



Contact



Date

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Appendix

A Theoretical training
compliance list

B Training course compliance
sheet

C Academics to be trained
during ATPL br dge course for
ATPL(A)

*Please quote date, our
reference and subject when
replying.*

RNLAF Credit report Jet

PPL(A) or CPL(A) IR(A)-SE

1 Introduction

Due to new regulations introduced for civilian flight crew licensing, the AIC-B 16/04 policy between Defence and the civilian aviation authority for crediting a civilian license became invalid. To obtain the credits again for a civilian license, the military service checked the obtained knowledge, experience and skills gained in military services against the new civilian regulation. Credit for pilot licences obtained during military service is regulated by the civilian regulation in article 10 of the European;

COMMISSION REGULATION No 1178/2011
of 3 November 2011.

Up to

COMMISSION REGULATION 2016/539

The knowledge, experience and skill gained in military service shall be given credit for the purposes of the relevant FCL requirements in accordance with the elements of a credit report established by the Member State in consultation with the Agency. This report describes the Credit report for jet pilots of the Royal Netherlands Air force to obtain the civilian PPL(A), CPL(A)/ IR. The credit report is set up according article 10 of the EC no 1178/2011 which covers the following items:

- Military requirements for issuing a Military Pilot License (MPL);
- The scope of the privileges of the Military Pilot License holder;
- Credits to be given;
- Limitations to be included on the Part-FCL licences;
- Additional licenses/certificates;
- Additional requirements to request ATPL(A);
- Copies of all documents to be sent in for military to civilian conversion.

The validity of the credit report in relation to the EASA and military regulation is set on 3 years. IL&T will extend the validity each time with three years when the theoretical and practical training still meets the EASA requirement.

To maintain compliant with the EASA regulations, every change in EASA and military regulation on training need to be checked if it affects this credit report. For EASA changes, the MLA and the ATO who is giving the theoretical course

inform the Defence organisation on the change, and the Defence organisation will inform MLA and the ATO when changes in military requirements are foreseen. If necessary the credit report will be amended to maintain in compliance with EASA.

This credit report is based on the Part-FCL AMC/GM amendment 4, and the referenced documents from the RNLAF.

An application for the conversion Military to Civilian license can only be done once. All civilian licenses requested by military pilots before 8 April 2013, which are currently still within the defence organisation are required to comply with this credit report.

When converted to civilian all other certificates or licenses are according EASA regulations, except when the civilian license is necessary for additional training within the defence organisation. Only in this case a special arrangement is created between the RNLAF and IL&T.

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2 Military requirements for issuing a Military Pilot License

2.1 Total overview military pilot training course

To obtain a Military Pilot License, the military student needs to pass successfully multiple flight training courses. When the Military Pilot License is received, the pilot needs to follow additional courses to become a fully mission capable flight crewmember.

This chapter describes the national requirements of which the military licences, ratings, certificates, authorisations and/or qualifications were issued.

The table below gives an overview of the courses required for the military pilot to the standard of limited combat ready.

In the next paragraphs the military training program is described through Military Pilot License Theoretical Knowledge, initial training fixed wing, Joint Jet Pilot Training T6A, Joint Jet Pilot Training T38C, Introduction to Fighter Fundamentals and F-16 Initial Qualification training for jet pilots. See table below for pilot specific courses:

| Course | location |
|--|-----------------|
| Military Pilot License Theoretical Knowledge (MPL TK) | NL |
| Elementaire Militaire Vlieg Opleiding (EMVO) | NL |
| T-6A Euro-NATO Joint Jet Pilot Training | USA |
| T-38C Euro-NATO Joint Jet Pilot Training | USA |
| T-38C Euro-NATO Joint Jet Introduction to Fighter Fundamentals | USA |
| F-16 Initial Qualification Training | USA |

2.2 Military Pilot License Theoretical Knowledge

The aim of the theoretical knowledge training is to teach the student pilot the basic skills (theoretical) to fly safely in VFR and IFR conditions. The theoretical knowledge training is according Subpart Y 1 – Theoretical Knowledge for a Military Pilot License of the Military Aviation Requirement Flight Crew Licensing (MAR-FCL 1&2) with Instrument Rating, See reference 1. The pre-requirement for the military Pilot License Theoretical Knowledge course is the

