maintained | 3 |  |
| 1. H5.5 | Control helicopter at any speed |  |  |
| (a) | Adjust attitude and power to accelerate or decelerate the helicopter from any specified airspeed within the flight envelope to any other specified airspeed within the flight envelope while maintaining balanced flight and subsequently maintaining the new specified airspeed. | 3 |  |
| (b) | height awareness is maintained at all times and appropriate adjustments are made as required | 3 |  |
| (c) | wind conditions are monitored and appropriate allowance is made | 3 |  |
| (d) | helicopter is suitably controlled to ensure that it is operated within aircraft flight manual limits | 3 |  |

\*Enter the performance standard achieved if it is different to that required

Where it has not been possible to introduce performance criteria or the trainee has not achieved the required standard, the performance criteria must be covered during the next lesson. Enter these performance criteria in the lesson record for the subsequent lesson.

| CONSOLIDATION AND/OR REMEDIAL TRAINING | | | |
| --- | --- | --- | --- |
| MOS Reference | Lesson Content (Elements & Performance Criteria) | Performance  Standard | |
| Required | Achieved |
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| DEBRIEFING |
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| Content |
| * Training review and outcomes achieved against lesson objectives and the Part 61 MOS competency standards * Recommendations for next lesson (including any carryover/remedial training) * Trainee preparation for next lesson * Training record completion and sign off |

| COMMENTS AND OUTCOME | | |
| --- | --- | --- |
|  | | |
| **Proceed to next training session?** | **Yes** | **No** |

| Instructor’s signature & date | Trainee’s signature & date |
| --- | --- |
|  |  |