**Instructor rating**

**Grade 3 training endorsement (helicopter)**

##### Version 1.0

**File ref: D17/381186**

**September 2017**

Revision history

|  |  |  |  |
| --- | --- | --- | --- |
| **VERSION** | **DESCRIPTION** | **AUTHOR** | **PUBLISH DATE** |
| 1.0 | Initial release |  |  |

Contents

1. [Syllabus notes 4](#_bookmark0)
   1. [Overview of training course 4](#_bookmark1)
   2. [Course Content 5](#_bookmark2)
2. [Guidance for all training courses 14](#_bookmark3)
3. [Ground and flight training summary 16](#_bookmark4)
4. [Progress and achievement record 20](#_bookmark5)
   1. [Trainee progress record 20](#_bookmark6)
   2. [Training achievement record 23](#_bookmark7)
5. [Course completion certificate 24](#_bookmark8)

##### [Appendix A](#_bookmark9) [Appendix B](#_bookmark10)

##### [Draft competency unit – FIR4 25](#_bookmark9)

##### [Draft unit – Grade 3 training endorsement - FIR-TE3 31](#_bookmark10)

## Syllabus notes

### Overview of training course

The holder of a Grade 3 training endorsement is authorised to conduct the following activities;

* + - Conduct flight training for specified aircraft category rating
    - Conduct flight training for RPL, PPL or CPL licences
    - Conduct flight training for an RPL endorsement
    - Approve a student pilot to conduct solo flight in an aircraft of the specified category, other than first solo in an aircraft of that category
    - Conduct flight training for a single aircraft class rating of the specified category The grade 3 training endorsement (helicopter) is item 3 of table 61.1235 of CASR Part 61. For the purposes of this document, TE means training endorsement.

A course of training for a grade 3 (helicopter) TE provides training and guidance to the applicant on conducting the activities mentioned above as well as ensuring that the applicant has the requisite knowledge and skills.

An applicant for a grade 3 (helicopter) TE is required to demonstrate competency conducting instruction in a flight test conducted by a fight examiner to the standards in the Part 61 Manual of Standards (MOS). These standards are prescribed in the following units that are found in Schedule 2 of the Part 61MOS

* + - NTS1 – Non-technical skills 1
    - NTS2 – Non-technical skills 2
    - FIR4 – Conduct aeronautical knowledge training and flight training
    - FIR-TE3 – Grade 3 training endorsement

The applicant must demonstrate good knowledge of the units of competency published in the Part 61 MOS for the issue of an RPL, PPL and CPL – refer to subpart 61T of CASR.

These syllabus notes should be read and cross referenced to the ground and flight training summary for FIR TE3 Grade 3 TE. The individual lesson plans/training records contain detailed information on the content of each lesson.

A training record must be completed for all ground and flight training undertaken by the applicant for the grade 3 TE. Examples are contained in the sample syllabus for the grade 3 training endorsement.

A course completion certificate must be issued to the applicant by the operator when the training has been successfully completed.

The focus of every lesson in the syllabus is flight instructor training and uses the operator’s applicable ground or airborne training events as a blueprint for the training.

Flying for the applicant should be in the instructor control seat.

This sample syllabus assumes this is an initial training endorsement for a flight instructor rating and provides training in all aspects of instructional technique.

The following notes provide guidance to operators on conducting training for a grade 3 TE. Training in these topics should adequately prepare an applicant for the flight test for a grade 3 training endorsement. It is not exhaustive and operators may choose to include additional topics in their syllabus.

It is not a requirement for instructor training to follow the same sequencing as ab-initio pilot training. The trainee instructor already knows how to fly and is expected to have a proficient standard of aircraft handling. This sample course lesson sequence generally conforms to pilot training with a few exceptions where a particular sequence has been chosen for instructional purposes. The order of lessons can remain flexible, but it is recommended the order is followed during the basic phase.

### Course Content

* + - Initial issue of Flight Instructor Rating
    - Basic Phase
    - Advanced Phase
    - Abnormals Phase

**Initial issue of Flight Instructor Rating**

Three topics are included in this phase.

* + - Training for unit FIRC – Principles and methods of instruction and legislation. This training may be completed using the operators approved course of training or may be conducted by a third party approved training organisation. The aim is to prepare the applicant for the CASA PIRC exam.
    - Short Theory Lessons – Using the knowledge and skills from the FIRC training the applicant presents a number of short aviation based theory lessons. The lessons will be on topics from the Part 61 MOS schedule 3 and should include one lesson from:
      * Basic Aeronautical Knowledge (BAK)
      * General Aeronautical Knowledge (AK)
      * Aerodynamics (AD)
      * Flight rules and air law (FR)
      * Navigation (NV)
      * Meteorology (MT)

#### Basic Phase

##### Lesson TE3-1 - Review principles of competency-based training and assessment as applied to RPL, PPL and CPL training

The objectives of the training session are to:

* + - Guide the trainee instructor through Part 61 legislation and Manual of Standards (MOS) sections relevant to an RPL, PPL and CPL qualification and single-engine class rating
    - Revise the trainee instructor in the concepts and application of competency based training as it applies to the RPL, PPL, CPL and single-engine class rating using the part 61 MOS
    - Review the underpinning knowledge relating to the RPL, PPL, CPL and single-engine class rating and confirm the trainee instructor has the appropriate knowledge

##### Lesson TE3-2 – Instructor control seat familiarisation

* + - Experience shows trainee instructors require recent and competent handling skills in the instructor control seat before they are introduced to learning new skills associated with airborne

instructional technique (AIT). This is best achieved during isolated training in the instructor control seat without the complication of AIT learning. One flight has been included here, operators may assess an applicant as requiring more than this one flight on a case by case basis.