ALO KOOV KLU Nieuwe stijl (PS 032301) or ALO 1 KLU (PS 029624) or OFF OPL LANG MODEL (PS 026034) : Military Officer training

The training consists of theoretical training to a level compared to the EASA ATPL level with additional military requirements in the following items:

- Air law
- Airframes, systems, powerplant
- Instrumentation
- Flight performance and planning
- Human performance

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- Meteorology
- General Navigation
- Radio Navigation
- Operational Procedures
- Aerodynamics
- Flight Mechanics
- Communication

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After completion of the theoretical course, the student pilot has obtained the following hours in theoretical training:

Course length : 19 weeks
Academic flight training : 567 hrs

For more in depth information see
Reference 2: Military Pilot License theoretical knowledge

2.3 Initial training

The aim of the course is to teach the student pilot the basic skill (theoretical and practical) to fly safely in VFR and IFR conditions in a single engine turbine airplane. The pre-requirements for the initial training "Elementaire Militaire Vlieg Opleiding" (EMVO) are;

- 1 Military Pilot License Theoretical Knowledge (034239)
- 2 G-Awareness Centrifuge Training(028135)
- 3 Initiële Hoogte Indoctrinatie (017177)
- 4 RadioTelephonie (RT) (026208)
- 5 Technische cursus PC-7 (034209)
- 6 Initial Survival Equipment Course PC-7 (024574)

The training consists of theoretical and practical training in accordance to the Military Aviation Regulations Flight Crew License (MAR-FCL). The MAR-FCL is based on the civilian Part FCL with additional military requirements. After graduation of the EMVO, the student pilot has obtained the following knowledge in pilot training:

Course length : 12 weeks
Academic flight training : 100 hrs
Flight training : 40 hrs

For more in depth information see
Reference 3: EMVO training manual

2.4 T-6A Euro-NATO Joint Jet Pilot Training

The aim of the course is to prepare student pilots for the ENJJPT Advanced Phase and for future responsibilities as military pilots and officers. This training includes the following:

- a. Flying training to teach the principles and techniques used in operating an advanced aircraft.
- b. Integrated ground training to supplement and reinforce flying training.
- c. Officer development training as required by the Air Force of each participating country.

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Entry Prerequisites — Qualified for entry by source country.

Status Upon Completion — Upon completion of this course, student pilots receive AETC Form 1122, "Summary Performance Report," and proceed to the next designated phase of flight training.

The training consists of theoretical and practical training. After graduation of the ENJJPT, the student pilot has obtained the following knowledge in pilot training:

| | |
|--------------------------|-------------|
| Course length | : 27 weeks |
| Academic flight training | : 340,3 hrs |
| Flight training | : 155,6 hrs |

For more in depth information see
Reference 4: P-V4A-N(T-6) Apr 13

2.5 T-38C Euro-NATO Joint Jet pilot Training (track 3A)

The aim of the course is to qualify student pilots of participating NATO countries to perform the duties and assume the responsibilities of a pilot. This includes:

- a. Flying training of sufficient scope and quality to attain the desired understanding of the principles and proficiency in the techniques of flying high-speed jet fighter-type aircraft.
- b. Ground training of sufficient scope to augment and facilitate the flying training.
- c. Officer training as required by the Air Force of each participating country.

Entry Prerequisites — Qualified for entry by source country.

Status Upon Graduation — Graduates of this course are awarded an aeronautical diploma, presented USAF pilot wings, RNLAf wings, and granted the aeronautical rating of pilot of their respective services.

The training consists of theoretical and practical training. After graduation of the T-38C ENJJPT 3A track, the student pilot has obtained the following knowledge in pilot training:

| | |
|--------------------------|-------------|
| Course length | : 20 weeks |
| Academic flight training | : 123,4 hrs |
| Flight training | : 136,5 hrs |

For more in depth information see
Reference 5: AETC P-V4A-N-3 (T-38C) Apr 13

2.6 T-38C Euro-NATO Joint Jet Introduction to Fighter Fundamentals (track B)

The objective is to graduate pilots with a basic understanding of fighter fundamentals. Emphasize developing wingman fundamentals with solid Cockpit / Crew Resource Management skills.

This course is the transition course between Euro-NATO Joint Jet Pilot Training (ENJJPT) and formal fighter training units (FTUs). The Track B (dual role) with ACM course provides specialized training tracks based on follow-on training assignments for F-16.

