

Toetsmatrijs PPL Air law + Operational procedures

In deze toetsmatrijs staat wat u moet kunnen en kennen. De toetsmatrijs vormt daarom de basis van de opleiding en het examen.

Opgesteld door: CBR divisie CCV

Categoriecode:	LVPALAW (PPLA, LAPLA) en LVPHFPP (PPLH, LAPLH) en LVOPLAW (OPPLA, OPPLH)	
Toetsvorm:	Digitaal	
Totaal aantal vragen:	PPLA, LAPLA, PPLH, LAPLH: 20 meerkeuzevragen,	OPPLA, OPPLH: 16 meerkeuzevragen
Cesuur:	PPLA, LAPLA, PPLH, LAPLH: 75% (15 van de 20 vragen goed),	OPPLA, OPPLH: 75% (12 van de 16 vragen goed)
Bijzonderheden:	Voor het OPPL(A/H)-examen geldt dat Operational procedures niet wordt getoetst.	

Nr	Eindtermen
010 00 00 00	AIR LAW
010 01 00 00	International law: conventions, agreements and organisations
010 02 00 00	Airworthiness of aircraft, aircraft nationality and registration marks
010 04 00 00	Personnel licensing
010 05 00 00	Rules of the air according to ICAO Annex 2 and SERA
010 06 00 00	Aircraft operations
010 07 00 00	Air Traffic Services (ATS) and Air Traffic Management (ATM)
010 08 00 00	Aeronautical Information Service (AIS)
010 09 00 00	Aerodromes (ICAO Annex 14, Volume I, Aerodrome Design and Operations)
010 11 00 00	Search and Rescue (SAR)
010 12 00 00	Security – Safeguarding International Civil Aviation against Acts of Unlawful interference (ICAO Annex 17)
010 13 00 00	Aircraft accident and incident investigation
p010 14 00 00	PPL: national law
070 00 00 00	Operational procedures
071 01 00 00	General requirements
071 02 00 00	Special operational procedures and hazards (general aspects)

Vastgesteld door:	Technische Commissie Air law + Operational procedures
Beoordeeld door:	Logistiek, Transport en Personenvervoer raad; kamer 3: Luchtvaart <14 september 2018>
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Toelichting

Eindtermen: Dit zijn de hoofdonderwerpen die in het examen voorkomen. Hierin staat 'ruim' omschreven wat er in het examen terug kan komen.

Toetstermen: Dit zijn onderdelen van een eindterm. Hierin staat meer uitgebreid omschreven wat er in het examen terug kan komen.

Tax: Dit is de taxonomiecode van Romiszowski. Deze code geeft aan op welk niveau de vragen over een toetsterm gesteld worden.

F = Feitelijke kennis. De kandidaat kan feiten reproduceren (herkennen of herinneren).

B = Begripsmatige kennis. De kandidaat kan begrippen of principes omschrijven.

R = Reproductieve vaardigheden. De kandidaat kan acties uitvoeren die volgens een vastgelegde procedure verlopen.

P = Productieve vaardigheden. De kandidaat kan acties uitvoeren waarbij hij zijn eigen creativiteit en inzicht nodig heeft.

