***Appendix 6.* Modular Training Courses for the IR**

 ***A.******IR ( A ) — Modular Flying Training Course***

 **GENERAL**

**1**. The aim of the IR ( A ) Modular Flying Training course is to train pilots to the level of proficiency necessary to operate aeroplanes under IFR and in IMC. The *course consists of*

***2*** *( two ) modules*, which may be taken separately or combined :

***a )******Basic Instrument Flight Module***

This comprises ***10*** *hours of instrument time* under instruction, of which *up to* ***5*** *hours* can be instrument ground time in a BITD, FNPT I or II, or an FFS. Upon completion of the Basic Instrument Flight Module, the candidate shall be issued a Course Completion Certificate.

***b )******Procedural Instrument Flight Module***

This comprises the remainder of the training syllabus for the IR ( A ), ***40*** *hours single - engine* or ***45***  *hours multi - engine instrument time under instruction*, and the theoretical knowledge course for the IR ( A ).

**2**. An applicant for a modular IR( A ) course shall be the holder of a PPL( A ) or a CPL( A ). An applicant for the Procedural Instrument Flight Module, who does not hold a CPL( A ), shall be holder of a Course Completion Certificate for the Basic Instrument Flight Module.

The ATO shall ensure that the applicant for a multi-engine IR ( A ) course who has not held a multi-engine aeroplane class or type rating has received the multi-engine training specified in Subpart H prior to commencing the flight training for the IR ( A ) course.

**3**. An applicant wishing to undertake the Procedural Instrument Flight Module of a modular IR ( A ) course shall be required to complete all the instructional stages in one continuous approved course of training. Prior to commencing the Procedural Instrument Flight Module, the ATO shall ensure the competence of the applicant in basic instrument flying skills.

 Refresher training shall be given as required.

**4.** The course of theoretical instruction *shall be completed within* ***18***  *months.* The Procedural Instrument Flight Module and the Skill Test shall be completed within the period of validity of the pass in theoretical examinations.

**5.** The course shall comprise:

***a )*** theoretical knowledge instruction to the IR knowledge level ;

***b )*** instrument flight instruction.

 **THEORETICAL KNOWLEDGE**

 **6**. An approved modular IR ( A ) course *shall comprise at least* ***150***  *hours* of theoretical knowledge instruction.

 **FLYING TRAINING**

**7.** A ***single - engine*** IR ( A ) course *shall comprise at least* ***50*** *hours instrument time* under instruction of which *up to* ***20*** *hours* may be instrument ground time in an FNPT I, or *up to* ***35***  hours in an FFS or FNPT II. A *maximum of* ***10*** *hours* of FNPT II or an FFS instrument ground time may be conducted in an FNPT I.

**8.** A ***multi - engine*** IR ( A ) course shall comprise *at least 55 hours instrument time under instruction*, of which *up to* ***25*** *hours*  may be instrument ground time in an FNPT I, or *up to* ***40*** *hours* in an FFS or FNPT II. A *maximum of* ***10*** *hours* of FNPT II or an FFS instrument ground time may be conducted in an FNPT I. The remaining instrument flight instruction shall include *at least* ***15*** *hours in multi - engine* aeroplanes.

**9.** The holder of a single-engine IR ( A ) who also holds a multi - engine Class or Type Rating wishing to obtain a multi - engine IR ( A ) for the first time shall complete a course at an ATO comprising *at least* ***5***  *hours instruction* in instrument flying in multi - engine aeroplanes, of which ***3*** *hours* may be in an FFS or FNPT II.

***10. 1.*** The holder of a CPL ( A ) or of a Course Completion Certificate for the Basic Instrument Flight Module may have the total amount of training required in *paragraphs 7* or *8* above reduced by ***10*** *hours.*

***10. 2.*** The holder of an IR ( H ) may have the total amount of training *required in paragraphs 7 or 8 above* *reduced to* ***10***  *hours.*

***10. 3.*** The total instrument flight instruction in aeroplane shall comply with *paragraph 7* or *8*, as appropriate.