* + - The flight should include briefings and flight covering aircraft basic, advanced and emergency handling from the instructor control seat. There should be some emphasis on recognition and recovery from undesired aircraft state.

##### Lesson TE3-3 FIR Tutorials

* + - Principles and methods of airborne instructional technique and;
    - Application of the demonstrate, direct and monitor process.
    - These two tutorials build on theory in PMI but are in the airborne context and will:
      * Provide the trainee instructor with insight into practical techniques that can be applied in airborne instruction that will enhance student learning
      * Introduce the application of the demonstrate, direct and monitor process in airborne instruction
      * Review the principles of learning with emphasis on trainee instructor understanding of their importance and application when delivering airborne instruction
      * Provide the trainee instructor with techniques and considerations that can be applied to the average student when delivering airborne training
      * Guide the trainee instructor in understanding the importance of logical delivery and safety/risk management in airborne instruction

##### Lesson TE3-4 FIR Tutorials

* + - Planning an airborne lesson
    - Prepare and conduct pre-flight briefings
    - These two tutorials prepare the trainee instructor for planning an airborne lesson and preparing effective pre-flight briefings. The objectives are:
      * Provide the trainee instructor with focused guidance on planning an airborne lesson and preparing a pre-flight brief
      * Review the principles of learning with the trainee, with particular emphasis on understanding their importance and application when developing an airborne lesson and pre-flight briefing
      * Provide the trainee instructor with techniques and advice on the content and presentation of pre-flight briefs that will assist learning by most students
      * Provide the trainee instructor with considerations and techniques for developing airborne lessons with emphasis on logical delivery and safety/risk management

##### Lessons TE3-5 to TE3-8 Pre-flight actions and procedures and Pre-flight inspection

* + - These four lessons are ground based and provide opportunity for the trainee instructor to deliver instruction for the two topics having been shown the blueprint by the FIR instructor. The two topics should be conducted separately as a demonstration and read back. For additional notes refer to the sample lesson plan and training record.

##### Lesson TE3-9 Maintain straight and level/Speed changes

* + - This is a concept training flight for the FIR Instructor to introduce the trainee instructor to the use of demonstration and directing during a flying lesson. The emphasis of the lesson is on airborne instructional technique (AIT) how to conduct a demonstration and directing a simple sequence.

The chosen sequence is simple and benign to allow for the presentation of demonstrations in an unhurried fashion. No Long Brief is included for this lesson as the focus for the ground instruction is FIR tutorials 1 to 4.

* + - The pre-flight brief is for the FIR instructor to detail the AIT elements of the lesson only. No read back is required at this stage of training.
    - Teach the trainee instructor how to ‘Demonstrate’ and ‘Direct’ using a simple flying sequence
    - The emphasis of the lesson is the application of airborne instructional technique and not the sequence itself. Teach how to teach, not what to teach.
    - Teach the trainee instructor how to pre-brief a demonstration, conduct a demonstration and debrief the demonstration. During the pre-flight briefing introduce the trainee instructor to other applications of a demonstration, such as ‘Quite demonstration, Proof of Concept demonstration and Divergent demonstration’. Allow the trainee to practice in slow time before moving on to directing
    - Teach the trainee instructor how to prebrief a direct, conduct a direct and debrief the direct. During the pre-flight briefing introduce the trainee instructor to other applications of a direct, such as ‘Limited direct’. Allow the trainee to practice directing and only input faults that are due to the trainee instructor’s poor technique in directing.
    - For additional information refer to the sample lesson plan and training record.

##### Lesson TE3-10 FIR Tutorial

* + - Developing a long brief
    - The objectives of the tutorial are to:
      * Provide the trainee instructor with focused guidance on developing a long briefing
      * Review the principles of learning with the trainee, with particular emphasis on understanding their importance and application when developing a long briefing
      * Provide the trainee instructor with techniques and advice on content and presentation of long briefs that will assist learning by most students

##### Lessons TE3-11 to TE3-13 Attitude and Power Changes

* + - TE3-11 is a demonstration by the FIR instructor of the long brief on topic.
    - TE3-12 is the trainee instructor read back of the long brief.
    - TE3-13 A demonstration and read back training flight. The pre-flight brief is for the FIR instructor to detail the instructional elements only and a read back is not required at this stage of training. The FIR instructor should demonstrate AIT for speed and power changes, and then allow the trainee instructor to practice these elements and consolidate the lesson on demonstrating and directing.

##### Lesson TE3-14 Climbing and Descending

* + - Demonstration and read back of the pre-flight briefing for climbing and descending.
    - A demonstration and read back training flight. The lesson is an opportunity for the trainee instructor to practice AIT using a simple flying sequence, having been shown the blueprint. The sequence also allows for an introduction to sub-division and this should be discussed during the pre-flight briefing.

##### Lesson TE3-15 FIR Tutorial

* + - Fault analysis and correction techniques (FA&C)
    - The objectives of the tutorial are to:
      * Provide the trainee instructor with guidance on identifying faults in skill performance of the average student
      * Provide the trainee with techniques to correct student faults
      * Review the principles of learning with focus on managing and correcting student faults to obtain a positive response from the student
    - Following this tutorial, fault analysis and correction should be introduced to all airborne training events. The FIR instructor should use opportunities during DEMO elements to demonstrate FA&C. The trainee instructor will then be given the chance to practice during Read Back elements of training.

