### **Lesson Plan and Training Record**

### **CPL(A) 11: Navigation Exercise #7**

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| --- | --- | --- | --- | --- | --- |
| Flight no: | CPL (A) 11. \_\_\_ | Trainee name & ARN: |  | | |
| Date: |  | Instructor: |  | | |
| Aircraft registration: |  | Aircraft type: |  | Flight time: |  |

### Lesson Overview

* CPL Navigation Exercise 7 – Navigation route: [Enter navigation route]
* Simulated commercial exercise, including simulated passenger and cargo management and loading
* Simulated radio failure
* Revise:
  + Stalling, all configurations
  + Spin avoidance
  + Practice forced landing, simulated partial engine failure
  + Precautionary search and landing
  + Manage abnormal situations
  + Navigate at low level and in reduced visibility
  + Diversion procedure
* Assess:
  + Refuelling
  + Pre-flight actions and procedures, pre-flight inspection
  + Taxiing
  + Communicating face-to-face, operational communication using an aeronautical radio, operate radio equipment, manage R/T equipment malfunctions, operate transponder
  + Post flight actions and procedures.

### **Pre-Flight Knowledge**

* Long Briefing: as required
* Pre-flight Briefing: as required
* Underpinning knowledge: as required.

| Content | |
| --- | --- |
| Long briefing   * Preparation for and overview of exercise * Navigation over featureless terrain, extended overwater flights | |
| **Underpinning knowledge**   * Navigate in featureless terrain and extended over-water flights [NAV 4(d)] * Other as required | |
| **HF & NTS**   * As required | |
| **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 |
|  |  |

|  |  |  |
| --- | --- | --- |
| 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: 3.0 hours dual**