Eind- en toetstermen		Tax	PPLA	PPLH
010 00 00 00	AIR LAW			
010 01 00 00	International law: conventions, agreements and organisations			
010 01 01 00	The Convention on International Civil Aviation (Chicago) – ICAO Doc 7300/9			
010 01 01 02	Part I - Air Navigation			
(01)	Recall the general contents of relevant parts of the following chapters: <ul style="list-style-type: none"> - general principles and application of the Convention; - flight over territory of Contracting States; - nationality of aircraft; - international standards and recommended practices (SARPs), especially notification of differences and validity of endorsed certificates and licenses. 	F	X	X
(02)	General principles Describe the application of the following terms in civil aviation: <ul style="list-style-type: none"> - territory and high seas. 	B	X	X
(03)	Explain the following terms and how they apply to international air traffic: <ul style="list-style-type: none"> - right of non-scheduled flight (including the two technical freedoms of the air); - landing at customs airports; - Rules of the Air; - search of aircraft. 	B	X	X
010 01 01 03	Part II The International Civil Aviation Organisation (ICAO)			
(01)	Describe the objectives of ICAO.	B	X	X
(03)	Describe the Annexes to the Convention.	B	X	X
010 01 04 00	European organisations			
010 01 04 01	European Aviation Safety Agency (EASA)			
(01)	Describe the objectives of EASA	B	X	X
(p01)	Describe the role of the National Aviation Authorities (NAAs) in relation to EASA.	B	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
010 02 00 00	Airworthiness of aircraft, aircraft nationality and registration marks			
010 02 02 00	Certificate of Airworthiness (CofA)			
010 02 02 01	<i>Certificate of Airworthiness (CofA) - Details</i>			
(01)	State the Issuing Authority of a CofA.	F	X	X
(02)	State the necessity to hold a CofA.	F	X	X
010 02 03 00	Definitions of ICAO Annex 7 – Aircraft Nationality and Registration Marks			
010 02 03 01	<i>ICAO Annex 7 – Definitions</i>			
(01)	Recall the definitions of the following terms: - aircraft; - heavier-than-air aircraft; - State of Registry.	F	X	X
010 02 04 00	Aircraft Nationality, common marks and registration marks to be used			
010 02 04 01	<i>Nationality marks, common marks and registration marks – assignment and location</i> <i>Source: ICAO Annex 7</i>			
(01)	State the location of nationality marks and registration marks.	F	X	X
(02)	Explain who is responsible for assigning registration marks.	B	X	X
010 04 00 00	Personnel licensing			
010 04 02 00	Aircrew Regulation – Annex I (Part FCL)			
010 04 02 01	<i>Definitions</i>			
(01)	Define the following: Category, class and type of aircraft, cross-country, dual instruction time, student pilot-in-command SPIC, night, UDP, private pilot, proficiency check, renewal, revalidation, skill test, solo flight time.	F	X	X
010 04 02 02	<i>Content and structure</i>			
(02)	Explain the requirements to act as a flight crew member of a civil aircraft registered in a Member State, and know the general principles of the licensing system (light aircraft pilot licence (LAPL), private pilot licence (PPL)).	B	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
(03)	List the two factors that are relevant to the exercise of the privileges of a licence.	F	X	X
(06)	Explain the term 'competent authority'.	B	X	X
010 04 02 05	Ratings			
(p01)	State the privileges and validity of a LAPL.	F	X	X
(p02)	State the requirements for a single engine piston (SEP) class rating, its validity and privileges.	F	X	
(02)	State the requirements for type ratings, their validity and privileges.	F		X
010 04 03 00	Aircrew Regulation – Annex IV (Part-MED)			
010 04 03 01	Aircrew Regulation – Annex IV (Part-MED) – Details			
(02)	State the requirements for the issue of a medical certificate.	F	X	X
(03)	Name the class of medical certificate required when exercising the privileges of a LAPL or PPL.	F	X	X
(04)	State the actions to be taken in case of a decrease in medical fitness.	F	X	X
010 05 00 00	Rules of the air according to ICAO Annex 2 and SERA			
010 05 01 00	Overview of ICAO Annex 2 and SERA			
010 05 01 01	ICAO Annex 2 and SERA – Relationship and content			
(01)	Explain the scope and purpose of ICAO Annex 2.	B	X	X
(02)	Explain the main content of SERA.	B	X	X
010 05 02 00	Rules of the Air			
010 05 02 01	Applicability of the Rules of the Air			
(01)	Explain the principle of territorial application of the various Rules of the Air, e.g. ICAO, SERA, national rules.	B	X	X
(02)	Explain the necessity to comply with the Rules of the Air.	B	X	X
(03)	State that the PIC of an aircraft is primarily responsible for the operation of the aircraft in accordance with the Rules of the Air.	F	X	X
(04)	Identify under what circumstances departure from the Rules of the Air may be allowed.	R	X	X
(06)	State that the PIC of an aircraft has the final authority as to the disposition of the aircraft while in command.	F	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
010 05 03 00	General Rules			
010 05 03 01	General rules – Collision avoidance – SERA			
(01)	Describe the rules for avoidance of collisions.	B	X	X
(02)	Describe the lights, including their angles, to be displayed by aircraft.	B	X	X
(03)	Interpret marshalling signals.	R	X	X
(04)	State the rules for minimum height during flight.	F	X	X
(05)	Define when the cruising levels shall be expressed in terms of flight levels (FLs).	F	X	X
(06)	Define under what circumstances cruising levels shall be expressed in terms of altitudes (ALT).	F	X	X
(07)	Explain the limitation for proximity to other aircraft and the right-of-way rules, including holding at runway (RWY)-holding positions and lighted stop bars.	B	X	X
(08)	Describe the meaning of light signals displayed to aircraft and by aircraft.	B	X	X
(10)	Explain the basic rules for an aircraft operating on and in the vicinity of an aerodrome (AD).	B	X	X
(11)	Explain the requirements for the submission of an air traffic service (ATS) flight plan.	B	X	X
(12)	Explain the actions to be taken in case of flight plan change or delay.	B	X	X
(13)	State the actions to be taken in case of inadvertent changes to track, true airspeed (TAS) and time estimate affecting the current flight plan.	F	X	X
(14)	Explain the procedures for closing a flight plan.	B	X	X
(15)	State for which flights an air traffic control (ATC) clearance shall be obtained.	F	X	X
(16)	State how a pilot may request ATC clearance.	F	X	X
(17)	State the action to be taken if an ATC clearance is not satisfactory to a PIC.	F	X	X
(18)	Describe the required actions to be carried out if the continuation of a controlled visual flight rule (VFR) flight in visual meteorological conditions (VMC) is not practicable any more.	B	X	X
(19)	Describe the provisions for transmitting a position report to the appropriate ATS Unit including time of transmission and normal content of the message.	B	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
(20)	Describe the necessary action when an aircraft experiences a communication (COM) failure.	B	X	X
010 05 04 00	Visual flight rules (VFR)			
010 05 04 01	Visual flight rules (VFR) – SERA			
(01)	Describe the VFRs as contained in Commission implementing regulation (EU) No 923/2012 (SERA).	B	X	X
010 05 06 00	Interception of civil aircraft			
010 05 06 01	Interception of civil aircraft – SERA			
(01)	List the possible reasons for the intercepting a civil aircraft.	F	X	X
(02)	State what primary action should be carried out by an intercepted aircraft.	F	X	X
(03)	State which frequency should primarily be tried in order to contact an intercepting aircraft.	F	X	X
(04)	State on which mode and code a transponder on board the intercepted aircraft should be operated.	F	X	X
(05)	Recall the interception signals and phrases.	F	X	X
010 06 00 00	Aircraft operations			
010 06 06 00	Altimeter-setting procedures			
010 06 06 01	Basic requirements and procedures			
(01)	Describe the two main objectives for altimeter settings.	B	X	X
(02)	Define the terms 'QNH' 'local QNH', 'regional QNH' and 'QFE'.	F	X	X
(03)	Describe the different terms for ALT or flight levels (FLs) respectively which are the references during climb or descent to change the altimeter setting from QNH to 1013.2 hPa and vice versa.	B	X	X
(04)	Define the term 'flight level' (FL).	F	X	X
(05)	State where FL zero shall be located.	F	X	X
(06)	State the interval by which consecutive FLs shall be separated.	F	X	X
(07)	Describe how FLs are numbered.	B	X	X
(08)	Define the term 'transition altitude (TA)'.	F	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
(09)	State how TAs shall normally be specified.	F	X	X
(11)	State where TAs shall be published.	F	X	X
(12)	Define the term 'transition level (TRL)'.	F	X	X
(13)	State when the TRL is normally passed to aircraft.	F	X	X
(14)	State how the vertical position of aircraft shall be expressed at or below the TA and TRL.	F	X	X
(15)	Define the term 'transition layer'.	F	X	X
(16)	Describe when the vertical position of an aircraft passing through the transition layer shall be expressed in terms of FLs and when in terms of ALT.	B	X	X
(17)	State when the QNH altimeter setting shall be made available to departing aircraft.	F	X	X
(19)	Explain when, in air-ground communications during an en-route flight, the vertical position of an aircraft shall be expressed in terms of ALT and when in terms of FLs.	B	X	X
(21)	State how a QNH altimeter setting shall be made available to aircraft approaching a controlled aerodrome (AD) for landing.	F	X	X
(22)	State under which circumstances the vertical position of an aircraft above the TRL may be referenced in ALT.	F	X	X
010 06 08 00	Secondary surveillance radar (transponder) operating procedures			
010 06 08 01	Operation of transponders			
(01)	State when and where the pilot shall operate the transponder according to SERA and Dutch law.	F	X	X
(02)	State the modes and codes that the pilot shall operate in the absence of any ATC directions or regional air navigation agreements.	F	X	X
(03)	State when the pilot shall operate Mode C.	F	X	X
(04)	State when the pilot shall 'SQUAWK IDENT'.	F	X	X
(05)	State the transponder code to indicate: - a state of emergency; - a COM failure; - unlawful interference.	F	X	X
(06)	Describe the consequences of a transponder failure in flight.	B	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
(07)	State the primary action of the pilot in the case of an unserviceable transponder before departure when no repair or replacement at the given AD is possible.	F	X	X
(08)	State when the pilot shall operate Mode S.	F		
010 07 00 00	Air Traffic Services (ATS) and Air Traffic Management (ATM)			
010 07 01 00	ICAO Annex 11 - Air Traffic Services			
010 07 01 02	General			
(02)	Describe the three basic types of ATS.	B	X	X
(03)	Describe the three basic types of ATC services.	B	X	X
010 07 01 03	Airspace			
(02)	Describe the various rules and services that apply to the various classes of airspace.	B	X	X
010 07 01 04	Air traffic control (ATC) Services			
(01)	Name all classes of airspace in which ATC services shall be provided.	F	X	X
(02)	Name the ATS units providing ATC services (area control service, approach control service, aerodrome control service).	F	X	X
010 07 01 05	Flight information service (FIS)			
(01)	State for which aircraft FIS shall be provided.	F	X	X
(02)	State whether or not FIS shall include the provision of pertinent significant meteorological information (SIGMET) and air meteorological information report (AIRMET) information.	F	X	X
(03)	State which information FIS shall include in addition to SIGMET and AIRMET information.	F	X	X
(04)	Indicate which other information the FIS shall include in addition to the special information given in ANNEX 11.	B	X	X
(p01)	Describe the following operational FIS broadcasts: ATIS, VOLMET (Amsterdam MET broadcast).	B	X	X
(05)	State the meaning of the acronym 'ATIS' in plain language.	F	X	X
(06)	List the basic information concerning automatic terminal information service (ATIS) broadcasts (e.g. frequencies used, number of ADs included, updating, identification, acknowledgment of receipt, language and channels, ALT setting).	F	X	X
(07)	State the content of an ATIS message.	F	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
(08)	State the reasons and circumstances when an ATIS message shall be updated.	F	X	X
010 07 01 06	Alerting Service			
(01)	State who provides the alerting service.	F	X	X
(02)	State who is responsible for initiating the appropriate emergency phase.	F	X	X
(03)	State the aircraft to which alerting service shall be provided.	F	X	X
(07)	State the information to be provided to those aircraft that operate in the vicinity of an aircraft that is either being in a state of emergency or unlawful interference.	F	X	X
010 07 02 00	ICAO Document 4444 - Air Traffic Management			
010 07 02 02	Definitions			
(01)	Recall the definitions given in ICAO Doc 4444 which are used in the applicable aviation regulations.	F	X	X
010 07 02 04	General provisions for air traffic services (ATS)			
(01)	Describe who is responsible for the provision of flight information and alerting service within an (FIR) within controlled airspace and at controlled ADs.	B	X	X
010 07 02 05	ATC Clearances			
(01)	State which information the issue of an ATC clearance is based on.	F	X	X
(03)	State who bears the responsibility for adhering to the applicable rules and regulations whilst flying under the control of an ATC unit.	F	X	X
(04)	State the two primary purposes of clearances issued by ATC units.	F	X	X
(06)	Explain what is meant by the expression 'clearance limit'.	B	X	X
(07)	Explain the meaning of the phrases 'cleared via flight planned route', 'cleared via (designation) departure' and 'cleared via (designation) arrival' in an ATC clearance.	B	X	X
010 07 02 08	Wake turbulence			
(01)	State the wake turbulence categories of aircraft.	F	X	X
(03)	Describe how a 'HEAVY' aircraft shall indicate this on the initial radiotelephony contact with ATS.	B	X	X
010 07 02 13	Separation in the vicinity of aerodromes (ADs)			