Entry Prerequisites- Pilots must be graduates of ENJJPT T-38C Track 3A

Status Upon Completion — Graduates are qualified to attend USAF or NATO fighter formal training courses.

The training consists of theoretical and practical training. After graduation of the T-38C IFF track B, the student pilot has obtained the following knowledge in pilot training:

| | |
|--------------------------|------------|
| Course length | : 9 weeks |
| Academic flight training | : 82,5 hrs |
| Flight training | : 53,1 hrs |

For more in depth information see
Reference 6: AETC BF-V5A-L Apr 13 IFF

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2.7 F-16 Initial Qualification Training

The objective is to qualify pilots with a F-16A (MLU) type rating with IR. In addition the basic proficiency in Air-to-Air and Air-to-Surface mission tasks are trained.

Entry Prerequisites- Pilots must be graduates of T38C IFF track B course

Status Upon Completion — Graduates can fulfil all initial Qualification Training requirements with an instrument rating.

The training consists of theoretical and practical training. After graduation of the F-16 IQT, the student pilot has obtained the following knowledge in pilot training:

Course length : 28 weeks
 Academic flight training : 207 hrs
 Flight training : 233,4 hrs

For more in depth information see
 Reference 7: IQT syllabus 6hzu final_tcm4-499588-1

After successfully passed the IQT, the pilot will than receive his Military FCL. For a total overview in flight hours and academics for the F16;

| | | F16 |
|-----------------|--------------------|---------------|
| EMVO | Theoretical | 703 |
| | practical | 40 |
| T-6 ENJJPT | Theoretical | 340,3 |
| | practical | 155,6 |
| T38C ENJJPT | Theoretical | 123,4 |
| | practical | 136,5 |
| T38C ENJJPT IFF | Theoretical | 82,5 |
| | practical | 53,1 |
| F16 IQT | Theoretical | 207 |
| | practical | 233,4 |
| TOTAL | Theoretical | 1456,2 |
| | practical | 618,6 |

Note: practical flight training is including flight training devices, simulators and practical flights. For more information see referenced courses.

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3 The scope of the privileges of the Military Pilot License holder

When the pilot successfully completes all the courses, he/she will be assigned to a squadron as a limited combat ready pilot in command. The scope and privileges are for all F16 pilots a Military Pilot license with type rating on the F16 for VFR day, IFR and night (aided/un-aided).

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4 Credits to be given

The knowledge, experience and skill gained during flight training up to limited combat ready status in the military is compared to the civilian standards regulation 1178/2011.

Credits to be given, depending actual flight hours:

PPL(A)¹
or
CPL(A)/IR(A)-SE,PBN (frozen ATPL theoretical)

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The following Part- FCL regulations are used to compare the military training versus civilian requirement and training for the credits to be given for:

FCL.055 Language proficiency

FCL.300 CPL — Minimum age

FCL.315 CPL — Training course

FCL.515 ATPL— Theoretical knowledge examinations

Appendix 3 A. ATP integrated course — Aeroplanes

FCL.510.A ATPL (practical) see Chapter 6.

4.1 PPL(A) experience requirements and crediting

FCL.210.A states:

(a) Applicants for a PPL(A) shall have completed at least 45 hours of flight instruction in aeroplanes, 5 of which may have been completed in an FSTD, including at least:

- (1) 25 hours of dual flight instruction; and
- (2) 10 hours of supervised solo flight time, including at least 5 hours of solo cross-country flight time with at least 1 cross-country flight of at least 270 km (150 NM), during which full stop landings at 2 aerodromes different from the aerodrome of departure shall be made.

When a student passed the EMVO, T6 ENJJPT and the military bridge course, he/she has at least 114,1 hours instruction, 8,1 hours solo with 23,9 navigation were during out and back(s) multiple different airports are trained. Point B and C and D of FCL210.A are not relevant. The theoretical level for the student is based on the ATPL fixed wing, when the bridge course has been passed!

4.2 Language proficiency

The RNLAf has a letter of agreement with the NL-CAA that pilots with a Military Pilot License have a LPE level 4 equivalence (reference 8: Verzoek gelijkstelling LPE-4 voor militaire vliegers).

¹ PPL(A) can be requested when successfully passed the EMVO, 6-ENJJPT and the military bridge course.

