

## **Appendix B**

### **Draft unit – Formation aerobatics training endorsement - FIR-TE22**

## **FIR-TE22 Formation aerobatics training endorsement**

### **1 Unit description**

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

### **2 Elements and performance criteria**

#### **2.1 FIR-TE22.1 – Demonstrate knowledge of competency based training as applied to formation aerobatics endorsement training**

- (a) describe the structure, content and context of the Part 61 MOS flight activity endorsement standards for the formation aerobatics flight activity endorsement;
- (b) describe the requirements for exercising the privileges the formation aerobatics flight activity endorsement;
- (c) state key competencies required by a pilot for conducting formation aerobatics operations safely.

#### **2.2 FIR-TE22.2 - 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-TE22.3 – 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) demonstrate extensive understanding of the underpinning knowledge included in unit FAE-7 (aerobatics - formation);
- (c) establish trainee understanding of underpinning knowledge included in units FAE-7 (aerobatics - formation);
- (d) establish trainee understanding of underpinning knowledge included in units FAE-1 (aerobatics - 3000ft AGL);
- (e) establish trainee understanding of underpinning knowledge included in units FAE-6 (formation flying (aeroplane));
- (f) establish trainee understanding of underpinning knowledge included in units FAE-8 (spinning).

#### **2.4 FIR-TE22.4 – Develop briefings and plan flight training**

- (a) prepare a training plan that identifies each ground briefing and flight exercise required to achieve the standards for the issue of a formation aerobatics endorsement. The following units and elements are to be addressed:
  - (i) elements in units NTS1 and NTS2 to be addressed in relevant briefings and flight exercises as applicable; and
  - (ii) FAE-1 - aerobatics - 3000ft AGL;
  - (iii) FAE-6 - formation flying (aeroplane);

- (iv) FAE-7 – aerobatics – formation;
  - (v) FAE-8 – spinning.
- (b) identify potential threats and errors normally associated with formation flying operations and develop suitable mitigating actions for each flight exercise.

#### 2.5 **FIR-TE22.5 – Conduct pre-flight briefing**

- (a) perform effective pre-flight briefings for each flight exercise in the training plan, including application of standard operating procedures demonstrating relevant performance criteria described in elements FIR4.1 and FIR4.3 of unit FIR4 (conduct aeronautical knowledge training and flight training).

#### 2.6 **FIR-TE22.6 – Conduct airborne 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);
- (b) perform flying techniques and procedures to the competency standards specified for the issue of a formation aerobatics flight activity endorsement whilst occupying the instructor seat;
- (c) maintain situational awareness during all phases of the flight demonstrating the performance criteria specified in unit NTS1;
- (d) manage threats and errors during all phases of the flight demonstrating the performance criteria specified in unit NTS2;
- (e) recognise trainee errors and recover the aircraft when trainee capability or aircraft limitations may be exceeded.

#### 2.7 **FIR-TE22.7 – 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).

#### 2.8 **FIR-TE22.8 – 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 the formation aerobatics flight activity endorsement;
- (c) flight training includes all units and elements of competency relevant to the formation aerobatics flight activity endorsement and is supported by relevant pre and post flight briefings;
- (d) aircraft may include:
- (i) aeroplane (single-engine or multi-engine);
  - (ii) other commercial or military aeroplane;

- (e) aerodromes;
- (f) crew may include:
  - (i) single pilot;
  - (ii) multi-crew;
- (g) environmental conditions may include:
  - (i) variable weather;
  - (ii) day operations;
  - (iii) CTA and OCTA airspace;
  - (iv) turbulence;
  - (v) terrain;

#### **4 Underpinning knowledge of the following:**

- (a) principles of instruction (see unit FIRC);
- (b) FIR4;
- (c) underpinning knowledge included in applicable units FAE1, FAE-6, FAE7 and FAE8;
- (d) relevant sections of Civil Aviation legislation;
- (e) common risks that exist when conducting formation aerobatics operations endorsement training;
- (f) common problems that may occur when conducting formation aerobatics operations 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.