##### Lessons TE3-16 to TE3-19 Medium Turns & Climbing and Descending Turns

* + - Demonstration and read back of the long brief for Turns & Climbing/Descending Turns.
    - Demonstration and read back of the pre-flight briefing for Turns & Climbing/Descending Turns.
    - Demonstration and read back training flights.
    - The lessons are an opportunity for the trainee instructor to consolidate AIT using a simple flying sequence, having been shown the blueprint. The sequence also allows for an introduction to sub-division and this should be discussed during the pre-flight briefing. The FIR instructor should demonstrate the application of fault analysis and correction during the demonstration flight. During the read back the FIR instructor should introduce faults. At this stage faults should be singular and simple.

##### Lessons TE3-20 to TE3-22 Effects of Controls

* + - Demonstration and read back of the long brief for Effects of Controls
    - Demonstration and read back of the pre-flight briefing for Effects of Controls
    - Demonstration and read back training flights
    - The lessons are an opportunity to conduct AIT for a complex flying sequence, having been shown the blueprint. The sequence also allows for sub-division and this should be discussed during the pre-flight briefing. During the read back consolidate FA&C. At this stage faults should be singular and simple

##### Lesson TE3-23 HOO Check (Basic Phase)

* + - Trainee delivers pre-flight brief on Basic Phase element
    - Trainee delivers in-flight lesson associated with pre-flight brief
    - Trainee delivers short demonstrations of other selected basic-phase in-flight lessons
    - Demonstration by trainee of circuit flying from instructor seat
    - Lesson objectives and underpinning knowledge to be demonstrated as applicable

#### Advanced Phase

A long brief is not included for all airborne events flown in the advanced and abnormal phases. From training session TE3-29 Control helicopter in hovering flight, the trainee instructor is expected to read back long briefs without the aid of a demonstration. Operators may choose to include long briefs for those airborne events where they have been omitted from this sample course

##### Lessons TE3-24 to TE3-25 Basic Autorotation

* + - Demonstration and read back of the long brief for Autorotation. Although the airborne lessons deal with basic autorotation’s the long brief should cover basic auto and power termination/touchdown. The advanced autos will be flown during the abnormals phase
    - Demonstration and read back of the pre-flight briefing for Basic Autorotation’s
    - Demonstration and read back training flights
    - The lessons are an opportunity to consolidate AIT for a complex flying sequence, having been shown the blueprint

##### Lesson TE3-28 to TE3-29 FIR Tutorials

* + - Student report writing and training record completion
    - Following this tutorial, the trainee instructor is required to complete a trainee record for each Read Back event.
    - Intervention and recovery techniques
      * Following this tutorial the trainee instructor is to be trained on and given opportunity to practice airborne intervention and recovery techniques applicable to aircraft type. The FIR instructor should plan on exposing the trainee instructor to typical situations where instructor intervention is likely to be required and the follow up de-briefing of the student pilot as part of the FA&C process.

##### Lesson TE3- 30 Control helicopter in Hovering flight

* + - Long brief and pre-flight brief read back
    - The trainee instructor should now be confident and competent enough to deliver ground elements of training without the aid of a blueprint demonstration. Following the pre-flight brief read back, the FIR instructor may need to standardise the AIREX to align with the model to be used during the demonstration flight

##### Lesson TE3-31 Hover, Lift-off to Hover & Land from the Hover

* + - Demonstration and read back training flight
    - Teach hover, lift-off to hover & land from the hover having been shown the blueprint. FIR instructor introduces intervention and recovery techniques IGE and the trainee instructor completes a student report and record of training on completion of the AIREX

##### Lesson TE3- 32 Take-off helicopter & Approach to the Hover

* + - Long brief and pre-flight brief read back
    - The trainee instructor should now be confident and competent enough to deliver ground elements of training without the aid of a blueprint demonstration. Following the pre-flight brief read back, the FIR instructor may need to standardise the AIREX to align with the model to be used during the demonstration flight

##### Lesson TE3-33 Take-off helicopter & Approach to the Hover

* + - Demonstration and read back training flight
    - Teach basic transitions having been shown the blueprint. The trainee instructor completes a student report and record of training on completion of the AIREX

##### Lesson TE3-34 FIR Tutorial

* + - Student solo considerations
      * Provide the trainee instructor with guidance on preparing for a dual flight check prior to student solo operations and the application of the standards to be applied
      * Provide the trainee with guidance on assessing student solo readiness with emphasis on human factors
      * Review the principles of learning with focus on assessing performance against the required standards
      * Review the environmental circumstances that must be considered for student solo operations

##### Lesson TE3-35 Circuits

* + - Long brief and pre-flight brief read back
    - Following the pre-flight brief read back, the FIR instructor may need to standardise the AIREX to align with the model to be used during the demonstration flight

##### Lesson TE3-36 Circuits (impromptu – Cross wind hovering)

* + - From this event onwards in preparation for the FIR flight test and to allow for the completion of all units/elements detailed in FIR-TE3.5 the trainee instructor is to be exposed to conducting impromptu instruction on the secondary sequence listed. This will take place when the FIR instructor is satisfied the lesson objectives of the main sequence are complete. The FIR instructor will decide what and how much assistance is given to the trainee instructor during the impromptu instruction.
    - Demonstration circuits training flight
    - Demonstration by the FIR instructor how to facilitate impromptu flight instruction

