**LESSON TE3-63: NAVIGATION – DEMONSTRATION – LONG BRIEF 1 AND LONG BRIEF 2**

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

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| **TRAINEE NAME:** |  | | | **TRAINEE ARN:** | |  |
| **INSTRUCTOR DEMONSTRATION DATE:** |  | | **TRAINEE READ BACK DATE (S):** | Not Required | | Not Required |
| **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 **Basic Navigation** * Demonstration of long brief for **Advanced Navigation** * Discussion on the additional training requirements for a CPL student and where they fit into the main briefings * The blueprint for this long brief is the operator’s approved lesson (long brief) from their RPL syllabus | | | | | | |
| **Training Notes**  This lesson does not have any trainee instructor performance. It is included to provide guidance to the instructor on the content of the long briefings for navigation training and ensure that sufficient ground time is allocated to discussion and demonstrations to cover PPL and CPL requirements.  The instructor must demonstrate the navigation long briefings incorporating at least the items mentioned below. They can be demonstrated in succession in one session. The trainee instructor is then provided with opportunity to review and develop their briefings for the read back  It should be pointed out to the trainee that these briefings provide the core skills of pilot navigation as well as navigation using navigation aids and systems as a supplement to visual navigation. The instructor must emphasise the importance of focus on basic navigational techniques particularly at PPL level.  Sufficient ground time should be planned into the training course to allow the instructor to guide the trainee instructor through the additional knowledge and skill requirements for CPL students. These requirements should be incorporated into the advanced long brief as optional short briefings as required.  The discussion of CPL requirements should reference the additional knowledge prescribed in the CPL units in schedule 3 of Part 61 MOS.  The basic navigation long briefing should address   * Navigation equipment * Pre-flight briefing - obtaining and analysing weather forecasts, weather reports and NOTAMs * Route selection and preparation of navigation charts * Factors influencing choice of cruising levels * Last light calculations and considerations * Calculation of estimated fuel consumption, fuel reserves, operational requirements and preparation of fuel log * Preparation and submission of flight plan * Departure and arrival procedures/restrictions – non-towered aerodrome or landing area * Operations in Class G airspace, airspace restrictions (prohibited, restricted and danger areas) * Visual navigation techniques (e.g. work cycle, dead reckoning, ‘time-to-map-to-ground’, the ‘one-in-sixty’ rule) * Navigation checklist procedures, maintenance of navigation log * Engine handling considerations, fuel management and use of fuel log * Radio communication procedures * SAR requirements   The advanced navigation long brief should address   * Controlled airspace procedures * Departure and arrival procedures/restrictions – controlled aerodromes * Use of navigation aids and systems as a supplement to visual navigation – introduction to basic concepts, requirements and restrictions * Pre-flight operational decision making – carrying additional fuel, planning for holding and alternate aerodromes * Circumstances for which a diversion may be required, planning and carrying out a diversion * Calculating and flying for range and endurance * Navigation at low level * Procedure when unsure of position * Emergency and survival procedures | | | | | | |

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