4.3 Minimum age

FCL.300 CPL states: An applicant for a CPL shall be at least 18 years of age. For military pilots the MAR-FCL 1&2.215 _Military Pilot License- Pre-requisites states: 1) be at least 18 years of age. The military minimum age criterion is compliant with the civilian requirement of FCL.300 CPL.

4.4 Theoretical knowledge examinations

FCL 515 ATPL states that an applicant for a CPL/ATPL shall demonstrate a level of knowledge appropriate to the privileges granted in the following subjects:

- Air Law,
- Aircraft General Knowledge — Airframe/Systems/Powerplant,
- Aircraft General Knowledge — Instrumentation,
- Mass and Balance,
- Performance,
- Flight Planning and Monitoring,
- Human Performance,
- Meteorology,
- General Navigation,
- Radio Navigation,
- Operational Procedures,
- Principles of Flight,
- Visual Flight Rules (VFR) Communications.
- Instrument Flight Rules (IFR) Communications.

The pass mark for all civilian exams must be at least 75%.

For comparison between the military and civilian theoretical training the following acceptable means of compliance was used: AMC1 FCL.310; FCL.515 (b); FCL.615 (b). The MAR_FCL 1&2.920 Theoretical knowledge Training and examination states the pass mark of 75% in the following subjects:

- AIR LAW AND ATC PROCEDURES
- AIRCRAFT GENERAL KNOWLEDGE AIRFRAME
- AND SYSTEMS, ELECTRICS, POWERPLANT, EMERGENCY EQUIPMENT
- AIRCRAFT GENERAL KNOWLEDGE INSTRUMENTATION
- FLIGHT PERFORMANCE AND PLANNING
- MASS AND BALANCE – AIRPLANES/HELICOPTERS
- PERFORMANCE – AIRPLANES
- FLIGHT PLANNING AND FLIGHT MONITORING
- PERFORMANCE – HELICOPTERS
- HUMAN PERFORMANCE AND LIMITATIONS
- METEOROLOGY
- NAVIGATION
- GENERAL NAVIGATION
- RADIO NAVIGATION
- OPERATIONAL PROCEDURES
- PRINCIPLES OF FLIGHT
- PRINCIPLES OF FLIGHT – AIRPLANE
- COMMUNICATIONS
- VFR COMMUNICATIONS
- IFR COMMUNICATIONS

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The result of the comparison of all items of FCL 515 ATPL to the Military Theoretical Knowledge Training course is presented in reference 12: Compliance checklist (amendment 4, 18 april 2018)..

When the bridge course presented in Appendix A: Academics to be trained for ATPL(A) is completed, the military academic flight training fulfils the theoretical requirement of FCL.515 ATPL (A).

4.5 Training course

The military flight training courses are compared to:

AMC1 to Appendix 3 Training courses for the issue of FCL.315 CPL/IR or FCL.515 ATPL/IR.

The results are presented in appendix B: Training course compliance sheet.

The military training course is compliant for FCL.315 CPL/IR training requirement with some alternative compliance methods.

4.6 PBN compliance

For civilian Instrument ratings as of Aug 2018 a Performance based Navigational (PBN) training is required. The RNLAf operates according the PBN principles. The requirement for PBN and the RNLAf compliance to this training is presented in appendix C PBN compliance sheet.

4.7 Conclusion

The military training course up to "limited combat ready" fulfils the civilian requirement of the FCL.300.CPL, FCL.515 ATPL(A) theoretical knowledge and FCL 315 CPL(A) with IR rating when the military bridge course is passed.

The total academic hours required for ATPL(A) is 750 hrs, the military pilot received 1456,2 hours of academic flight training.

The total flying hours required for CPL(A)/IR is 180 hrs and for ATPL(A)/IR it is 195 hrs. The military pilot (jet) will have minimum 618,6 hours.

The credits for a civilian PPL(A) license can be requested after successfully passed the EMVO, T-6 ENJJPT, and the military bridge course with a valid (MPL) FCL license. However an application can only be done once!

The credits for a civilian CPL(A)/IR license can be requested maximum one year after leaving the military services!

An overview of credits are presented in the table below.

| | CPL(A)/IR | Aerobatic rating | TP cat 1 | Theoretical ATPL(A) | PPL(A) |
|---------------------------|-----------|------------------|----------|---------------------|--------|
| EMVO | x | x | x | x | x |
| T-6 ENJJPT | x | x | x | x | x |
| T38C ENJJPT | x | x | x | x | |
| T38C ENJJPT IFF | x | x | x | x | |
| F16 IQT | x | x | x | x | |
| Test pilot school | | | x | | |
| Military bridge course FW | x | x | x | x | x |

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5 Limitations to be included on the Part-FCL licences

Within the scope of PPL(A) or CPL(A) operation, no limits need to be included.