##### Lesson TE3-37 Circuits (impromptu – Sideways and Rearwards Flight)

* + - Read back circuits training flight, having been shown the blueprint
    - Read back impromptu sequence
    - Complete a student report and record of training on completion of the AIREX

##### Lesson TE3-38A to TE3-38B

* + - Confined Area Operations and Limited Power Operations are an opportunity for the trainee instructor to read back a flying lesson without the aid of seeing the blueprint (Demo) for these sequences. Operators may choose to include a Demo element for any sequence if they wish.
    - Confined Area Operations - Long brief read back
    - Limited Power Operations – Long brief read back

##### Lesson TE3-39 Confined Area Operations

* + - Pre-flight brief and AIREX read back
    - Complete a student report and record of training on completion of the AIREX

##### Lesson TE3-40 Limited Power Operations (impromptu – Slope Landings)

* + - Pre-flight brief and AIREX read back
    - Read back impromptu sequence
    - Complete a student report and record of training on completion of the AIREX

##### Lessons TE3-41 to TE3-44 Basic Instrument Flight (BIF)

* + - Basic Instrument Flight (BIF) training sessions are optional to allow the trainee instructor to facilitate BIF instruction. It also presents an opportunity to expose the trainee instructor to common BIF faults.
      * BIF long brief demonstration
      * BIF long brief read back
      * Demonstration and read back BIF training flight (include IFF and IFL)
      * Read back BIF (IFF) having been shown the blueprint
      * Complete a student report and record of training on completion of the AIREX
      * Read back BIF (IFL) having been shown the blueprint
      * Complete a student report and record of training on completion of the AIREX

##### Lesson TE3-45A to TE3-45B

* + - Navigation is an opportunity for the trainee instructor to read back a flying lesson without the aid of seeing the blueprint (Demo) for this sequence. The trainee instructor should be familiar with the route and airspace to be used during the AIREX. Operators may choose to include a Demo element for any sequence if they wish.
    - 2.5 hours of flight instruction has been allocated to this sequence which also includes a pinnacle or ridge operation. The operator may choose to conduct more than this allocated time to navigation instruction and add additional flights to cover more of the content included in the NAV unit.
    - Navigation (Basic) - Long brief read back
    - Navigation (Advanced) – Long brief read back

##### Lesson TE3-46 Navigation (impromptu – Pinnacle or Ridge operation)

* + - Pre-flight brief and AIREX read back
    - Read back impromptu sequence
    - Complete a student report and record of training on completion of the AIREX
    - Refer to the lesson plan and training record for further information and detail Guidance for all training courses

#### Abnormal Phase

##### Lesson TE3-47 FIR Tutorial

* + - Helicopter hazardous flight conditions
    - The objectives of the tutorial are to:
      * Provide additional awareness to the trainee instructor on helicopter hazardous flight conditions
      * Provide the trainee with guidance on teaching hazardous flight conditions as part of the RPL, PPL and CPL syllabus
      * Review relevant reference material for hazardous flight conditions
      * Confirm the trainees understanding of the relevant underpinning knowledge of hazardous flight conditions

##### Lesson TE3-48 Manage Forced Landings & Engine Failure at the Hover

* + - Long brief read back. Can be conducted as one LB or split into two

##### Lesson TE3-49 Manage Forced Landings (impromptu – Turns around the Mast, Nose and Tail)

* + - Demonstration PFL’s pre-flight briefing
    - Demonstration PFL’s training flight
    - Read back impromptu sequence

##### Lesson TE3-50 Manage Forced Landings (impromptu – Steep Turns)

* + - Read back PFL’s pre-flight briefing
    - Read back PFL’s training flight having been shown the blueprint
    - Read back impromptu sequence
    - Complete a student report and record of training on completion of the AIREX

##### Lesson TE3-51 Manage Engine Failure during Hover and Hover Taxy (impromptu – Taxiing)

* + - Demonstration pre-flight briefing
    - Read back pre-flight briefing
    - Demonstration and read back training flight
    - Trainee instructor teaches engine failures at the hover and taxy having been shown the blueprint
    - Read back impromptu sequence
    - Complete a student report and record of training on completion of the AIREX

##### Lesson TE3-521 Autorotation – Power Termination and Touchdown

* + - Demonstration pre-flight briefing
    - Demonstration training flight
    - Consolidate intervention and recovery techniques

##### Lesson TE3-53 Autorotation – Power Termination and Touchdown

* + - Read back pre-flight briefing
    - Read back lesson having been shown the blueprint
    - Consolidate intervention and recovery techniques
    - Complete a student report and record of training on completion of the AIREX.

##### Lesson TE3-54 Tail Rotor Malfunctions

* + - Long brief read back.

##### Lesson TE3-55 Tail Rotor Malfunctions

* + - Demonstration pre-flight briefing
    - Read back pre-flight briefing
    - Demonstration and read back training flight
    - Trainee instructor teaches tail rotor malfunctions having been shown the blueprint
    - Complete a student report and record of training on completion of the AIREX.

##### Lesson TE3-56 System Malfunctions

* + - The aim of this demo/read back lesson is to expose the trainee instructor to teaching other emergency or abnormal situations not already covered in the grade 3 syllabus. If the operator does not have a dedicated lesson on system malfunctions then a selection of malfunctions must be taken from the AFM.
    - Demonstration pre-flight briefing
    - Read back pre-flight briefing
    - Demonstration and read back training flight
    - Trainee instructor teaches system malfunctions having been shown the blueprint
    - Complete a student report and record of training on completion of the AIREX.