**11.** The flying exercises up to the IR ( A ) Skill Test shall comprise :

***a )*** *Basic Instrument Flight Module :* Procedure and maneuver for basic instrument flight covering at least :

 basic instrument flight without external visual cues :

*— horizontal flight ;*

*— climbing ;*

*— descent ;*

*— turns in level flight, climbing, descent ;*

*— instrument pattern ;*

*— steep turn ;*

 *— radio-navigation ;*

*— recovery from unusual attitudes ;*

*— limited panel ;*

*— recognition and recovery from incipient and full stalls ;*

 ***b )*** *Procedural Instrument Flight Module :*

( i ) pre - flight procedures for IFR flights, including the use of the Flight Manual and appropriate air traffic services documents in the preparation of an IFR flight plan ;

( ii ) procedure and maneuvers for IFR operation under normal, abnormal and emergency conditions covering at least :

— transition from visual to instrument flight on Take-off ;

— SID *( standard instrument departures )* and STAR *( arrivals )* ;

— en - route IFR procedures ;

 — holding procedures ;

 — instrument approaches to specified minima ;

 — missed approach procedures ;

 — landings from instrument approaches, including circling ;

( iii ) in - flight maneuvers and particular flight characteristics ;

( iv ) if required, operation of a multi - engine aeroplane in the above exercises, including operation of the aeroplane solely by reference to instruments with one engine simulated inoperative and engine shutdown and restart *( the latter exercise to be carried out at a safe altitude unless carried out in an FFS or FNPT II ).*

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**Aa. IR ( A ) — Competency - based Modular Flying Training Course** ( CBMFTC )

 **GENERAL**

**1.** The aim of the competency-based modular flying training course is to train PPL or CPL holders for the instrument rating, taking into account prior instrument flight instruction and experience. It is designed to provide the level of proficiency needed to operate aeroplanes under IFR and in IMC. The course shall consist of a combination of instrument flight instruction provided by an IRI ( A ) or an FI ( A ) holding the privilege to provide training for the IR and flight instruction within an ATO.

**2.** An applicant for such a competency-based modular IR ( A ) shall be the holder of a PPL ( A ) or CPL ( A ).

**3.** The course of theoretical instruction shall be completed within 18 months. The instrument flight instruction and the skill test shall be completed within the period of validity of the pass of the theoretical knowledge examinations.

**4.** The course shall comprise :

***a )*** Theoretical knowledge instruction to the IR ( A ) knowledge level ;

***b )*** Instrument flight instruction.

 *THEORETICAL KNOWLEDGE*

**5.** An approved competency-based modular IR ( A ) course *shall comprise* *at least* ***80***  *hours* of theoretical knowledge instruction. The theoretical knowledge course may contain computer-based training and e-learning elements. A minimum amount of classroom teaching as required by ORA. ATO. 305 has to be provided.

 *FLYING TRAINING*

**6.** The method of attaining an IR ( A ) following this modular course is competency-based. However, the minimum requirements below shall be completed by the applicant. Additional training may be required to reach required competencies.

a ) A single-engine competency-based modular IR ( A ) course *shall include at least* ***40*** *hours* of instrument time under instruction, of *which up to* ***10*** *hours* may be instrument ground time in an FNPT I, or *up to* ***25*** *hours in an* FFS or FNPT II. A *maximum of* ***5*** *hours* of FNPT II or FFS instrument ground time may be conducted in an FNPT I.

( i ) when the applicant has :

(A) completed instrument flight instruction provided by an IRI ( A ) or an FI ( A ) holding the privilege to provide training for the IR ; *or*

(B) prior flight time under IFR as PIC on aeroplanes, under a rating providing the privileges to fly under IFR and in IMC these hours may be credited towards the 40 hours above up to maximum of 30 hours ;

( ii ) when the applicant has prior instrument flight time under instruction other than specified in point *( a )( i ),* these hours may be credited towards the required 40 hours up to a *maximum of* ***15*** *hours* ;

( iii ) in any case, the flying training shall include *at least* ***10***  *hours* of instrument flight time under instruction in an aeroplane at an ATO ;

( iv ) the total amount of dual instrument instruction *shall not be less than* ***25***  *hours*.

b ) A multi-engine competency-based modular IR ( A ) course *shall include at least* ***45*** *hours* instrument time under instruction, of which *up to* ***10***  *hours* may be instrument ground time in an FNPT I, or *up to* ***30*** *hours* in an FFS or FNPT II. A *maximum of* ***5*** *hours* of FNPT II or FFS instrument ground time may be conducted in an FNPT I.