When IR is requested, it must be valid. If IR rating is expired within 7 years, the requirement is recurrence training at an ATO and an IR profcheck to regain the IR.

Within the scope of ATPL(A), the practical experiences are unsatisfactory without additional flying experience.

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6 Additional licenses/certificates

In addition to the aircrew license (PPL(A),CPL(A)), the next certificates comply to the EASA regulations or compliant to these regulations. These additional trainings are performed under EASA regulations:

- 1) Test pilot, EASA accredited schools (ETPS,EPNR,USNTP,NTPS or other certified Test pilot ATO's)

6.1 Additional aerobatic rating when PPL(A) or CPL(A) is requested

During the training courses EMVO/AETC P-V4A-N-3(T-38C), the student fulfils the requirements for aerobatic training according to AMC1 FCL.800 Aerobatic training

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| THEORETICAL KNOWLEDGE AND FLYING TRAINING | FIXED WING |
|--|---|
| (a) The aim of the aerobatic training is to qualify licence holders to perform aerobatic manoeuvres. | AETC P-V4A-N-3(T-38C) |
| (b) The ATO should issue a certificate of satisfactory completion of the instruction to licence endorsement. | Course completion EMVO/AETC P-V4A-N-3T(T-38C) |
| (c) Theoretical knowledge | EMVO/AETC P-V4A-N-3(T-38C) |
| The theoretical knowledge syllabus should cover the revision or explanation of: | |
| (1) human factors and body limitation: | X |
| (i) spatial disorientation; | X |
| (ii) airsickness; | X |
| (iii) body stress and G-forces, positive and negative; | X |
| (iv) effects of grey- and blackouts. | X |
| (2) technical subjects: | |
| (i) legislation affecting aerobatic flying to include environmental and noise subjects; | X |
| (ii) principles of aerodynamics to include slow flight, stalls and spins, flat and inverted; | X |
| (iii) general airframe and engine limitations (if applicable). | X |
| (3) limitations applicable to the specific aircraft category (and type): | X |
| (i) air speed limitations (aeroplane, helicopter, TMG and sailplane, as applicable); | X |
| (ii) symmetric load factors (type-related, as applicable); | X |
| (iii) rolling Gs (type-related, as applicable). | X |
| (4) aerobatic manoeuvres and recovery: | X |
| (i) entry parameters; | X |
| (ii) planning systems and sequencing of manoeuvres; | X |
| (iii) rolling manoeuvres; | X |
| (iv) looping manoeuvres; | X |
| (v) combination manoeuvres; | X |
| (vi) entry and recovery from developed spins, flat, | X |

| | |
|---|-----------|
| accelerated and inverted. | |
| (5) emergency procedures: | X |
| (i) recovery from unusual attitudes; | X |
| (ii) drills to include the use of parachutes (if worn) and aircraft abandonment. | X |
| (d) Flying training | |
| The exercises of the aerobatic flying training syllabus should be repeated as necessary until the applicant achieves a safe and competent standard. Having completed the flight training, the student pilot should be able to perform a solo flight containing a sequence of aerobatic manoeuvres. The dual training and the supervised solo training flights should be tailored to the category of aircraft and limited to the permitted manoeuvres of that type of aircraft. The exercises should comprise at least the following practical training items: | |
| (1) confidence manoeuvres and recoveries: | |
| (i) slow flights and stalls; | x |
| (ii) steep turns; | x |
| (iii) side slips; | x |
| (iv) engine restart in-flight (if applicable); | simulator |
| (v) spins and recovery; | x |
| (vi) recovery from spiral dives; | x |
| (vii) recovery from unusual attitudes. | x |
| (2) aerobatic manoeuvres: | x |
| (i) Chandelle; | x |
| (ii) Lazy Eight; | x |
| (iii) rolls; | x |
| (iv) loops; | x |
| (v) inverted flight; | x |
| (vi) Hammerhead turn; | x |
| (vii) Immelmann. | x |

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7 Copies of all documents

To obtain the civilian license, the following documents need to be send to KIWA;

Request form CPL(A)/IR

(valid) Passport copy

Flight Logbook

Current civilian flight medical

Copy of Military Pilot License

Copy list of functions which indicates the date when placed on an operational squadron.

