

Appendix B

Draft unit – Instrument rating training endorsement - FIR-TE8

FIR-TE8 Instrument rating training endorsement

1 Unit description

This unit describes the skills and knowledge required to effectively plan, conduct and administer training authorised by the instrument rating training endorsement.

2 Elements and performance criteria

2.1 FIR-TE8.1 – Demonstrate knowledge of competency based training as applied to instrument rating training

- (a) describe the structure, content and context of the Part 61 MOS operational rating and endorsement standards for the instrument rating and private instrument rating;
- (b) describe the content of the flight test standards for an instrument rating and private instrument rating;
- (c) describe the requirements for an instrument rating proficiency check;
- (d) describe the requirement for a private instrument rating flight review;
- (e) state key competencies required by a pilot to operate under the IFR safely.

2.2 FIR-TE8.2 – 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.

2.3 FIR-TE8.3 – Demonstrate competencies and performance criteria required of the holder of an instrument rating training endorsement

- (a) apply comprehensive knowledge of the aeronautical knowledge units of competency for the instrument rating;
- (b) perform consistent management of lessons safely, efficiently and confidently;
- (c) manage all trainees, identify trainee weaknesses, provide targeted demonstrations to remedy faults and target remedial training to address the root cause of a deficiency.

2.4 FIR-TE8.4 – Conduct aeronautical knowledge training

- (a) conduct aeronautical knowledge training demonstrating applicable performance criteria described in elements FIR4.1 and FIR4.2 of unit FIR4 (conduct aeronautical knowledge training and flight training);
- (b) establish trainee understanding of underpinning knowledge included in unit CIR relating to conduct of an IFR flight;
- (c) establish trainee understanding of underpinning knowledge included in unit IAP2 for the conduct of a 2D instrument approach;
- (d) establish trainee understanding of underpinning knowledge included in unit IAP3 for the conduct of a 3D approach;
- (e) establish trainee understanding of underpinning knowledge included in units IFF and IFL;

- (f) establish trainee understanding of underpinning knowledge included in unit NVR1 for the conduct of night VFR operations;
- (g) establish trainee understanding of underpinning knowledge included in unit PIF (conduct a private IFR flight) and NVR2 and NVR3 (as appropriate) for the conduct of night VFR operations in relation to a private instrument rating;
- (h) establish applicants understanding of the underpinning knowledge specified in section 4 of the applicable units for the private instrument rating under review, in accordance with the flight review requirements described in schedule 7 of the Part 61 MOS.

2.5 **FIR-TE8.5 –Plan flight training**

- (a) prepare a training plan that identifies each ground briefing and flight/flight simulator exercise required to achieve the standard for the issue of an instrument rating and endorsements. The following units and elements are to be addressed:
 - (i) Elements in units NTS1 and NTS2 to be addressed in relevant briefings and flight/flight simulator exercises as applicable; and
 - (ii) IFF and IFL - basic instrument flight;
 - (iii) CIR.5 - navigation aid orientation, intercepting and tracking;
 - (iv) CIR.1 - flight planning under the IFR (day and night);
 - (v) CIR.2, CIR.3, CIR.4 and CIR.6 - instrument arrival and departures (including 1 engine inoperative considerations where applicable);
 - (vi) CIR.5 and CIR.12 - navigation under the IFR (including use of ground based and satellite based navigational systems as applicable);
 - (vii) CIR.11 and NVR1 - operations at night under the IFR;
 - (viii) IAP2.3 and IAP3.3 - holding procedures;
 - (ix) IAP2 and IAP3 - instrument approach procedures 2D and 3D (including 1 engine inoperative procedures where applicable);
 - (x) CIR.9, CIR.12, IAP2.5 and IAP3.5 - missed approach procedures;
 - (xi) CIR.10, IAP2.4 and IAP3.4 - visual approach procedures (including visual circling where applicable).
- (b) identify potential threats and errors normally associated with instrument flight training and develop suitable mitigating actions for each flight exercise.