##### Lesson TE3-57 HOO Check (Pre-test assessment)

* + - Refer to the lesson plans and training records items 57A and 57B for details of the pre-test assessment.

## Guidance for all training courses

This training course covers the relevant aeronautical knowledge, practical flight skills and underpinning knowledge units and elements that are prescribed in the Part 61 MOS.

Each training course should be tailored to the needs of the applicant, taking into account the applicant’s entry level competencies and knowledge and any previous training.

Appropriate recognition of prior learning and current skills should be applied to the content of the training and documented accurately in the training records.

The training course has the following components:

* ground and flight training summary
* planning matrix
* progress and achievement record
* lesson plans and training record (combined)
* course completion certificate.

#### Ground and flight training summary

The summary table lists each training session with a reference, its description and the allocated time.

The summary table includes sufficient flight training to meet the requirements that would otherwise be required for the grant of the rating and endorsement in accordance with Part 61. It is a template and can be adjusted according to the entry level of the applicant and the training he or she needs to undertake to satisfy the prescribed competency standards in Schedule 2 of the Part 61 MOS.

#### Planning matrix

The planning matrix sets out the order in which the units and elements of training are presented as well as the anticipated performance standards for each lesson. It is a model plan and can be adjusted according to the needs of the applicant at the time the training is being conducted.

#### Achievement record

The achievement record is a record of the applicant achieving the practical flight standards prescribed for the rating and endorsement. The record should be progressively completed when the applicant has satisfactorily demonstrated competency for the unit and element on at least two occasions.

Applicants must achieve competency at performance standard 1 in each element of each unit in this achievement record. The performance criteria for the elements are prescribed in Schedule 2 of the Part 61 MOS.

The applicant may demonstrate competency using a combination of training course assessments and assessments of current competency achieved through prior training and operational experience.

The instructor conducting the training and assessments must certify that competency has been achieved by entering the details in achievement record entering their ARN, signature and the date when the applicant achieved the required competency performance standard.

#### Lesson plans and training record

A lesson plan is provided for each lesson listed in the planning matrix. Each lesson plan details the aeronautical knowledge topics and relevant underpinning knowledge topics that should be covered. The

lesson plans include a breakdown of the estimated time required for the long briefing and pre-flight briefing, where applicable.

The resources described in the lesson plan can be modified with suitable equivalent resources.

The underpinning knowledge topics are taken from the relevant sections of the units of competency.

The practical flight training section details the units and elements covered by the lesson that are prescribed in Schedule 2 of the Part 61 MOS. The relevant general instructor units are FIR1, 2 and 3; however, these have been consolidated into a new draft unit FIR4 that is attached at appendix A along with unit FIR-TE3 at Appendix B. FIR-TE3 is the unit for the grade 3 training endorsement. The underpinning knowledge topics are also taken from this draft unit. Reference is also made to applicable units in Schedule 2 of the Part 61 MOS.

The lesson comments and outcomes section of the lesson plan and training record should record the performance of the applicant in the particular lesson. Where the applicant has not achieved the standard in any or all of the elements, particular note must be made of the elements or performance criteria where the applicant requires further or remedial training. Additionally, the instructor trainer must clearly indicate that the applicant can proceed to the next lesson sequence.

#### Course completion certificate

A sample course completion certificate is included.