Checklist for sending in application EASA FCL

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| Document | Remark |
|--|---|
| KIWA request form PPL(A)/CPL(A)/ATPL(A) | Download application on: https://www.kiwaregister.nl/aanvraagformulieren_vliegend_personeel/ |
| Passport copy | Valid passport |
| Flight logbook | PDF of flight logbook (OMIS) To check flight experience and IR prof check |
| Copy Flight medical | Civilian (from CML) |
| Copy military Pilot license | |
| Copy of functions | PDF of personal file (peoplesoft) To check training curriculum. |
| Military bridge course certificate FW | Check for successful completion of the bridge course. |

Reference 1: MAR FCL Aeroplanes Helicopters issue 2.0 01 December 2013
Reference 2: MPL theoretical knowledge
Reference 3: EMVO training manual
Reference 4: P-V4A-N(T-6) Apr 13
Reference 5: AETC P-V4A-N-3 (T-38C) Apr 13
Reference 6: AETC BF-V5A-L Apr 13 IFF
Reference 7: IQT syllabus 6hzu final_tcm4-499588-1
Reference 8: Verzoek gelijkstelling LPE-4 voor militaire vliegers ILT-2012/18636
CLSK 2012/015641
Reference 12: Compliance checklist (amendment 4, 18 april 2018).

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Appendix: A Academics to be trained during ATPL bridge course for ATPL(A)

Appendix: B Training course compliance sheet

Appendix: C PBN compliance sheet

Appendix A Academics to be trained for ATPL(A)

| | |
|--------------|---|
| 010.01.02.01 | The International Air Services Agreement |
| 010.01.02.02 | The International Air Transport Agreement |
| 010.01.02.03 | Suppression of unlawful acts against safety of civil aviation |
| 010.01.02.05 | International Private Law |
| 010.01.03.00 | World Organisation |
| 010.01.03.01 | The International Air Transport Association (IATA) |
| 010.04.01.01 | Differences between ICAO Annex 1 and JAR-FCL |
| 010.04.02.04 | Airline Transport Pilot Licence - ATPL |
| 010.07.02.03 | ATS system capacity and Air Traffic Flow Management |
| 010.10.02.00 | Entry and Departure of aircraft |
| 010.10.02.01 | General Declaration |
| 010.10.02.02 | Entry and departure of crew |
| 010.10.02.03 | Entry and departure of passengers and baggage |
| 010.10.02.04 | Entry and departure of cargo |
| 010.12.01.00 | Essential definitions in ICAO Annex 17 |
| 010.12.01.01 | Essential definitions in ICAO Annex 17 |
| 010.12.02.00 | General principles |
| 010.12.02.01 | General principles — Objectives of security |
| 010.12.03.00 | Organisation |
| 010.12.04.00 | Preventive security measures |
| 010.12.04.01 | Preventive security measures |
| 010.12.05.00 | Management of response to Acts of Unlawful Interference |
| 010.12.05.01 | Management of response to Acts of Unlawful Interference |
| 010.12.06.00 | Operators security programme |
| 010.12.06.01 | Operators' security programme — Principles |
| 010.12.07.00 | Security procedures in other documents |
| 010.12.07.01 | ICAO Annex 2, Attachment B |
| 010.12.07.02 | ICAO Annex 6, Chapter 13, Security |
| 010.12.07.03 | ICAO Annex 14, Chapter 3, Physical characteristics |
| 010.12.07.04 | ICAO Document 4444 |
| 021.06.01.01 | Piston engine air supply |
| 021.08.01.00 | Piston engine |

