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| --- | --- | --- | --- | --- | --- |
| Flight no: | CPL(H)4.\_\_\_\_ | Trainee name & ARN: |  | | |
| Date: |  | Instructor: |  | | |
| Aircraft registration: |  | Aircraft type: |  | Flight time: |  |

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| Lesson Overview  * Introduction to manoeuvring the helicopter in hovering flight * Primary and secondary effect of the controls in the hover |

| PRE-FLIGHT KNOWLEDGE  Long Briefing: 1.0 hour Pre-flight Briefing: 0.3  Underpinning knowledge: as required | |
| --- | --- |
| Content | |
| **Long briefing** – Hover   * Aerodynamics of hovering flight. * Primary and secondary effects of controls in the hover. * Ground effect * Effects of wind * Visual scan technique * Application in flight | |
| **Underpinning knowledge**   * Review/expand previously introduced knowledge as required * Minimum equipment list [C2(c)] * Local aerodrome requirements [C2(f)] * Variations to planned fuel consumption [C4(h)] * Operating on different surfaces, including sealed and unsealed surfaces [H1(d)] * Dynamic rollover [H1(h)] * Local noise abatement procedures and curfews if applicable [H1(i)] * Height-velocity diagram [H2(a)] * Calculate helicopter performance [H2(b)] * Taxiway and runway markings [H2(f)] | |
| **HF & NTS**   * Lookout for loose objects, obstacles and people * Listen out for traffic * Fitness for flight * Effects of fatigue * Ambient temperature and the effects of dehydration * More frequent scanning of instruments is required due to higher than normal power use and fuel consumption * Visual scanning technique * Hand over/take over 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 | Communicating face-to-face |  |  |
|  | pronounces words clearly, using an accent that does not cause difficulties in understanding | 2 |  |
|  | conveys information in clearly structured sentences without confusion or ambiguity | 2 |  |
|  | uses an extensive vocabulary to accurately communicate on general and technical topics, without excessive use of jargon, slang or colloquial language | 2 |  |
|  | speaks fluently without long pauses, repetition or excessive false starts | 2 |  |
|  | responds to communications with actions that demonstrate that the information has been received and understood | 2 |  |
|  | exchanges information clearly in a variety of situations with both expert and non-expert English speakers while giving and receiving timely and appropriate responses | 2 |  |
|  | uses appropriate techniques to validate communications | 2 |  |
| 1. C2.1 | Pre-flight actions and procedures |  |  |
| (b) | obtain, interpret and apply information contained in the required pre-flight operational documentation, including the following: |  |  |
|  | (i) minimum equipment list (MEL) | 3 |  |
|  | (ii) maintenance release | 3 |  |
|  | (iii) weather forecasts | 3 |  |
|  | (iv) local observations | 3 |  |
|  | (v) Notice to Airmen (NOTAM) | 3 |  |
|  | (vi) global navigation satellite system (GNSS) receiver autonomous integrity monitoring (RAIM) information | 3 |  |
|  | (vii) En Route Supplement Australia (ERSA) | 3 |  |
|  | (viii) Aeronautical Information Package (AIP) | 3 |  |
| 1. H2.1 | Lift off to hover and perform hover checks |  |  |
|  | aircraft performance is calculated for the flight | 3 |  |
|  | pre-take-off checks are performed | 3 |  |
|  | flight controls are set to prepare for lift-off to the hover | 3 |  |
|  | flight and power controls are used to lift helicopter off the surface to a stable hover at the appropriate height for the helicopter while controlling heading | 3 |  |
|  | wind effect is anticipated and accounted for with appropriate control inputs to maintain position over nominated hover point | 3 |  |
|  | awareness of adverse effects of rotor downwash on surrounding aircraft, people, objects and environment is demonstrated | 3 |  |
|  | perform hover checks | 3 |  |
|  | flight control functions, centre of gravity and hover power requirements are checked | 3 |  |
|  | at a constant and safe hover height, commence, maintain and stop a hover taxi manoeuvre while maintaining power and RRPM within the limits | 3 |  |
|  | coordinated corrective action is used to counter the effects of wind | 3 |  |
|  | implications of environmental conditions are assessed and appropriate compensation is made | 3 |  |
|  | helicopter is maintained clear of obstructions | 3 |  |
|  | lookout is maintained using a systematic scan technique at a rate determined by traffic density, visibility or terrain | 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 | | |
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|  | | |
| **Proceed to next training session?** | **Yes** | **No** |

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