## Ground and flight training summary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **LESSON NUMBER** | **MOS REF** | **LESSON DESCRIPTION** | **GROUND HOURS** | **DUAL HOURS** | **TOTAL PROG FLIGHT TIME** |
| **For Initial issue of Flight instructor Rating (if required)** | | | | | |
|  |  | FIRC - Principles and Methods of Instruction and Legislation | 12.0 |  |  |
|  | FIR-TE3.2; FIR- TE3.3 | Short Theory Lessons (Aviation based - refer to course notes) | 12.0 |  |  |
| **Basic Phase** | | |  |  |  |
| TE3-1 | FIR-TE3.1 | Review CBT, Part 61 & Part 61 MOS for RPL,PPL & CPL | 3.0 |  |  |
| TE3-2 | FIR-TE3.3;FIR- TE3.7(c) & (d) | Conduct aircraft basic, advanced and emergency handling from instructor control seat | 1.0 | 1.5 | 1.5 |
| TE3-3 | FIR4.1; FIR4.4 | FIR Tutorial 1 - Principles and methods of airborne instructional technique  FIR Tutorial 2 - Application of the demonstrate, direct and monitor process | 3.0 |  |  |
| TE3-4 | FIR4.1; FIR4.3; FIR4.4; FIR4.5 | FIR Tutorial 3 - Planning an airborne lesson  FIR Tutorial 4 - Prepare and conduct pre-flight briefing | 3.0 |  |  |
| TE3-5 | C2.1 | Pre-flight actions and procedures – Demonstration | 1.0 |  |  |
| TE3-6 | C2.2 | Pre-flight inspection - Demonstration | 1.0 |  |  |
| TE3-7 | C2.1;FIR4.1; | Pre-flight actions and procedures – Read back | 1.0 |  |  |
| TE3-8 | C2.2;FIR4.1 | Pre-flight inspection – Read back | 1.0 |  |  |
| TE3-9 | H5.2;FIR4.3: FIR4.4 | Maintain Straight & Level/Speed changes – Demonstration | 1.0 | 1.2 | 2.7 |
| TE3-10 | FIR4.1; FIR4.2 | FIR Tutorial 5 - Developing a long brief | 2.0 |  |  |
| TE3-11 | H5.2;H5.5 | Attitude and Power Changes - Long Brief - Demonstration | 1.0 |  |  |
| TE3-12 | H5.2;H5.5; FIR4.1; FIR4.2 | Attitude and Power Changes - Long Brief – Read back | 1.0 |  |  |
| TE3-13 | H52;H5.5; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Attitude and Power Changes – lesson Demonstration and Read back. | 1.5 | 1.2 | 3.9 |
| TE3-14 | H5.1;H5.3; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Climbing & Descending – Pre-flight brief and lesson Demonstration and Read back | 1.5 | 1.2 | 5.1 |
| TE3-15 | FIR4.4 | FIR Tutorial 6 – Fault analysis and correction techniques | 1.5 |  |  |
| TE3-16 | H5.4 | Medium Turns and Climbing & Descending Turns - Long Brief - Demonstration | 1.0 |  |  |
| TE3-17 | H5.4;FIR4.1; FIR4.2 | Medium Turns and Climbing & Descending Turns - Long Brief – Read back | 1.0 |  |  |
| TE3-18 | H5.4;FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Medium Turns and Climbing & Descending Turns – pre- flight brief and lesson Demonstration | 1.0 | 1.0 | 6.1 |
| TE3-19 | H5.4; FIR4.1; | Medium Turns and Climbing & Descending Turns – | 0.7 | 1.0 | 7.1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **LESSON NUMBER** | **MOS REF** | **LESSON DESCRIPTION** | **GROUND HOURS** | **DUAL HOURS** | **TOTAL PROG FLIGHT TIME** |
|  | FIR4.3; FIR4.4; FIR4.5 | Read back |  |  |  |
| TE3-20 | H5 | Effect of Controls - Long Brief - Demonstration | 1.0 |  |  |
| TE3-21 | H5;FIR4.1; FIR4.2 | Effect of Controls - Long Brief – Read back | 1.0 |  |  |
| TE3-22 | H5; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Effect of Controls – Pre-flight brief and lesson Demonstration and Read back | 1.5 | 1.5 | 8.6 |
| TE3-23 |  | HOO Check (Basic Phase) | 2.5 | 1.5 | 10.1 |
| **Advance Phase** | | |  |  |  |
| TE3-24 | H6.2 | Autorotation - Long Brief - Demonstration | 1.5 |  |  |
| TE3-25 | H6.2;FIR4.1; FIR4.2 | Autorotation - Long Brief – Read back | 1.5 |  |  |
| TE3-26 | H6.2; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Autorotation (H6.2 (a) to (e) Basic autorotation) – pre- flight brief and lesson Demonstration | 0.7 | 1.0 | 11.1 |
| TE3-27 | H6.2; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Autorotation (H6.2 (a) to (e) Basic autorotation) – Read back | 0.7 | 1.0 | 12.1 |
| TE3-28 | FIR4.4 | FIR Tutorial 7 – Student report writing and training record completion | 1.2 |  |  |
| TE3-29 | FIR4.6 | FIR Tutorial 8 – Intervention and Recovery techniques | 1.2 |  |  |
| TE3-30 | H2;FIR4.1; FIR4.2 | Control Helicopter in Hovering Flight – Long brief and pre-flight brief – Read back | 2.0 |  |  |
| TE3-31 | H2; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Hover, Lift-off to Hover & Land from Hover – lesson Demonstration and Read back | 0.7 | 1.2 | 13.3 |