( i ) when the applicant has :

(A) completed instrument flight instruction provided by an IRI ( A ) or an FI ( A ) holding the privilege to provide training for the IR ; *or*

(B) prior flight time under IFR as PIC on aeroplanes, under a rating giving the privileges to fly under IFR and in IMC these hours *may be credited towards the* ***45*** *hours* above *up to a maximum of* ***35*** *hours.*

( ii ) when the applicant has prior instrument flight time under instruction other than specified in point ( b )( i ), these hours may be credited towards the required 45 hours up to a maximum of 15 hours ;

( iii ) in any case, the flying training *shall include at least* ***10***  *hours* of instrument flight time under instruction in a multi-engine aeroplane at an ATO ;

( iv ) the total amount of dual instrument instruction *shall not be less than* ***25*** *hours*, of which *at least* ***15***  *hours* shall be completed in a multi-engine aeroplane.

c ) To determine the amount of hours credited and to establish the training needs, the applicant shall complete a pre-entry assessment at an ATO ;

d ) The completion of the instrument flight instruction provided by an IRI ( A ) or FI ( A ) in accordance with point ( a )( i ) or ( b )( i ) shall be documented in a specific training record and signed by the instructor.

**7.** The flight instruction for the competency-based modular IR ( A ) shall comprise :

a ) procedures and maneuvers for basic instrument flight covering at least :

( i ) basic instrument flight without external visual cues ;

( ii ) horizontal flight ;

( iii ) climbing ;

( iv ) descent ;

( v ) turns in level flight, climbing and descent ;

( vi ) instrument pattern ;

( vii ) steep turn ;

( viii ) radio navigation ;

( ix ) recovery from unusual attitudes ;

( x ) limited panel ; *and*

( xi ) recognition and recovery from incipient and full stall.

b ) Pre - flight procedures for IFR flights, including the use of the flight manual and appropriate air traffic services documents for the preparation of an IFR flight plan ;

c ) Procedure and maneuvers for IFR operation under normal, abnormal, and emergency conditions covering at least :

( i ) transition from visual to instrument flight on take-off ;

( ii ) standard instrument departures and arrivals ;

( iii ) en - route IFR procedures ;

( iv ) holding procedures ;

( v ) instrument approaches to specified minima ;

( vi ) missed approach procedures ; *and*

( vii ) landings from instrument approaches, including circling.

d ) in-flight maneuvers and particular flight characteristics ;

e ) if required, operation of a multi-engine aeroplane in the above exercises, including :

( i ) operation of the aeroplane solely by reference to instruments with one engine simulated inoperative ;

( ii ) engine shutdown and restart *( to be carried out at a safe altitude unless carried out in an FFS or FNPT II ).*

**8.** Applicants for the competency-based modular IR ( A ) holding a Part - FCL PPL or CPL and a valid IR ( A ) issued in compliance with the requirements of Annex 1 to the Chicago Convention by a third country may be credited in full towards the training course mentioned in Paragraph 4. In order to be issued the IR ( A ), the applicant shall :

a ) successfully complete the skill test for the IR ( A ) in accordance with Appendix 7 ;

b ) demonstrate to the examiner during the skill test that he / she has acquired an adequate level of theoretical knowledge of air law, meteorology and flight planning and performance ( IR ) ; *and*

c ) have a minimum experience of *at least* ***50*** *hours* of flight time under IFR as PIC on aeroplanes.

 *PRE - ENTRY ASSESSMENT*

**9.** The content and duration of the pre-entry assessment shall be determined by the ATO based on the prior instrument experience of the applicant.

 *MULTI - ENGINE*

**10.** The holder of a single-engine IR ( A ) who also holds a multi-engine class or type rating wishing to obtain a multi-engine IR ( A ) for the first time shall complete a course at an ATO comprising *at least* ***5***  *hours* instrument time under instruction in multi-engine aeroplanes, of *which* ***3***  *hours may* be in an FFS or FNPT II and shall pass a skill test.

