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| --- | --- | --- | --- | --- | --- |
| Flight no: | CPL(H) 9.\_\_\_ | Trainee name & ARN: |  | | |
| Date: |  | Instructor: |  | | |
| Aircraft registration: |  | Aircraft type: |  | Flight time: |  |

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| Lesson Overview  * Conduct Maximum Performance Take Offs * Conduct Steep Approaches * Introduction to Air Transit |

| PRE-FLIGHT KNOWLEDGE  Long Briefing: 1.0 hour Pre-flight Briefing: 0.3 hour  Underpinning knowledge: as required | |
| --- | --- |
| Content | |
| **Long briefing** – Max Performance / Steep Approach   * Power management techniques on take off * Overpitching prevention/ Low RPM recovery * Sight picture technique on approach * VRS avoidance * Air transit procedures and regulations at an aerodrome | |
| **Underpinning knowledge** (relevant to the stage of training):   * Review/expand previously introduced knowledge as required * Helicopter performance limitations [H6(c)] | |
| **HF & NTS**   * Threat and error management detailing processes that can be used to identify and mitigate or   control threats and errors [NTS2(b)]   * Undesired aircraft states, including prevention, identifying and controlling [NTS2(e)] * How an undesired aircraft state can develop from an unmanaged threat or error [NTS2(f)] * Instrument scan including rate of descent on approach * Awareness of power limitations on take off * Hand over/take over technique * 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. C1.2 | Operational communication using an aeronautical radio |  |  |
| (c) | apply the phonetic alphabet | 2 |  |
| (d) | transmit numbers | 2 |  |
| (e) | make appropriate transmissions using standard aviation phraseology | 2 |  |
| (f) | use plain English effectively when standard phraseology is inadequate | 2 |  |
| (g) | receive appropriate responses to transmissions | 2 |  |
| 1. C2.1 | Pre-flight actions and procedures |  |  |
| (a) | complete all required pre-flight administration documentation | 2 |  |
| (b) | obtain, interpret and apply information contained in the required pre-flight operational documentation, including the following: |  |  |
|  | (ii) maintenance release | 2 |  |
| 1. C4.1 | Plan fuel requirements |  |  |
|  | determine the required fuel reserves | 2 |  |
|  | determine the quantity of fuel required taking into account operational requirements and relevant abnormal or emergency conditions and contingencies | 2 |  |
|  | determine the total fuel required for the flight | 2 |  |
| 1. C4.2 | Manage fuel system |  |  |
|  | verify fuel quantity on-board aircraft prior to flight using two independent methods | 2 |  |
|  | ensure the fuel caps are secured | 2 |  |
|  | perform fuel quality check prior to flight | 2 |  |
|  | ensure fuel drain cocks are closed | 2 |  |
|  | monitor fuel usage during the flight | 2 |  |
| (k) | operate fuel pumps and engine controls correctly | 2 |  |
| 1. NTS1.1 | Maintain effective lookout |  |  |
|  | maintain traffic separation using a systematic visual scan technique at a rate determined by traffic density, visibility and terrain | 2 |  |
|  | maintain radio listening watch and interpret transmissions to determine traffic location and intentions | 2 |  |
|  | perform airspace-cleared procedure before commencing any manoeuvre | 2 |  |
| 1. H3.3 | Perform air transiting manoeuvres |  |  |
|  | helicopter is manoeuvred, while allowing for prevailing conditions, over a prescribed track within the aerodrome boundaries that is clear of obstacles at a height not above 100ft AGL at airspeeds greater than speeds used for air taxiing | 3 |  |
|  | throughout air transit manoeuvres, helicopter performance is considered | 3 |  |
|  | awareness of adverse effects of rotor downwash on surrounding aircraft, people, objects and environment is demonstrated | 3 |  |
|  | manipulate instruments, switches or devices, when safe to do so, including when the release of the collective pitch lever is required, while maintaining height, heading, speed, and attitude and not exceeding RPM or power limits | 3 |  |
|  | adjust air transit ground speed to suit helicopter type, traffic conditions, congestion, and maintenance of control and to avoid collision with obstacles or other aircraft | 3 |  |
|  | lookout is maintained using a systematic scan technique at a rate determined by traffic density, visibility and terrain | 3 |  |
|  | appropriate risk management is applied during air transit manoeuvres | 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 |
| --- | --- |
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