Eind- en toetstermen		Tax	PPLA	PPLH
(01)	Describe the expression 'essential local traffic'.	B	X	X
(02)	State which possible decision the PIC may choose to take if they are asked to accept take-off in a direction which is not 'into the wind'.	F	X	X
010 07 02 15	Arriving and departing aircraft			
(05)	State the sequence of priority between aircraft landing (or in the final stage of an approach to land) and aircraft intending to depart.	F	X	X
010 07 02 16	Procedures for aerodrome (AD) control service			
(p01)	List for which aircraft and their given positions or flight situations the TWR shall prevent collisions.	F	X	X
(04)	Explain the term 'RWY-in-use' and its selection.	B	X	X
(06)	Explain that a report of surface wind direction given to a pilot by the TWR is magnetic.	B	X	X
(07)	Explain the exact meaning of the expression 'RWY vacated'.	B	X	X
010 07 02 17	Radar services			
(01)	State the basic identification procedures used with radar.	F	X	X
(02)	Describe the term 'PSR'.	B	X	X
(p01)	Describe the assistance to a VFR flight that is uncertain of its position or lost.	B	X	X
(05)	Define the term 'radar vectoring'.	F	X	X
010 07 02 19	Procedures related to emergencies, communication (COM) failure and contingencies			
(02)	State the special rights an aircraft in a state of emergency can expect from ATC.	F	X	X
(03)	Describe the expected action of aircraft after receiving a broadcast from ATS concerning the emergency descent of an aircraft.	B	X	X
(04)	State how it can be ascertained, in case of a failure of two-way COM, whether the aircraft is able to receive transmissions from the ATS unit.	F	X	X
(08)	Explain the possible request of ATC to an aircraft to change its radio-telephone (RTF) call sign.	B	X	X
010 07 02 20	Miscellaneous procedures			
(01)	Explain the meaning of 'AIRPROX'.	B	X	X
(02)	Describe the task of an air traffic incident report.	B	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
010 08 00 00	Aeronautical Information Service (AIS)			
010 08 01 00	Introduction			
010 08 01 01	Introduction to ICAO Annex 15 – Aeronautical Information Service (AIS)			
(01)	State, in general terms, the objective of an AIS.	F	X	X
010 08 02 00	Definitions in ICAO Annex 15			
010 08 02 01	Definitions of ICAO Annex 15			
(01)	Recall the following definitions: Aeronautical Information Circular (AIC), Aeronautical Information Publication (AIP), AIP amendment, AIP supplement, aeronautical information regulation and control (AIRAC), danger area, Integrated aeronautical Information Package, international airport, international NOTAM office (NOF), manoeuvring area, movement area, NOTAM, pre-flight information bulletin (PIB), prohibited area, restricted area, SNOWTAM, ASHTAM.	F	X	X
010 08 04 00	Integrated Aeronautical Information Package			
010 08 04 01	Aeronautical information publications (AIP)			
(01)	State the primary purpose of the AIP.	F	X	X
(02)	Name the different parts of the AIP.	F	X	X
(04)	State how permanent changes to the AIP shall be published.	F	X	X
(05)	Explain what kind of information shall be published in form of AIP Supplements.	B	X	X
010 08 04 02	Notices to arimen (NOTAMs)			
(01)	Describe how information shall be published which in principal would belong to NOTAMs but includes extensive text or graphics.	B	X	X
(02)	Summarize the essential information which leads to the issue of a NOTAM.	R	X	X
010 08 04 04	Aeronautical information circulars (AICs)			
(01)	Describe the type of information that may be published in AICs.	B	X	X
010 09 00 00	Aerodromes (ICAO Annex 14, Volume I, Aerodrome Design and Operations)			
010 09 02 00	Aerodrome (AD) data			

