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| --- | --- | --- | --- | --- | --- |
| Flight no: | CPL(H) 14.\_\_\_ | Trainee name & ARN: |  | | |
| Date: |  | Instructor: |  | | |
| Aircraft registration: |  | Aircraft type: |  | Flight time: |  |

|  |
| --- |
| Lesson Overview  * Types of tail rotor failure (e.g. fixed pitch failure, total loss of tail rotor thrust) * Indications of failure and the appropriate pilot response * Landing with a tail rotor failure in the cruise * Landing with a tail rotor failure in the hover |

| PRE-FLIGHT KNOWLEDGE  Long Briefing: 0.8 hour Pre-flight Briefing: 0.3 hour  Underpinning knowledge: as required | |
| --- | --- |
| Content | |
| **Long briefing** – Tail Rotor Failures   * Known hazards with the potential to cause tail rotor failure. * Mechanical causes of loss of tail rotor thrust * Procedures as per the AFM emergency section. * Extending the range in the cruise by using low power settings.. * Use of the detent position on the throttle for landing (R22/R44 only) | |
| **Underpinning knowledge** (relevant to the stage of training):   * Pan calls and their use in emergencies. | |
| **HF & NTS**   * Hand over/ Take over technique * Look out/ Listen out * Visual Scanning technique. * How an undesired aircraft state can develop from an unmanaged threat or error [NTS2(f)] | |
| **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. H7.3 | Manage a tail rotor malfunction in flight and at the hover |  |  |
|  | hover heights and surfaces are selected to maximise options in the event of tail rotor malfunction | 3 |  |
|  | tail rotor malfunction is correctly identified | 3 |  |
|  | immediate actions in the event of a tail rotor malfunction during flight are performed in accordance with the aircraft flight manual | 3 |  |
|  | control of the helicopter is established and a suitable landing area is selected | 3 |  |
|  | all emergency checks are performed and a plan is formulated to achieve an approach and landing | 3 |  |
|  | emergency radio messages of intentions are transmitted | 3 |  |
|  | a controlled emergency landing with a malfunctioning tail rotor is performed | 3 |  |
|  | situational awareness is maintained at all times during tail rotor malfunction handling 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 |
| --- |
| 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 |
| --- | --- |
|  |  |