2.6 **FIR-TE8.6 – Conduct pre-flight briefing**

- (a) perform effective pre-flight briefings for each training exercise in the training plan, including application of standard operating procedures, demonstrating applicable performance criteria described in element FIR4.1 and FIR4.3 of unit FIR4 (conduct aeronautical knowledge training and flight training);
- (b) demonstrate applicable performance criteria described in element FIR 7.1 (conduct pre-flight discussion) for a private instrument rating flight review,

2.7 FIR-TE8.7 – Conduct airborne training

- (a) conduct flight training in accordance with the training plan demonstrating skills and behaviours described in element FIR4.4 of unit FIR4 (conduct aeronautical knowledge training and flight training);
- (b) demonstrate instrument flying techniques and procedures and instrument approaches and associated aircraft handling techniques to the competency standards specified for the issue of an instrument rating whilst occupying the instructor seat (where appropriate);
- (c) maintain situational awareness during all phases of the flight demonstrating the performance criteria specified in NTS1;
- (d) manage threats and errors during all phases of the flight demonstrating the performance criteria specified in unit NTS2;
- (e) demonstrate applicable performance criteria described in element FIR7.2 (conduct review) for private instrument rating flight review,

2.8 FIR-TE8.8 – 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);
- (b) demonstrate applicable performance criteria described in element FIR7.3 (complete post-review briefing and administration) for a private instrument rating flight review,

2.9 FIR-TE8.9 – Complete post-training administration

- (a) complete post training administration demonstrating performance criteria in element FIR4.6 of unit FIR4 (conduct aeronautical knowledge training and flight training).

3 Range of variables

- (a) activities are performed in accordance with published procedures;
- (b) aeronautical knowledge training includes all units and elements of competency relevant to an instrument rating and private instrument rating;
- (c) flight training includes all units and elements of competency relevant to an instrument rating and private instrument rating and is supported by relevant pre and post flight briefings;
- (d) underpinning knowledge included for private instrument rating flight review;
- (e) aircraft may include:
 - (i) fixed wing (single-engine or multi-engine);
 - (ii) helicopter (single-engine or multi-engine);
 - (iii) other commercial or military aircraft;
 - (iv) aircraft fitted with analogue or digital flight instruments
 - (v) aircraft fitted with autopilots and/or flight management systems
- (f) approved flight simulation training device (FSTD);
- (g) suitable resources may include:

- (i) aircraft;
 - (ii) AIP, Jeppesen or other approved IAL plates;
 - (iii) training aids and learning resources;
 - (iv) training facilities.
- (h) environmental conditions may include:
- (i) hazardous weather;
 - (ii) variable weather;
 - (iii) IMC or simulated IMC;
 - (iv) day or night operations;
 - (v) CTA and OCTA airspace;
 - (vi) RVSM or non-RVSM airspace;
 - (vii) turbulence;
 - (viii) terrain.

4 Underpinning knowledge of the following:

- (a) principles of instruction (see FIR1, FIR2 and FIR3);
- (b) FIR4;
- (c) the underpinning knowledge included in units CIR, IAP2, IAP3, IFF,IFL, NVR1, NVR2, NVR3 and PIF;
- (d) relevant sections of Civil Aviation legislation;
- (e) common risks that exist when conducting instrument rating training;
- (f) common problems that may occur when conducting instrument rating training and appropriate action that should be taken in each case;
- (g) assessment and workplace training competency standards;
- (h) principles of adult teaching and learning;
- (i) human performance and limitations factors relevant to the training tasks;
- (j) psychological factors affecting satisfaction of human needs, defence mechanisms and stress management;
- (k) relevant workplace policies and procedures;
- (l) appropriate methods of analysis and training planning;
- (m) lesson planning and development;
- (n) preparation of training resources;
- (o) principles of assessment;
- (p) assessment of behaviour;
- (q) self-assessment and evaluation;

- (r) questioning techniques;
- (s) requirements for completing training documentation.