Eind- en toetstermen		Tax	PPLA	PPLH
010 09 02 01	<i>Aerodrome (AD) Reference Point</i>			
(p01)	Explain the term aerodrome reference point (ARP).	B	X	X
010 09 02 03	<i>Declared Distances</i>			
(02)	Recall the definitions for the four main declared distances (TORA, TODA, ASDA, LDA).	F	X	X
010 09 02 04	<i>Condition of the movement area and related facilities</i>			
(03)	Describe the three different types of water deposit on RWYs.	B	X	
(04)	Explain the different types of frozen water on the RWY and their impact on aircraft braking performance.	B	X	
010 09 03 00	<i>Physical Characteristics</i>			
010 09 03 04	<i>Clearway (CWY)</i>			
(01)	Explain the term 'clearway'.	B	X	X
010 09 03 05	<i>Stopway</i>			
(01)	Explain the term 'stopway'.	B	X	X
010 09 04 00	<i>Visual aids for navigation</i>			
010 09 04 01	<i>Indicators and signalling devices</i>			
(01)	Describe the wind-direction indicators with which ADs shall be equipped.	B	X	X
(05)	Interpret all indications and signals that may be used in a signal area.	R	X	X
010 09 04 02	<i>Markings</i>			
(01)	Name the colours used for the various markings (RWY, TWY, aircraft stands, apron safety lines).	F	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
(03)	Describe the application and general characteristics of: <ul style="list-style-type: none"> - RWY centre line markings; - THR markings; - Touchdown-zone (TDZ) markings; - RWY-side-stripe markings; - TWY-centre-line markings; - RWY-holding position markings; - intermediate holding position markings; - aircraft-stand markings; - apron safety lines; - mandatory instruction markings; - Information marking. 	B	X	X
010 09 04 03	Lights			
(07)	Describe the wing bars of the precision approach path indicator (PAPI) and the abbreviated precision approach path indicator (APAPI). Interpret what the pilot will see during the approach using PAPI.	R	X	
(08)	Interpret what the pilot will see during approach, using helicopter approach path indicator (HAPI).	R		X