| | |
|--------------|--|
| 021.08.01.01 | Fuel: Types, characteristics, limitations |
| 021.08.01.02 | Design, operation, system components, indications |
| 021.10.01.00 | General |
| 021.10.01.01 | Types of internal combustion engine |
| 021.10.01.02 | Engine: design, operation, components and materials |
| 021.10.02.00 | Fuel |
| 021.10.02.01 | Types, grades, characteristics, limitations |
| 021.10.03.00 | Engine fuel pumps |
| 021.10.03.01 | Engine-driven fuel pump |
| 021.10.04.00 | Carburettor/Injection system |
| 021.10.04.01 | Carburettor: design, operation, degraded modes, indications and warnings |
| 021.10.04.02 | Injection: design, operation, degraded modes, indications and warnings |
| 021.10.04.03 | Icing |
| 021.10.05.00 | Cooling systems |
| 021.10.05.01 | Design, operation, indications and warnings |
| 021.10.06.00 | Lubrication systems |
| 021.10.06.01 | Lubricants: characteristics, limitations |
| 021.10.06.02 | Design, operation, indications and warnings |
| 021.10.07.00 | Ignition circuits |
| 021.10.07.01 | Design, operation |
| 021.10.08.00 | Mixture |
| 021.10.08.01 | Definition, characteristic mixtures, control instruments, associated control levers, indications |
| 021.10.10.00 | Performance and engine handling |
| 021.10.10.01 | Performance |
| 021.10.10.02 | Engine handling |
| 022.01.08.00 | Synchroscope |
| 022.01.08.01 | Purpose, operating principle, display |
| 022.06.04.00 | Aeroplane: Flight mode annunciator |
| 022.06.04.01 | Purpose, modes, display scenarios |
| 022.06.05.00 | Autoland |
| 022.06.05.01 | Design and operation |
| 022.09.01.00 | Autothrust system |

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| 022.09.01.01 | Purpose, operation, overcompensation, speed control |
| 022.13.06.00 | Electronic Flight Bag (EFB) |
| 022.13.06.01 | Purpose, certification, malfunctions |
| 022.14.01.00 | Cockpit Voice Recorder (CVR) |
| 022.14.01.01 | Purpose, components, parameters |
| 022.14.02.00 | Flight Data Recorder (FDR) |
| 022.14.02.01 | Purpose, components, parameters |
| 031.06.01.00 | Types of cargo |
| 031.06.01.01 | Types of cargo (general aspects) |
| 031.06.02.00 | Floor area load and running load limitations |
| 031.06.02.01 | Floor area load and running load limitations in cargo compartments |
| 031.06.03.00 | Securing of load |
| 031.06.03.01 | Securement of load (reasons and methods) |
| 033.05.02.00 | Repetitive flight plan |
| 033.05.02.01 | Repetitive flight plan |
| 040.02.01.03 | High altitude environment |
| 050.09.07.00 | Stratospheric conditions |
| 050.09.07.01 | Influence on aircraft performance |
| 062.02.06.00 | MLS |
| 062.02.06.01 | Principles |
| 062.02.06.02 | Presentation and interpretation |
| 062.02.06.03 | Coverage and range |
| 062.02.06.04 | |
| 071.01.02.10 | Cabin crew/Crew members other than flight crew |
| 071.01.03.00 | Long range flights |
| 071.01.03.01 | Flight management |
| 071.01.03.02 | Transoceanic and polar flights (ICAO Doc 7030 'Regional Supplementary Procedures — North Atlantic Operations and Airspace Manual') |
| 071.01.03.03 | North Atlantic High Level Airspace (NAT HLA) |
| 071.01.03.04 | ETOPS |
| 071.02.04.02 | Influence of the flight procedure (departure, cruise, approach) |
| 071.02.04.03 | Influence by the pilot (power setting, low drag) |
| 071.02.05.01 | Carburettor fire |

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| 071.02.09.00 | Security |
| 071.02.09.01 | ICAO Annex 17 and Regulation (EC) No 300/2008 |
| 071.02.09.02 | Use of SSR |
| 071.02.09.03 | Security (Regulation (EC) No 300/2008 and ICAO Annex 17) |
| 071.02.10.03 | Passenger information |
| 071.02.11.00 | Fuel jettisoning |
| 071.02.11.01 | Safety aspects |
| 071.02.11.02 | Requirements |

