**Lesson TE9-16– Night circuits emergency– pre-flight brief and flight training**

|  |  |  |  |
| --- | --- | --- | --- |
| **Trainee name:** |  | **Trainee ARN:** |  |
| **Instructor name** |  | **Instructor ARN** |  |
| **Demonstration date** |  | **Trainee read back date:** |  |

|  |  |  |
| --- | --- | --- |
| **PERFORMANCE STANDARDS** | | |
| **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**   * Prepare pre-flight brief for night circuit emergencies (reference NVR1.5, NVR1.6 and NVR 1.7) * Demonstration of in-flight lesson for night circuits emergencies (reference NVR1.5, NVR1.6 and NVR 1.7) * Read back of pre-flight brief for night circuits emergencies * Read back of in-flight lesson for night circuits emergencies * The blueprint for the pre-flight brief and in-flight lesson is the operator’s approved lesson from their NVFR syllabus * Lesson objectives and underpinning knowledge to be demonstrated as applicable during read back | | |
| **TRAINING NOTES**   * The trainee instructor should be given the opportunity to prepare this pre-flight brief themselves follow completion of lessons TE9-13, TE9-14 and TE9-15. The pre-flight brief must include the performance criteria for NVR1, in particular NVR1.5, NVR1.6 and NVR1.7. * On completion of the demonstration, summarise the structure and delivery method of the pre-flight brief. * The trainee read back should be conducted after they have had the opportunity to prepare. The instructor should role play a student pilot during the read back. The read back should be followed by a de-brief from the instructor against the performance criteria. * Before demonstrating the in-flight lesson, the instructor should provide insight into appropriate delivery techniques. * On completion of the in-flight lesson, the instructor should debrief the trainee instructor against the performance criteria being cognisant that this is the first time the trainee has delivered a lesson on in night circuits. * The instructor should provide adequate opportunity for the trainees to fly the aircraft from the instructor seat in the various practice emergency configurations for practice and revision purposes. * Units NTS1 and NTS2 are described to element level only. The trainee instructor will already have demonstrated competency to performance standard 1 in previous lessons. If the trainee instructor does not meet the standard in this lesson the element/performance criteria must be identified in the consolidation/remedial training section to be addressed in the next lesson. * The suggested pre-flight brief duration refers only to the actual pre-flight brief duration. Refer to ground and flight summary for suggested ground hours. * 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. | | |

|  |  |
| --- | --- |
| **MOS**  **reference** | **UNDERPINNING KNOWLEDGE** |
| **FIR-TE9** | **Night VFR training endorsement** |
|  | 1. principles of instruction (FIR4); 2. underpinning knowledge included in applicable units IFF, IFL 3. underpinning knowledge included for the applicable units required for a night VFR rating; 4. relevant sections of Civil Aviation legislation; 5. assessment and workplace training competency standards; 6. principles of adult teaching and learning; 7. relevant workplace policies and procedures; 8. lesson planning and development; 9. preparation of training resources; 10. questioning techniques; 11. requirements for completing training documentation. |