Eind- en toetstermen		Tax	PPLA	PPLH
(09)	<p>Explain the application and characteristics (as applicable, but limited to color, intensity, direction and whether fixed or flashing) of:</p> <ul style="list-style-type: none"> - RWY-edge lights; - RWY-THR and wing-bar lights; - RWY-end lights; - RWY-centre-line lights; - RWY-TDZ lights; - SWY- lights; - TWY-centre-line lights; - TWY-edge lights; - stop bars; - intermediate holding position lights; - RWY-guard lights; - Road-holding position lights. 	B	X	X
010 09 04 04	Signs			
(01)	Explain which signs are the only ones on the movement area utilising red.	B	X	X
(03)	Name the kind of signs which shall be included in mandatory instruction signs.	F	X	X
(04)	Name the colours used for mandatory instruction signs.	F	X	X
(10)	Describe the colours used in connection with information signs.	B	X	X
(11)	Describe the possible inscriptions on information signs.	B	X	X
010 09 04 05	Markers			
(02)	<p>Explain the application and characteristics (excluding dimensions) of:</p> <ul style="list-style-type: none"> - unpaved RWY-edge markers; - TWY-edge markers; - TWY-centre-line markers; - unpaved TWY-edge markers; - boundary markers; - SWY- edge markers. 	B	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
010 09 05 00	Visual aids for denoting obstacles			
010 09 05 01	Marking of objects			
(01)	State how fixed or mobile objects shall be marked if colouring is not practicable.	F	X	X
(02)	Describe marking by colours (fixed or mobile objects).	B	X	X
(03)	Explain the use of markers for the marking of objects, overhead wires, cables etc.	B	X	X
(04)	Explain the use of flags for the marking of objects.	B	X	X
010 09 05 02	Lighting of objects			
(01)	Name the different types of lights to indicate the presence of objects which must be lighted.	F	X	X
(02)	Describe (in general terms) the location of obstacle lights.	B	X	X
(03)	Describe (in general and for normal circumstances) the colour and sequence of low-intensity obstacle lights, medium-intensity obstacle lights and high-intensity obstacle lights.	B	X	X
010 09 06 00	Visual aids for denoting restricted use of areas			
010 09 06 01	Visual aids for denoting restricted use of areas			
(01)	Describe the colours and meaning of 'closed markings' on RWYs and TWY.	B	X	X
(02)	State how the pilot of an aircraft moving on the surface of a TWY, holding bay or apron shall be warned that the shoulders of these surfaces are 'non-load-bearing'.	F	X	X
(03)	Describe the pre-THR marking (including colours) when the surface before the THR is not suitable for normal use by aircraft.	B	X	X
010 09 07 00	Aerodromes (AD) operational services, equipment and installations			
010 09 07 01	Rescue and fire fighting (RFF)			
(01)	State the principal objective of RFF services.	F	X	X
(02)	Explain the basic information the AD category (for RFF) depends upon.	B	X	X
(03)	Describe what is meant by the term 'response time' and state its normal and maximum limits.	B	X	X
010 09 07 02	Apron Management Service			
(01)	State who has a right-of-way against vehicles operating on an apron.	F	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
010 11 00 00	Search and Rescue (SAR))			
010 11 01 00	Essential SAR definitions			
010 11 01 01	Essential SAR definitions - ICAO Annex 12			
(01)	Recall the definition of the following terms: alert phase, distress phase, emergency phase, operator, PIC, rescue co-ordination centre, State of Registry, uncertainty phase.	F	X	X
010 11 03 00	Operating procedures for non-SAR crews			
010 11 03 01	Operating procedures for non-SAR crews – PIC			
(01)	Explain the SAR operating procedures for the PIC who arrives first at the scene of an accident.	B	X	X
(02)	Explain the SAR operating procedures for the PIC intercepting a distress transmission.	B	X	X
010 11 04 00	Search and rescue signals			
010 11 04 01	Search and rescue signal - Survivors			
(01)	Explain the 'ground-air visual signal code' for use by survivors.	B	X	X
(02)	Recognise the SAR 'air-to-ground signals' for use by survivors.	R	X	X
010 12 00 00	Security – Safeguarding International Civil Aviation against Acts of Unlawful interference (ICAO Annex 17)			
010 12 01 00	Essential Definitions of ICAO Annex 17			
010 12 01 01	Essential definitions of ICAO Annex 17			
(01)	Recall the definition of the following terms: airside, aircraft security check, security, security control, security restricted area, unidentified baggage.	F	X	X
010 12 02 00	General Principles			
010 12 02 01	General principles – Objectives of security			
(01)	State the objectives of security.	F	X	X
010 13 00 00	Aircraft accident and incident investigation			
010 13 01 00	Essential definitions of ICAO Annex 13			

Eind- en toetstermen		Tax	PPLA	PPLH
010 13 01 01	Definitions and descriptions			
(01)	Recall the definition of the following terms: accident, aircraft, incident, serious incident, serious injury.	F	X	X
(02)	Explain the difference between 'serious incident' and 'accident'.	B	X	X
010 13 02 00	Accident and Incident investigation in ICAO Annex 13			
010 13 02 01	Objectives and procedures			
(01)	State the objective(s) of the investigation of an accident or incident according to ICAO Annex 13.	F	X	X
(02)	Describe the general procedures for the investigation of an accident or incident according to Annex 13.	B	X	X
010 13 03 00	Accident and Incident investigation in EU regulations			
010 13 03 01	Occurrences			
(04)	Identify occurrences that must be reported (Regulation (EU) No 376/2014, Article 4).	B	X	X
(05)	Identify occurrences that should be voluntarily reported (Regulation (EU) No 376/2014, Article 5).	B	X	X
p010 14 00 00	PPL: National law			
p010 14 01 00	National law and differences to relevant ICAO Annexes and EU regulations			
p010 14 01 01	Toezicht & handhaving			
(p01)	Benoem de bevoegdheden van de luchtvaartpolitie en de luchtvaartinspectie.	F	X	X
p010 14 01 02	Psycho-actieve stoffen			
(p02)	Kennis hebben van de regelgeving voor het gebruik van alcohol en andere psycho-actieve stoffen in de luchtvaart.	B	X	X
p010 14 01 03	Luchtfotografie			
(p03)	Kennis hebben van de regelgeving voor het maken van luchtfoto's.	B	X	X
p010 14 01 04	Landen buiten een luchthaven			
(p04)	Kennis hebben dat het gebruik van een ander terrein dan een luchthaven aan regelgeving is onderworpen.	B	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
070 00 00 00	OPERATIONAL PROCEDURES			
071 01 00 00	General requirements			
071 01 01 00	ICAO Annex 6			
071 01 01 01	Definitions			
(01)	Define the following: alternate aerodrome: flight time (aeroplanes); take-off alternate, en-route alternate, destination alternate.	F	X	
(02)	Define 'alternate heliport'; 'flight time (helicopters)'.	F		X
(p01)	Explain the terms 'commercial air transport', 'general aviation' and 'aerial work'.	B	X	X
071 01 02 00	Operational Requirements (Air operations regulation)			
071 01 02 01	Applicability			
(p01)	Explain the rules for cost-shared flights.	B	X	X
p071 01 02 02	Part-NCO including AMC			
	General			
(p01)	Explain the responsibilities and authority of the pilot-in-command.	B	X	X
(p02)	Explain the compliance with laws, regulations and procedure.	B	X	X
(p03)	List the documents, manuals and information to be carried.	F	X	X
(p04)	Explain the requirements for a journey log or equivalent;	B	X	X
	Operational procedures			
(p05)	Explain the responsibility of the pilot-in-command regarding published noise abatement procedures.	B	X	X
(p06)	Explain the commander's responsibility regarding fuel and oil to be carried and in-flight fuel management, for aeroplanes.	B	X	
(p07)	Explain the commander's responsibility regarding fuel and oil to be carried and in-flight fuel management, for helicopters.	B		X
(p08)	Detail the procedures for passenger briefing with respect to use of seat belts, emergency equipment and exits.	B	X	X
(p09)	State the commander's responsibilities during flight preparation regarding the available facilities and meteorological information.	F	X	X
(p10)	Explain the rules for refuelling/defueling with passengers on board, or embarking/disembarking.	B	X	X