| MOS Reference | Lesson Content (Elements & Performance Criteria) | Performance  Standard | |
| --- | --- | --- | --- |
| Required | Achieved\* |
| NAV.1 | Prepare documents and flight plan |  |  |
|  | 1. calculate and document critical point (CP) and point of no return (PNR) locations | 2 |  |
| C1.1 | Communicating face-to-face |  |  |
|  | 1. pronounces words clearly, using an accent that does not cause difficulties in understanding | 1 |  |
|  | 1. conveys information in clearly structured sentences without confusion or ambiguity | 1 |  |
|  | 1. uses an extensive vocabulary to accurately communicate on general and technical topics, without excessive use of jargon, slang or colloquial language | 1 |  |
|  | 1. speaks fluently without long pauses, repetition or excessive false starts | 1 |  |
|  | 1. responds to communications with actions that demonstrate that the information has been received and understood | 1 |  |
|  | 1. exchanges information clearly in a variety of situations with both expert and non-expert English speakers while giving and receiving timely and appropriate responses | 1 |  |
|  | 1. uses appropriate techniques to validate communications | 1 |  |
| C2.1 | Pre-flight actions and procedures |  |  |
|  | 1. complete all required pre-flight administration documentation | 1 |  |
|  | 1. obtain, interpret and apply information contained in the required pre-flight operational documentation, including the following: |  |  |
|  | 1. minimum equipment list (MEL) | 1 |  |
|  | 1. maintenance release | 1 |  |
|  | 1. weather forecasts | 1 |  |
|  | 1. local observations | 1 |  |
|  | 1. Notice to Airmen (NOTAM) | 1 |  |
|  | 1. global navigation satellite system (GNSS) receiver autonomous integrity monitoring (RAIM) information | 1 |  |
|  | 1. En Route Supplement Australia (ERSA) | 1 |  |
|  | 1. Aeronautical Information Package (AIP) | 1 |  |
|  | 1. identify special aerodrome procedures | 1 |  |
|  | 1. identify all relevant radio and navigation aid facilities to be used during the flight (if applicable) | 1 |  |
|  | 1. determine the suitability of the current and forecast weather conditions for the proposed flight | 1 |  |
|  | 1. determine whether the aircraft is serviceable for the proposed flight | 1 |  |
| C2.2 | Perform pre-flight inspection |  |  |
|  | 1. identify and secure equipment and documentation that is required for the flight | 1 |  |
|  | 1. complete an internal and external check of the aircraft | 1 |  |
|  | 1. identify all defects or damage to the aircraft | 1 |  |
|  | 1. report to, and seek advice from, qualified personnel to determine the action required in relation to any identified defects or damage | 1 |  |
|  | 1. ensure all aircraft locking and securing devices, covers and bungs are removed and stowed securely | 1 |  |
|  | 1. certify the aircraft flight technical log entering any defects or endorsements to permissible unserviceabilities as appropriate | 1 |  |
|  | 1. complete and certify the daily inspection (if authorised to do so) | 1 |  |
| C4.3 | Refuel aircraft |  |  |
|  | 1. identify the correct type of fuel to be used | 1 |  |
|  | 1. ensure aircraft is earthed prior to refuelling and defueling operations | 1 |  |
|  | 1. correctly load and unload fuel | 1 |  |
|  | 1. ensure required fuel quantity is loaded | 1 |  |
|  | 1. ensure fuel caps are closed and secured after fuelling operations | 1 |  |
|  | 1. perform fuel quality checks | 1 |  |
| A1.2 | Taxi aeroplane |  |  |
|  | 1. use aerodrome or landing area charts to taxi aircraft | 1 |  |
|  | 1. comply with taxiway and other aerodrome markings, right-of-way rules and ATC or marshalling instructions when applicable | 1 |  |
|  | 1. perform applicable taxi checks, including the following: |  |  |
|  | 1. brakes and steering function normally and take appropriate action in the event of a malfunction | 1 |  |
|  | 1. instruments for correct readings | 1 |  |
|  | 1. altimeter setting | 1 |  |
|  | 1. maintain safe taxi speed and control of the aircraft | 1 |  |
|  | 1. maintain safe spacing from other aircraft, obstructions, and persons | 1 |  |
|  | 1. taxi the aeroplane along the centre of the taxiway | 1 |  |
|  | 1. avoid causing a hazard to other aircraft, objects or persons | 1 |  |
|  | 1. correct handling techniques are applied to take into account wind from all four quadrants | 1 |  |
|  | 1. correctly manage the engine during taxi manoeuvres | 1 |  |
| C3.1 | Operate radio equipment |  |  |
|  | 1. confirm serviceability of radio equipment | 1 |  |
|  | 1. conduct transmission and receipt of radio communications using appropriate procedures and phraseology | 1 |  |
|  | 1. maintain a listening watch and respond appropriately to applicable transmissions | 1 |  |
|  | 1. conduct appropriate emergency and urgency transmissions | 1 |  |
| C1.2 | Operational communication using an aeronautical radio |  |  |
|  | 1. maintain effective communication with others on operational matters | 1 |  |
|  | 1. communicate effectively in unfamiliar, stressful or non-standard situations | 1 |  |
|  | 1. apply the phonetic alphabet | 1 |  |
|  | 1. transmit numbers | 1 |  |
|  | 1. make appropriate transmissions using standard aviation phraseology | 1 |  |
|  | 1. use plain English effectively when standard phraseology is inadequate | 1 |  |
|  | 1. receive appropriate responses to transmissions | 1 |  |
|  | 1. respond to transmissions and take appropriate action | 1 |  |
|  | 1. recognise and manage communication errors and misunderstandings effectively | 1 |  |
|  | 1. seek clarification in the time available if a message is unclear or uncertainty exists | 1 |  |
|  | 1. react appropriately to a variety of regional accents | 1 |  |
|  | 1. communicate effectively in unexpected, stressful or non-standard situations using standard phraseology or plain English | 1 |  |
| C3.2 | Manage R/T equipment malfunctions |  |  |
|  | 1. perform radio failure procedures | 1 |  |
|  | 1. use fault finding procedures and perform corrective actions | 1 |  |
| C3.3 | Operate transponder |  |  |
|  | 1. operate a transponder during normal, abnormal and emergency operations | 1 |  |
|  | 1. recall transponder emergency codes | 1 |  |
| A5.1 | Enter and recover from stall *All configurations* | 2 |  |
| A5.2 | Avoid spin | 2 |  |
| A6.6 | Recover from unusual flight attitudes *Nose-high unusual attitude flight condition* | 2 |  |
| A6.3 | Perform forced landing (simulated) *(simulated partial engine failure)* | 2 |  |
| A6.4 | Conduct precautionary search and landing (simulated condition) | 2 |  |
| A6.5 | Manage other abnormal situations (simulated) *(e.g. high oil temperature, low oil pressure)* | 2 |  |
| NAV.5 | Navigate at low level and in reduced visibility | 2 |  |
| NAV.7 | Perform diversion procedure | 2 |  |
| C2.3 | Post-flight actions and procedures |  |  |
|  | 1. shut down aircraft | 1 |  |
|  | 1. conduct post-flight inspection and secure the aircraft (if applicable) | 1 |  |
|  | 1. complete all required post-flight administration documentation | 1 |  |

\*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 Outcomes | | |
| --- | --- | --- |
|  | | |
| Proceed to next training session? | Yes | No |

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