|  |  |  |  |
| --- | --- | --- | --- |
| **MOS**  **reference** | **LESSON CONTENT**  **(Elements & Performance Criteria)** | **Performance standard** | |
| **Required** | **Achieved** |
| **FIR-TE9.1** | **Demonstrate knowledge of competency based training as applied to Night VFR rating training** |  |  |
| (d) | state key competencies required by a pilot to operate under the night VFR safely | 1 |  |
| **FIR-TE9.2** | **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 | 1 |  |
| **FIR-TE9.4** | **Plan flight training** |  |  |
| (a) | prepare a training plan that identifies each ground briefing and flight/flight simulator exercise, required to achieve the standards for the issue of a NVFR rating. The following units and elements are to be addressed |  |  |
|  | elements in units NTS1 and NTS2 to be addressed in relevant briefings and flight exercises as applicable; and |  |  |
|  | (i) basic instrument flight | 1 |  |
|  | (ii) conduct of traffic pattern at night | 2 |  |
| (b) | identify potential threats and errors normally associated with flight training at night and develop suitable mitigating action for each flight exercise. | 1 |  |
|  | **FIR4.1 Plan training** |  |  |
|  | (a) confirm trainee readiness for proposed training through review of training records to confirm their competency status | 1 |  |
|  | (b) identify training objectives based on performance criteria in the manual of standards and operator’s training plans; | 1 |  |
|  | (c) identify underpinning knowledge for the units and elements relevant to the lesson and confirm trainee understanding | 1 |  |
|  | (d) select appropriate training methods to facilitate training objectives and knowledge transfer | 1 |  |
|  | (e) apply threat and error management into each ground lesson; | 1 |  |
|  | (f) identify potential threats and errors in a flight lesson, including those associated with simulation of abnormal or emergency procedures or aircraft mishandling by trainee, and consider suitable mitigators; | 1 |  |
|  | (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. | 1 |  |
| **FIR-TE9.6** | **Conduct flight training** |  |  |
| (a) | conduct flight training in accordance with the training plan demonstrating all skills and behaviours described in element FIR4.4 of unit FIR4 (conduct aeronautical knowledge training and flight training) |  |  |
|  | **FIR4.4 Conduct airborne training** |  |  |
|  | (a) manage responsibilities as pilot in command for the safe operation of the aircraft; | 1 |  |
|  | (b) apply flying techniques and procedures to the competency standards specified for the qualification being trained for whilst occupying the instructor seat; | 1 |  |
|  | (c) demonstrate the task: |  |  |
|  | (i) introduce tasks in manageable portions without trainee overload; | 1 |  |
|  | (ii) make clear, concise and systematic explanations; | 1 |  |
|  | (iii) coordinate demonstration with explanation of manoeuvre; | 1 |  |
|  | (iv) make coordinated control inputs without abrupt manoeuvring, using accepted techniques; | 1 |  |
|  | (v) demonstrate the manoeuvre to the competency standards specified in this manual for a commercial pilot. | 1 |  |
|  | (d) direct the task : |  |  |
|  | (i) implement handover and takeover procedures for control of aircraft; | 1 |  |
|  | (ii) provide direction appropriate to trainee’s progress; | 1 |  |
|  | (iii) provide instructions in a clear, concise and timely manner; | 1 |  |
|  | (iv) provide sufficient practice for the trainee to achieve the task; | 1 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **MOS**  **reference** | **LESSON CONTENT**  **(Elements & Performance Criteria)** | **Performance standard** | |
| **Required** | **Achieved** |
|  | (v) intervene only to the extent necessary to assist the trainee’s progress or to maintain safety. | 1 |  |
|  | (e) monitor the task (unassisted practice): |  |  |
|  | (i) identify the trainee’s deficiencies and provide feedback to assist the trainee in achieving the standard; | 1 |  |
|  | (ii) provide and vary additional instruction and demonstration as necessary to assist the trainee; | 1 |  |
|  | (iii) ensure remedial training is effective such that errors are corrected; | 1 |  |
|  | (iv) encourage the trainee to develop self-assessment skills; | 1 |  |
|  | (v) note training events for debriefing and assessment. | 1 |  |
|  | (f) intervene to recover the aircraft if trainee does not manage an undesired aircraft state; | 1 |  |
|  | (g) develop the trainee‘s responsibility through the application of human factors principles for threat and error management | 1 |  |
| (b) | perform flying techniques and procedures to the competency standards specified for the issue of a night VFR rating whilst occupying the instructor seat | 1 |  |
| (c) | maintain situational awareness during all phases of flight demonstrating the performance criteria specified in unit NTS1; |  |  |
|  | **NTS1 Non-technical Skills 1** |  |  |
|  | NTS1.1 Maintain effective lookout | 1 |  |
|  | NTS1.2 Maintain situational awareness | 1 |  |
|  | NTS1.3 Assess situations and make decisions | 1 |  |
|  | NTS1.4 Set priorities and manage tasks | 1 |  |
|  | NTS1.5 Maintain effective communications and interpersonal relationships | 1 |  |
| (d) | manage threats and errors during all phases of the flight demonstrating the performance criteria specified in unit NTS2; |  |  |
|  | **NTS2 Non-technical Skills 2** |  |  |
|  | NTS2.1 Recognise and manage threats | 1 |  |
|  | NTS2.2 Recognise and manage errors | 1 |  |
|  | NTS2.3 Recognise and manage undesired aircraft state | 1 |  |
| **FIR-TE9.7** | **Conduct post-flight briefing** |  |  |
| (a) | conduct post-flight briefing demonstrating all performance criteria described in element FIR4.5 of unit FIR4 (conduct aeronautical knowledge training and flight training); |  |  |
|  | **FIR4.5 Conduct post-flight briefing** |  |  |
|  | (a) encourage the trainee to self-assess performance against the performance criteria; | 1 |  |
|  | (b) describe clearly and accurately, significant details of the trainee’s performance and assess the train | 1 |  |
|  | (c) identify any deficiencies in performance and suggest remedial actions and training; | 1 |  |
|  | (d) discuss threat and error management issues encountered during the flight; | 1 |  |
|  | (e) brief the trainee on the details of the next training exercise; | 1 |  |
| **FIR-TE9.8** | **Conduct post-training administration** |  |  |
| (a) | complete post-training administration demonstrating performance criteria in element FIR4.6 of unit FIR 4 (conduct aeronautical knowledge training and flight training). |  |  |
|  | **FIR4.6 Complete post-training administration** |  |  |
|  | (a) record achievement, or otherwise, of competency, any remedial training required and identify content of the next training exercise; | 1 |  |
|  | (b) complete administration procedures required for issue of an endorsement or military equivalent where applicable. | 1 |  |
|  | (c) inform relevant staff of trainee’s performance and results where required; | 1 |  |
|  | (d) review effectiveness of training and identify any adjustments to delivery, presentation and | 1 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **MOS**  **reference** | **LESSON CONTENT**  **(Elements & Performance Criteria)** | **Performance standard** | |
| **Required** | **Achieved** |
|  | content for improvement, and discuss with appropriate stakeholders. |  |  |

**COMMENTS AND OUTCOME (INCLUDING ELEMENTS & PERFORMANCE CRITERIA THAT REQUIRE CONSOLIDATION AND/OR REMEDIAL TRAINING)**

|  |  |
| --- | --- |
| **INSTRUCTOR’S SIGNATURE & DATE** | **TRAINEE’S SIGNATURE & DATE** |
|  |  |