Eind- en toetstermen		Tax	PPLA	PPLH
(p11)	Explain the rules for carriage of passengers, use of seats and safety belt/restraint device.	B	X	X
(p12)	Explain the commander's responsibility regarding smoking on board.	B	X	X
(p13)	State under which conditions a commander can commence or continue a flight regarding meteorological conditions.	F	X	X
(p14)	Explain the commander's responsibility regarding ice and other contaminants.	B	X	X
(p15)	Explain the rules for simulated situations in flight.	B	X	X
(p16)	Detail the rules regarding carriage and use of supplemental oxygen for passengers and aircrew.	B	X	X
(p17)	Explain the compliance with operating limitations.	B	X	X
(p18)	Explain the responsibility of the pilot-in-command to assure that the performance of the aircraft is adequate to comply with the applicable rules of the air and any other restrictions.	B	X	X
	<i>Instruments and equipment</i>			
(p20)	Explain which instruments/equipment require approval in accordance with applicable airworthiness requirements.	B	X	X
(p21)	Explain the requirements regarding availability of spare electrical fuses.	B	X	X
(p22)	List the equipment required for day and night VFR flights.	F	X	X
(p23)	Explain the requirements about seats, seat safety belts, harnesses, and child-restraint devices.	B	X	X
(p24)	Explain the requirements regarding first-aid kits.	B	X	X
(p25)	State which aircraft shall be equipped with hand fire extinguishers.	F	X	X
(p26)	Explain the requirements for an emergency locator transmitter (ELT).	B	X	X
(p27)	Explain the requirements for life jackets, life rafts, and other survival equipment during flight over water in single engine landplanes.	B	X	
(p28)	Explain the requirements for life jackets, life rafts, and other survival equipment during flight over water in helicopters.	B		X
(p29)	List the requirements for navigation equipment when operating under VFR over routes that cannot be navigated by reference to visual landmarks.	F	X	X
071 02 00 00	Special operational procedures and hazards (general aspects)			
071 02 03 00	Bird strike risk			
071 02 03 01	<i>Bird strike risk and avoidance</i>			

Eind- en toetstermen		Tax	PPLA	PPLH
(03)	Explain that the Aeronautical Information Publication (AIP) Section En-route (ENR) 5.6 contains information regarding bird migrations, areas with high bird concentrations and sensitive fauna areas.	B	X	X
(05)	Explain why birds constitute a hazard to aircraft (damage to probes, sensors, engines, windscreens, airframes, degradation in vision, etc.).	B	X	X
071 02 04 00	Noise abatement			
071 02 04 02	<i>Influence of the flight procedure (departure, cruise, approach)</i>			
(p01)	State common measures for noise abatement in general aviation (noise restricted/sensitive areas, designated arrival/departure routes, time restrictions on flight operations, landing fee differentiation).	F	X	X
071 02 10 00	Emergency and precautionary landings			
071 02 10 01	<i>Descriptions</i>			
(p01)	Define precautionary landing, emergency landing.	F	X	X
(01)	Describe the meaning of: 'ditching', 'precautionary landing', and 'emergency landing'.	B		X
(03)	Describe a precautionary landing procedure.	B	X	X
071 02 10 02	<i>Cause</i>			
(01)	List some reasons that may require a precautionary landing or an emergency landing.	F	X	X
071 02 10 05	<i>Evacuation</i>			
(01)	State that the aircraft must be stopped and the engine shut-down before launching an emergency evacuation.	F	X	X
071 02 13 00	Contaminated runways			
071 02 13 01	<i>Kinds of contamination</i>			
(p01)	Define a contaminated runway, a wet runway, a dry runway.	F	X	

Alleen de onderwerpen die als meest relevant voor privévliegers worden beschouwd zijn uitgewerkt in de leerdoelen. De onderwerpen die niet in de leerdoelen zijn uitgewerkt, maar wel terugkomen in de AMC-syllabus zijn in onderstaand tekstvak onder benoemd:

De volgende onderwerpen uit de AMC-syllabus zijn niet uitgewerkt in bovenstaande leerdoelen:

- Relevant parts of the following chapters:
 - (d) measures to facilitate air navigation;
 - (e) conditions to be fulfilled on aircraft;
 - (g) validity of endorsed certificates and licences;
 - (h) notification of differences
- Procedures for air navigation: aircraft operations doc. 8168/611, volume 1
- Secondary surveillance radar transponder operating procedures: Phraseology
- Contaminated Runways: Estimated surface friction and friction coefficient.

Wijzigingen toetsmatrijs LVPALAW

Wijzigingen leerdoelen versie 26-02-2019 (t.o.v. versie 08-03-2015):

Algemene wijzigingen

- De leerdoelen van de vakken die in één examen worden afgenomen, zijn in één document gevoegd.
- De leerdoelen zijn genummerd.
- De kolom met 'opmerkingen' is verwijderd. Alle informatie die (niet) geldt voor PPL staat (niet) in de LO's.