Appendix B Training course compliance sheet

| CPL/IR integrated course Aeroplane (Subject) | MilPL | Alternative AMC | Remarks |
|---|-----------------------------|---|---|
| Appendix 3 - Training courses for the issue of a CPL and an ATPL | | | |
| The flying training, not including type rating training, shall comprise a total of at least 180 hours, to include all progress tests, of which up to 40 hours for the entire course may be instrument ground time. Within the total of 180 hours, applicants shall complete at least: | 618,6 | | |
| (a) 80 hours of dual instruction, of which up to 40 hours may be instrument ground time; | 280,5 | | |
| (b) 70 hours as PIC, including VFR flight and instrument flight time which may be flown as SPIC. The instrument flight time as SPIC shall only be counted as PIC flight time up to a maximum of 20 hours; | 98,4 | | |
| (c) 50 hours of cross-country flight as PIC, including a VFR cross-country flight of at least 540 km (300 NM), in the course of which full stop landings at two aerodromes different from the aerodrome of departure shall be made; | | 1 year on squadron, this requirement will be met. | |
| (d) 5 hours flight time shall be completed at night, comprising 3 hours of dual instruction, which shall include at least 1 hour of cross-country navigation and 5 solo take-offs and 5 solo full stop landings; and | | 1 year on squadron, this requirement will be met. | |
| (e) 100 hours of instrument time comprising, at least: | 162 | | |
| (1) 20 hours as SPIC; and | 82,9 | | |
| (2) 50 hours of instrument flight instruction, of which up to: | 62,5 | | |
| (i) 25 hours may be instrument ground time in an FNPT I, or | | | |
| (ii) 40 hours may be instrument ground time in an FNPT II, FTD 2 or FFS, of which up to 10 hours may be conducted in an FNPT I. | | | |
| (f) 5 hours to be carried out in an aeroplane certificated for the carriage of at least 4 persons that has a variable pitch propeller and retractable landing gear. | | PC-7 has a variable pitch and retractable landing gear, however only two persons. | Flying time on the PC7 is at least 30 hours |
| SKILL TEST | | | |
| Upon completion of the related flying training the applicant shall take the CPL(A) skill test and the IRskill test on either a multi-engine aeroplane or a single-engine aeroplane. | 4 skill tests are performed | | |

Appendix C PBN compliance sheet

| | ALL | Jet |
|---|------|----------|
| 062 07 00 00 PBN | EMVO | |
| 062 07 01 00 PBN concept (as described in ICAO Doc 9613) | EMVO | |
| 062 07 01 01 PBN principles | EMVO | |
| 062 07 01 02 PBN components | EMVO | |
| 062 07 01 03 PBN scope | EMVO | |
| 062 07 02 00 Navigation specifications | EMVO | |
| 062 07 02 01 RNAV and RNP | EMVO | |
| 062 07 03 00 Use of PBN | EMVO | |
| 062 07 03 01 Airspace planning | EMVO | |
| 062 07 03 02 Approval | EMVO | |
| 062 07 03 03 Specific RNAV and RNP system functions | EMVO | |
| 062 07 03 04 Data processes | EMVO | |
| 062 07 04 00 PBN operations | EMVO | |
| 062 07 04 01 PBN principles | EMVO | |
| 062 07 04 02 On-board performance monitoring and alerting | | AETC P4A |
| 062 07 04 03 Abnormal situations | | AETC P4A |
| 062 07 04 04 Database management | | AETC P4A |
| 062 07 05 00 Requirements of specific RNAV and RNP specifications | | AETC P4A |
| 062 07 05 01 RNAV10 | | AETC P4A |
| 062 07 05 02 RNAV5 | | AETC P4A |
| 062 07 05 03 RNAV/RNP1/2 | | AETC P4A |
| 062 07 05 04 RNP4 | | AETC P4A |

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|--|--|----------|
| 062 07 05 05 RNP APCH | | AETC P4A |
| 062 07 05 06 RNP AR APCH | | AETC P4A |
| 062 07 05 07 A-RNP | | AETC P4A |
| 062 05 04 00 FMS and general terms | | AETC P4A |
| 062 05 04 03 Navigation data base | | AETC P4A |
| 062 05 04 06 Determination of the FMS-position of the aircraft | | AETC P4A |
| 062 06 00 00 GLOBAL NAVIGATION SATELLITE SYSTEMS | EMVO | AETC P4A |
| 062 06 01 00 GPS/GLONASS/GALILEO | EMVO | AETC P4A |
| 062 06 01 01 Principles | EMVO | AETC P4A |
| 062 06 01 02 Operation | | AETC P4A |
| 062 06 01 03 Errors and Factors affecting accuracy | EMVO | |
| 062 06 02 00 Ground, Satellite and Airborne based augmentation systems | EMVO | |
| Practical | ALL | Jet |
| Practical skill test IR(A) PBN | Appendix 3 to MAR-FCL 2.320 Contents of the skill test for the issue and renewal of an IR(A) | |