| TE3-32 | H4;FIR4.1; FIR4.2 | Take-off helicopter & Approach to Hover – Long Brief and pre-flight brief – Read back | 2.0 |  |  |
| TE3-33 | H4; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Take-off helicopter & Approach to Hover – lesson Demonstration and Read back | 0.7 | 1.2 | 14.5 |
| TE3-34 | FIR4.4  (FIR-TE3.7(b)) | FIR Tutorial 9 – Student Solo considerations | 1.0 |  |  |
| TE3-35 | H5.6;FIR4.1; FIR4.2 | Circuits - Long Brief and pre-flight brief – Read back | 2.0 |  |  |
| TE3-36 | H5.6;H2.5; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Circuits – pre-flight brief and lesson Demonstration and Cross-wind Hovering – Read back | 1.0 | 1.2 | 15.7 |
| TE3-37 | H5.6;H2.5; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Circuits – Read back and Sideways and Rearwards Flight – Read Back | 0.7 | 1.0 | 16.7 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **LESSON NUMBER** | **MOS REF** | **LESSON DESCRIPTION** | **GROUND HOURS** | **DUAL HOURS** | **TOTAL PROG FLIGHT TIME** |
| TE3-38 | H6.4;H6.5; FIR4.1; FIR4.2 | TE3-38A - Confined Area Operations – Long brief - Read back  TE3-38B - Limited Power Operations – Long brief – Read back | 1.5  1.5 |  |  |
| TE3-39 | H6.4; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Confined Area Operations – pre-flight brief and lesson and Read back | 0.7 | 1.2 | 17.9 |
| TE3-40 | H6.5;H6.3; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Limited Power Operations – pre-flight brief and lesson Read back and Slope Landings – Read back | 0.7 | 1.2 | 19.1 |
| TE3-41 | IFF;IFL; A6.6 | \* Basic Instrument Flight (BIF) - Long Brief – Demonstration (\*Optional) | 2.0 |  |  |
| TE3-42 | FIR4.1; FIR4.2 | \* Basic Instrument Flight (BIF) - Long Brief – Read back (\*Optional) | 2.0 |  |  |
| TE3-43 | FIR4.1; FIR4.3; FIR4.4; FIR4.5 | \* Basic Instrument Flight (BIF) – pre-flight brief and lesson Demonstration and Read back (\*Optional) | 1.0 | 1.0 | 20.1 |
| TE3-44 | FIR4.1; FIR4.3; FIR4.4; FIR4.5 | \* Basic Instrument Flight (BIF) – pre-flight brief and lesson Read back (\*Optional) | 0.7 | 1.0 | 21.1 |
| TE3-45 | ONTA; OGA;OCA; CTA;FIR4.1; FIR4.2 | TE3-44A - Navigation (Basic) - Long brief – Read back  TE3-44B – Navigation (Advanced) – Long brief – Read back | 1.5  1.5 |  |  |
| TE3-46 | ONTA;OGA; OCA; CTA;H6.6; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Navigation – pre-flight brief and lesson Read back and Land and Take-off from a Pinnacle or Ridge – Read back | 1.0 | 2.5 | 23.6 |
| **Abnormal Phase** | | |  |  |  |
| TE3-47 | FIR4.4; FIR- TE3.7;H4; H7 | FIR Tutorial 10 – Helicopter hazardous flight conditions | 3.0 |  |  |
| TE3-48 | H7.1;H7.2; FIR4.1;FIR4.2 | Manage Forced Landings & Engine Failure at the Hover  – Long Brief Read back | 1.0 |  |  |
| TE3-49 | H7.1;H2.3;H2.4; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Manage Forced Landings – pre-flight brief and lesson Demonstration and Turns Around the Mast, Nose and Tail – Read back | 0.7 | 1.2 | 24.8 |
| TE3-50 | H7.1;H6.1; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Manage Forced Landings – lesson Read back and Steep Turns – Read back | 0.7 | 1.2 | 26.0 |
| TE3-51 | H7.2;H3.2; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Manage Engine Failure during Hover and Hover Taxy – pre-flight brief and lesson Demonstration and Read back and Taxiing – Read back | 1.0 | 1.2 | 27.2 |
| TE3-52 | H6.2; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Autorotation – Power Termination and Touchdown – pre-flight brief and lesson Demonstration | 0.7 | 1.2 | 28.4 |
| TE3-53 | H6.2; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Autorotation – Power Termination and Touchdown – pre-flight brief and lesson Read back | 0.7 | 1.2 | 29.6 |
| TE3-54 | H7.3;H7.4; FIR4.1;FIR4.2 | Tail Rotor Malfunctions – Long brief - Read back | 1.5 |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **LESSON NUMBER** | **MOS REF** | **LESSON DESCRIPTION** | **GROUND HOURS** | **DUAL HOURS** | **TOTAL PROG FLIGHT TIME** |
| TE3-55 | FIR4.1; FIR4.3; FIR4.4; FIR4.5 | Tail Rotor Malfunctions – pre-flight brief and lesson Demonstration and Read back | 1.0 | 1.2 | 30.8 |
| TE3-56 | H7.5; FIR4.1; FIR4.3; FIR4.4; FIR4.5 | System Malfunctions – pre-flight brief and lesson Demonstration and Read back | 1.0 | 1.2 | 32.0 |
| TE3-57A TE3-57B |  | HOO Check Pre-test assessment – briefed by HOO | 2.5 | 1.5 | 33.5 |
|  |  | **Flight Test** | **4.0** | **1.5** | **35.0** |