Grote wijzigingen

Air law

- 010 01 01 02: leerdoel (02) en (03) zijn toegevoegd.
- 010 02 00 00: onderdeel 010 02 01 00 is verwijderd .
- 010 02 02 01: derde LO is verwijderd.
- 010 02 04 00 (was 010 03 02 00): tweede en vierde LO zijn verwijderd.
- 010 04 02 05: leerdoel (p01) toegevoegd.
- 010 04 02 05: (p02) alleen voor PPLA en (02) alleen voor PPLH.
- 010 05 01 01: leerdoel (02) is toegevoegd.
- 010 05 03 01: negende LO is verwijderd.
- 010 05 03 01: leerdoel (18) is toegevoegd. `
- 010 06 06 01: tiende, achttiende en twintigste LO zijn verwijderd.
- 010 06 06 01: leerdoel (08) is toegevoegd.
- 010 07 00 00: onderdeel 010 07 01 02 toegevoegd met twee LO's (02) en (03).

- 010 07 01 04: derde LO is verwijderd.
- 010 07 01 05: zevende en achtste LO zijn verwijderd.
- 010 07 02 05: eerste, derde, zesde en negende LO zijn verwijderd.
- 010 07 02 08: tweede LO is verwijderd.
- 010 07 02 13: derde LO is verwijderd.
- 010 07 02 15: onderdeel met bijbehorend LO is toegevoegd.
- 010 07 02 16: eerste en vierde LO zijn verwijderd.
- 010 07 02 17: eerste en tweede LO zijn verwijderd.
- 010 07 02 17: leerdoel (05) is toegevoegd.
- 010 07 02 18: gehele onderdeel met bijbehorende LO's is verwijderd.
- 010 07 02 19: eerste en vijfde LO zijn verwijderd.
- 010 08 04 01: vijfde LO is verwijderd.
- 010 08 04 02: derde LO is verwijderd.
- 010 08 04 03: dit onderdeel is verwijderd.
- 010 09 01 00: dit onderdeel is verwijderd.
- 010 09 02 03: eerste LO is verwijderd.
- 010 09 03 01: dit onderdeel is verwijderd.
- 010 09 04 01: tweede LO is verwijderd.
- 010 09 04 03: eerste LO is verwijderd.
- 010 09 04 04: onderdeel met vijf LO's (01), (03), (04), (10), (11) toegevoegd.
- 010 09 04 05: eerste LO is verwijderd.
- 010 09 05 02: tweede LO is verwijderd.
- 010 09 07 01: tweede LO is verwijderd.
- 010 09 07 02: eerste LO is verwijderd.
- 010 12 04 00: dit onderdeel is verwijderd.
- 010 13 03 01: leerdoel (04) en (05) zijn toegevoegd.
- p010 14 00 00 (PPL: National law): onderdeel milieu en geluidshinder zijn verwijderd.

Operational Procedures

- 071 01 01 01: derde en vierde LO zijn verwijderd.
- 071 01 01 01: leerdoel (p01) is toegevoegd (stond al in de LO's maar is verplaatst).
- 071 01 02 01: dit onderdeel met bijbehorend LO is toegevoegd.
- p071 01 02 02: dit gehele onderdeel 'Part-NCO including AMC' vervangt JAR-OPS.
- 071 02 03 00: dit onderdeel 'Bird strike risk' is toegevoegd (met bijbehorende leerdoelen).
- 071 02 04 01: dit onderdeel is verwijderd.
- 071 02 10 01: vierde leerdoel is verwijderd.
- 071 02 13 01: tweede leerdoel is verwijderd.

Kleine wijzigingen

Air law

- 010 01 01 00: nummering aangepast, begint nu bij 010 01 01 02.
- 010 01 01 02 (01) 'be familair with' is vervangen door 'recall'.
- 010 01 01 02 (01): 'measures to facilitate air navigation' en 'conditions to be fulfilled with respect to aircraft' zijn verwijderd.
- 010 01 01 03 (03): aanpassing van 'Be familair with the hierarchy of ICAO publications – Annexes to the Convention – Documents naar 'Describe the Annexes to the Convention'
- 010 01 04 00 (01): 'general organisation' is verwijderd.
- 010 02 02 00: subonderdeel met nummer 010 02 02 01 is toegevoegd.
- 010 03 00 00: onderdeel is geschrapt en verplaatst naar 010 02 00 00 (010 02 03 00 en 010 02 04 00).
- 010 04 02 01: definities aangepast van 'category of aircraft, cross country flight, dual instruction time, flight time, flight time as SPIC, instrument time, instrument flight time, instrument ground time, MCC, multi-pilot aeroplanes, night, PPL, CPL, proficiency check, rating, renewal, revalidation, skill test, solo flight time, type of aircraft' naar 'category, class and type of aircraft, cross-country, dual instruction time, student pilot-in-command SPIC, night, UDP, private pilot, proficiency check, renewal, revalidation, skill test, solo flight time'.
- 010 04 02 02: naam gewijzigd van 'JAR-FCL 1 and JAR-FCL 2' naar 'Content and structure'.
- 010 04 02 02 (02): aanpassing van 'Explain the requirements to act as a flight crew member of a civil aeroplane registered in a JAA Member State' naar 'Explain the requirements to act as a flight crew member of a civil aircraft registered in a Member State, and know the general principles of the licensing system (light aircraft pilot licence (LAPL), private pilot licence (PPL))'.
- 010 04 02 02 (06) aanpassing van 'Define the term 'State of licence Issue'' naar 'Explain the term 'competent authority''.
- 010 04 02 05 (p02): aanpassing van 'Explain the requirements for plus validity and privileges of Class Ratings' naar 'State the requirements for a single engine piston (SEP) class rating, its validity and privileges'.
- 010 04 02 05 (02): aanpassing van 'Explain the requirements for plus validity and privileges of Type Ratings' naar 'State the requirements for type ratings, their validity and privileges'.
- 010 04 02 06: onderdeel is geschrapt en verplaatst naar 010 04 03 00.
- 010 04 03 00: naam gewijzigd van 'JAR-CL 3 – Medical Requirements' naar 'Aircrew Regulation – Annex IV (Part-MED). Subonderdeel 010 04 03 01 toegevoegd.
- 010 04 03 01 (02): 'for the issue of' toegevoegd.
- 010 05 00 00: subonderdelen toegevoegd.
- 010 05 01 01 (01): aanpassing van 'Explain the definitions in ICAO Annex 2' naar 'Explain the scope and purpose of ICAO Annex 2'.
- 010 05 02 01 (01): aanpassing van 'Explain the Territorial Application of the ICAO Rules of the Air' naar 'Explain the principle of territorial application of the various Rules of the Air, e.g. ICAO, SERA, national rules'.
- 010 05 02 01 (02): aanpassing van 'Explain the compliance with the Rules of the Air' naar 'Explain the necessity to comply with the Rules of the Air'.
- 010 05 02 01 (03): aanpassing van 'State who on board an aircraft is primarily responsible for the operation of the aircraft in accordance with the Rules of the Air' naar 'State that the PIC of an aircraft is primarily responsible for the operation of the aircraft in accordance with the Rules of the Air'.
- 010 05 02 01 (06): aanpassing van 'State who has the final authority as to the disposition of the aircraft' naar 'State that the PIC of an aircraft has the final authority as to the disposition of the aircraft while in command'.
- 010 05 03 01 (02): toevoeging van 'including their angles'.
- 010 05 03 01 (03) 'understand' vervangen door 'interpret'.
- 010 05 03 01 (04): aanpassing van 'State the basic requirements for minimum height for the flight over congested areas of cities, towns or settlements or over an open-air assembly of persons' naar 'State the rules for minimum height during flight'.
- 010 05 03 01 (10) 'indicate' aangepast in 'explain'.
- 010 06 06 01 (02): 'local QNH' en 'regional QNH toegevoegd.

