**LESSON TE3-11 & TE3-12: ATTITUDE AND POWER CHANGES – LONG BRIEF**

**FLIGHT INSTRUCTOR RATING – GRADE 3 TRAINING ENDORSEMENT (Helicopter) LESSON PLAN & TRAINING RECORD**

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| **TRAINEE NAME:** |  | | | **TRAINEE ARN:** | |  |
| **INSTRUCTOR DEMONSTRATION DATE:** |  | | **TRAINEE READ BACK DATE (S):** |  | |  |
| **Performance Standard** | | | | | | |
| **3** | | **2** | | | **1** | |
| Has received training in the element, however is not able to consistently demonstrate competency to the standard required for the grant of the authorisation | | Is able to achieve competency to the standard required for the grant of the authorisation on the majority of occasions. | | | Achieves competency to the standard required for the grant of the authorisation. | |
| **Lesson Overview**   * Demonstration of long brief for **Attitude and Power Changes** * Read back of long brief for **Attitude and Power Changes** * The blueprint for this long brief is the operator’s approved lesson (long brief) from their PPL/CPL syllabus * Lesson objectives and underpinning knowledge to be demonstrated as applicable during long briefing | | | | | | |

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| **MOS**  **Reference** | **Lesson Content** *(Elements & Performance Criteria)* | **Performance Standard** | |
| **Required** | **Achieved** |
| **FIR-TE3.2** | **Demonstrate understanding of principles and methods of instruction** |  |  |
| (a) | apply knowledge and application of element 3, principles and methods of instruction, described in unit FIRC (instructor rating common) in schedule 3 of Part 61 MOS. | 3 |  |
| **FIR-TE3.3** | **Demonstrate Competencies of a grade 3 training endorsement** |  |  |
| (a) | apply good knowledge of the aeronautical knowledge units of competency for the RPL, PPL and CPL to the standard required for the issue of a CPL; | 2 |  |
| (c) | perform consistent management of lessons safely, efficiently and confidently; | 3 |  |
| **FIR-TE3.4** | **Conduct aeronautical knowledge training** |  |  |
| (e) | conduct aeronautical knowledge training demonstrating relevant performance criteria described in elements FIR4.1 and FIR4.2 of unit FIR4 (conduct aeronautical knowledge training and flight training) |  |  |
|  | **FIR4.1 Plan training** |  |  |
|  | (a) confirm trainee readiness for proposed training through review of training records to confirm their competency status | 3 |  |
|  | (b) identify training objectives based on performance criteria in the manual of standards and operator’s training plans; | 3 |  |
|  | (c) identify underpinning knowledge for the units and elements relevant to the lesson and confirm trainee understanding | 3 |  |
|  | (d) select appropriate training methods to facilitate training objectives and knowledge transfer | 3 |  |
|  | (e) apply threat and error management into each ground lesson; | 3 |  |
|  | (g) select appropriate training resources and confirm availability and serviceability of required facilities, equipment, training aids, reference material and the airworthiness of the training aircraft or device. | 3 |  |
|  | **FIR4.2 Conduct aeronautical knowledge training** |  |  |
|  | (a) establish a learning environment and motivation that suits the trainee's needs | 3 |  |
|  | (b) clearly state the training objectives | 3 |  |
|  | (c) conduct the lesson following or modifying the lesson plan to achieve training objectives and transfer of knowledge | 3 |  |
|  | (d) present and link new knowledge to previous knowledge; | 3 |  |
|  | (e) use selected training aids to illustrate and enhance explanations | 3 |  |
|  | (f) apply appropriate instructional techniques; with instruction to the point using clear and deliberate speech; | 3 |  |
|  | (g) deliver technical knowledge accurately and clearly to the required standard; | 3 |  |
|  | (h) provide opportunities for trainee participation and practice; | 3 |  |

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| **MOS**  **Reference** | | **Lesson Content** *(Elements & Performance Criteria)* | **Performance Standard** | |
| **Required** | **Achieved** |
|  | | (i) discuss threat and error management issues and ensure application understood by the trainee; | 3 |  |
|  | | (j) confirm training objectives is confirmed by questioning, review and other suitable methods | 3 |  |
|  | | (k) provide feedback on trainee performance; | 3 |  |
|  | | (l) develop trainee self-assessment skills; | 3 |  |
|  | | (m) complete training objectives in the time available; | 3 |  |
|  | | (n) ensure training is conducted effectively. | 3 |  |
| **FIR-TE3.5** | | **Develop Briefings and Plan flight training** |  |  |
| (f) | | prepare a training plan that identifies each ground briefing and flight exercise required to achieve the standards for the issue of an RPL, PPL and CPL (including training required for the issue of an endorsement on an RPL). The following units and elements are to be addressed: |  |  |
|  | | for helicopters |  |  |
|  | | elements in the following units to be addressed in relevant briefings/flight exercises as applicable |  |  |
|  | | (ii) C1 through C5 | 3 |  |
|  | | ground briefings and flight exercises prepared for |  |  |
|  | | (viii) H5.2 and H5.5 – attitude and power changes | 3 |  |
| **MOS Ref** | **Underpinning knowledge** | | | |
| **FIR-TE3** | **Grade 3 training endorsement** | | | |
|  | 1. Principles and methods of instruction (see unit FIRC); 2. underpinning knowledge included for the applicable units (for RPL, PPL and CPL and aircraft class rating) required for the lesson; | | | |

**Training Notes**

1. When delivering the critique, the instructor should be mindful that this is the first long brief read back by the trainee.
2. The long briefing should address
   * Aerodynamic forces acting on the helicopter; lift, weight, rotor thrust, drag

# Aerodynamic forces acting on the rotor blade

* + Generation of lift
  + Attitude flying
  + Power + attitude = performance
  + Operation of controls and technique for adjusting attitude and power
  + Instrument indications
  + Application in flight

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| **COMMENTS AND OUTCOME (INCLUDING ELEMENTS & PERFORMANCE CRITERIA THAT REQUIRE CONSOLIDATION AND/OR REMEDIAL TRAINING)** | |
|  | |
| **Instructor’s Signature & Date** | **Trainee’s Signature & Date** |
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