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 ***B.*** ***IR ( H ) — Modular Flying Training Course***

**1.** The aim of the IR ( H ) modular flying training course is to train pilots to the level of proficiency necessary to operate helicopters under IFR and in IMC.

**2.** An applicant for a modular IR ( H ) course shall be the holder of a PPL ( H ), or a CPL ( H ) or an ATPL ( H ). Prior to commencing the aircraft instruction phase of the IR ( H ) course, the applicant shall be the holder of the helicopter type rating used for the IR ( H ) skill test, or have completed approved type rating training on that type. The applicant shall hold a certificate of satisfactory completion of MCC if the skill test is to be conducted in Multi- Pilot conditions.

**3.** An applicant wishing to undertake a modular IR ( H ) course shall be required to complete all the instructional stages in one continuous approved course of training.

**4.** The course of theoretical instruction shall be completed *within* ***18*** *months*. The flight instruction and the skill test shall be completed within the period of validity of the pass in the theoretical examinations.

**5.** The course shall comprise :

*a )* theoretical knowledge instruction to the IR knowledge level ;

b ) instrument flight instruction.

 **THEORETICAL KNOWLEDGE**

**6.** An approved modular IR ( H ) course shall comprise *at least* ***150*** *hours of instruction*.

 **FLYING TRAINING**

**7.** A ***single - engine*** IR ( H ) course shall comprise *at least* ***50*** *hours instrument time under instruction*, of which :

***a )*** up to 20 hours may be instrument ground time in an FNPT I ( H ) or ( A ). These 20 hours instruction time in FNPT I ( H ) or ( A ) may be substituted by 20 hours instruction time for IR ( H ) in an aeroplane, approved for this course ; *or*

 ***b )*** up to 35 hours may be instrument ground time in a helicopter FTD 2/3, FNPT II/III or FFS. The instrument flight instruction shall include at least 10 hours in an IFR-certificated helicopter.

**8.** A multi-engine IR ( H ) course shall comprise at least 55 hours instrument time under instruction of which;

 ***a )*** up to 20 hours may be instrument ground time in an FNPT I ( H ) or ( A ). These 20 hours instruction time in FNPT I ( H ) or ( A ) may be substituted by 20 hours instruction time for IR ( H ) in an aeroplane, approved for this course ; *or*

 ***b )*** up to 40 hours may be instrument ground time in a helicopter FTD 2 / 3, FNPT II / III or FFS.

 The instrument flight instruction shall include at least 10 hours in an IFR-certificated

 multi - engine helicopter.

**9. 1.** Holders of an ATPL (H) shall have the theoretical knowledge instruction hours reduced by 50 hours.

**9 .2.** The holder of an IR ( A ) may have the amount of training required *reduced to* ***10*** *hours.*

**9 .3.** The holder of a PPL ( H ) with a helicopter night rating or a CPL( H ) may have the total amount of instrument time under instruction required reduced *by* ***5*** *hours.*

**10.** The flying exercises up to the IR(H) skill test shall comprise :

***a )*** pre-flight procedures for IFR flights, including the use of the flight manual and appropriate air traffic services documents in the preparation of an IFR flight plan;

***b )*** procedure and maneuvers for IFR operation under normal, abnormal and emergency conditions covering at least :

--- transition from visual to instrument flight on takeoff ;

--- standard instrument departures and arrivals ;

--- en - route IFR procedures ;

--- holding procedures ;

--- instrument approaches to specified minima ;

--- missed approach procedures ;

--- landings from instrument approaches, including circling ;

***c )*** in - flight maneuvers and particular flight characteristics ;

***d )*** if required, operation of a multi-engine helicopter in the above exercises, including operation of the helicopter solely by reference to instruments with one engine simulated inoperative and engine shutdown and restart .

 *( the latter exercise to be carried out in an FFS or FNPT II or FTD 2 / 3 ).*

 ***C.******IR ( As ) — Modular Flying Training Course***

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