1. **Progress and achievement record**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trainee’s name** |  | | **Trainee’s ARN** |  |  |
| **Date training commenced** |  | | **Date of assessment of prior learning and current competency (if applicable)** |  |  |
| **Date of Aeronautical Knowledge Examination pass (if applicable)** | |  | **Date of Knowledge Deficiency Report assessment (if applicable)** | |  |

### Trainee progress record

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LESSON** | **DATE** | **STD ACHIEVED?1** | **DATE2** | **\*STD ACHIEVED?** | **DATE2** | **STD ACHIEVED?1** | **FLIGHT HOURS** | **PROG HOURS** | **INSTRUCTOR ARN AND SIGNATURE** |
| TE3-1 |  |  |  |  |  |  |  |  |  |
| TE3-2 |  |  |  |  |  |  |  |  |  |
| TE3-3 |  |  |  |  |  |  |  |  |  |
| TE3-4 |  |  |  |  |  |  |  |  |  |
| TE3-5 |  |  |  |  |  |  |  |  |  |
| TE3-6 |  |  |  |  |  |  |  |  |  |
| TE3-7 |  |  |  |  |  |  |  |  |  |
| TE3-8 |  |  |  |  |  |  |  |  |  |
| TE3-9 |  |  |  |  |  |  |  |  |  |
| TE3-10 |  |  |  |  |  |  |  |  |  |
| TE3-11 |  |  |  |  |  |  |  |  |  |
| TE3-12 |  |  |  |  |  |  |  |  |  |
| TE3-13 |  |  |  |  |  |  |  |  |  |
| TE3-14 |  |  |  |  |  |  |  |  |  |
| TE3-15 |  |  |  |  |  |  |  |  |  |
| TE3-16 |  |  |  |  |  |  |  |  |  |
| TE3-17 |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LESSON** | **DATE** | **STD ACHIEVED?1** | **DATE2** | **\*STD ACHIEVED?** | **DATE2** | **STD ACHIEVED?1** | **FLIGHT HOURS** | **PROG HOURS** | **INSTRUCTOR ARN AND SIGNATURE** |
| TE3-18 |  |  |  |  |  |  |  |  |  |
| TE3-19 |  |  |  |  |  |  |  |  |  |
| TE3-20 |  |  |  |  |  |  |  |  |  |
| TE3-21 |  |  |  |  |  |  |  |  |  |
| TE3-22 |  |  |  |  |  |  |  |  |  |
| TE3-23 |  |  |  |  |  |  |  |  |  |
| TE3-24 |  |  |  |  |  |  |  |  |  |
| TE3-25 |  |  |  |  |  |  |  |  |  |
| TE3-26 |  |  |  |  |  |  |  |  |  |
| TE3-27 |  |  |  |  |  |  |  |  |  |
| TE3-28 |  |  |  |  |  |  |  |  |  |
| TE3-29 |  |  |  |  |  |  |  |  |  |
| TE3-30 |  |  |  |  |  |  |  |  |  |
| TE3-31 |  |  |  |  |  |  |  |  |  |
| TE3-32 |  |  |  |  |  |  |  |  |  |
| TE3-33 |  |  |  |  |  |  |  |  |  |
| TE3-34 |  |  |  |  |  |  |  |  |  |
| TE3-35 |  |  |  |  |  |  |  |  |  |
| TE3-36 |  |  |  |  |  |  |  |  |  |
| TE3-37 |  |  |  |  |  |  |  |  |  |
| TE3-38 |  |  |  |  |  |  |  |  |  |
| TE3-39 |  |  |  |  |  |  |  |  |  |
| TE3-40 |  |  |  |  |  |  |  |  |  |
| TE3-41 |  |  |  |  |  |  |  |  |  |
| TE3-42 |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LESSON** | **DATE** | **STD ACHIEVED?1** | **DATE2** | **\*STD ACHIEVED?** | **DATE2** | **STD ACHIEVED?1** | **FLIGHT HOURS** | **PROG HOURS** | **INSTRUCTOR ARN AND SIGNATURE** |
| TE3-43 |  |  |  |  |  |  |  |  |  |
| TE3-44 |  |  |  |  |  |  |  |  |  |
| TE3-45 |  |  |  |  |  |  |  |  |  |
| TE3-46 |  |  |  |  |  |  |  |  |  |
| TE3-47 |  |  |  |  |  |  |  |  |  |
| TE3-48 |  |  |  |  |  |  |  |  |  |
| TE3-49 |  |  |  |  |  |  |  |  |  |
| TE3-50 |  |  |  |  |  |  |  |  |  |
| TE3-51 |  |  |  |  |  |  |  |  |  |
| TE3-52 |  |  |  |  |  |  |  |  |  |
| TE3-53 |  |  |  |  |  |  |  |  |  |
| TE3-54 |  |  |  |  |  |  |  |  |  |
| TE3-55 |  |  |  |  |  |  |  |  |  |
| TE3-56 |  |  |  |  |  |  |  |  |  |
| TE3-57A/57B |  |  |  |  |  |  |  |  |  |

1: Indicate YES if trainee has achieved competency in accordance with the lesson plan and can progress to next lesson, indicate NO if trainee to repeat this lesson 2: Complete when trainee repeats lesson

### Training achievement record

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ELEMENT** | **DATE** | **INSTRUCTOR NAME (PRINTED)** | **INSTRUCTOR ARN** | **INSTRUCTOR’S SIGNATURE** |
| FIR-TE3.1 – Demonstrate knowledge of competency based training as applied to training for an aircraft category rating (aircraft specified), RPL, PPL and CPL |  |  |  |  |
| FIR-TE3.2 – demonstrate understanding of principles and methods of instruction |  |  |  |  |
| FIR-TE3.3 – Demonstrate competencies of a grade 3 training endorsement |  |  |  |  |
| FIR-TE3.4 – Conduct aeronautical knowledge training |  |  |  |  |
| FIR-TE3.5 – Develop briefings and plan flight training |  |  |  |  |
| FIR-TE3.6 – Conduct pre-flight briefing |  |  |  |  |
| FIR-TE3.7 – Conduct airborne training |  |  |  |  |
| FIR-TE3.8 – Conduct post-flight briefing |  |  |  |  |

**Trainee’s confirmation**

|  |  |  |  |
| --- | --- | --- | --- |
| I have received the training specified above and have been certified as competent and ready for flight test. | | | |
| **Trainee’s signature** |  | **Date** |  |

1. **Course completion certificate**

|  |  |
| --- | --- |
| **Name of course** | Grade 3 training endorsement (helicopter) |
| **Training provider name** |  |
| **Training provider ARN** |  |
| **Trainee name** |  |
| **Trainee ARN** |  |
| **Date commenced training** |  |
| **Date of final assessment** |  |
| **Certification** |  |
| **Head of Operations name or approved Course Manager** |  |
| **Signature** |  |
| **Date** |  |

**Appendix A**

**Draft competency unit – FIR4**

### {Insert copy of unit from

### Part 61 Manual of Standards Schedule 2}

# Appendix B

**Draft unit – Grade 3 training endorsement - FIR-TE3**

**{Insert copy of unit from**

**Part 61 Manual of Standards Schedule 2}**