- 010 06 08 01 (05): 'mode' verwijderd.
- 010 07 01 03: 'understand' is vervangen door 'describe'.
- 010 07 01 05 (p01): aanpassing van 'Name the three major types of operational FIS broadcasts' naar 'Describe the following operational FIS broadcasts: ATIS, VOLMET (Amsterdam MET broadcast)'.
- 010 07 01 05 (06): 'give' aangepast in 'state'.
- 010 07 01 05 (07): 'understand' aangepast in 'state'.
- 010 07 01 06 (03): 'indicate' aangepast in 'state'.
- 010 07 01 06 (07): aanpassing van 'Describe the limiting conditions for the information of aircraft in the vicinity of an aircraft being in a state of emergency' naar 'State the information to be provided to those aircraft that operate in the vicinity of an aircraft that is either being in a state of emergency or unlawful interference'.
- 010 07 02 02 (01): de definities uit ICAO Doc 444 die niet van toepassing zijn, staan in het leerdoel genoemd.
- 010 07 02 05 (03): 'indicate' aangepast in 'state'.
- 010 07 02 05 (04): 'name' aangepast in 'state'.
- 010 07 02 13 (02): aanpassing van 'State which possible decision the PIC may choose if departing aircraft are expedited by suggesting a take-off direction which is not 'into the wind' naar 'State which possible decision the PIC may choose to take if they are asked to accept take-off in a direction which is not 'into the wind''.
- 010 07 02 17 (01): 'name' aangepast in 'state'.
- 010 07 02 17 (02): 'define' aangepast in 'describe'.
- 010 07 02 17 (p01): aanpassing van 'Describe the circumstances under which an aircraft provided with radar service should be informed naar 'Describe the assistance to a VFR flight that is uncertain of its position or lost'.of its position'
- 010 08 04 04 (01): aanpassing van 'Describe the reasons for the publication of AICs' naar 'Describe the type of information that may be published in AICs'.
- 010 09 02 01 (p01): aanpassing van 'Describe where the aerodrome reference point shall be located and where it shall normally remain' naar 'Explain the term aerodrome reference point (ARP)'.
- 010 09 02 04 (03): four aangepast in three.
- 010 09 02 04 (04): aanpassing van 'Name the three defined states of frozen water on the RWY' naar 'Explain the different types of frozen water on the RWY and their impact on aircraft braking performance'.
- 010 09 04 02 (03): 'Road holding position marking' is verwijderd.
- 010 09 04 03 (p01): 'APAP, T-VASIS and AT-VASIS' is verwijderd.
- 010 09 04 03 (09): in de aanhef is toegevoegd tussen haakjes: (as applicable, but limited to color, intensity, direction and whether fixed or flashing).
- 010 09 04 03 (09): 'RWY lead in lights' is verwijderd.
- 010 09 07 01 (01): 'name' is aangepast in 'state'.
- 010 11 01 01 (01): 'define the following' aangepast in 'recall the definition of the following terms'.
- 010 12 01 01 (01): 'define the following' aangepast in 'recall the definition of the following terms'.
- 010 12 01 01 (01): 'screening' is verwijderd.
- 010 13 01 00 (01): 'define the following' aangepast in 'recall the definition of the following terms'
- 010 13 01 00 (01): 'flight recorder', 'investigation', 'maximum mass', 'operator', 'State of design', 'State of manufacture', 'State of occurrence', 'State of the operator', 'State of registry' zijn verwijderd.
- 010 13 01 01 (02): 'define' aangepast in 'explain'.
- 010 13 02 00: titel aangepast van 'Applicability of ICAO Annex 13' naar 'Accident and Incident investigation in ICAO Annex 13'.
- 010 13 03 00: titel aangepast van 'ICAO Accident and Incident investigation' naar 'Accident and Incident investigation in EU regulations'.
- p010 14 01 00: 'JARS' en EASA regulations' verwijderd en 'EU regulations' toegevoegd.

- p010 14 01 00 (p01): 'rol' aangepast in 'bevoegdheden.

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- 071 01 01 01 (01): aanpassing van 'Alternate aerodrome : take-off alternate, en-route alternate, ETOPS en-route alternate, destination alternate (ICAO Annex 6 Part I Chapter 1)' naar 'define the following: alternate aerodrome: flight time (aeroplanes); take-off alternate, en-route alternate, destination alternate'.
- 071 01 01 01 (02): aanpassing van 'Alternate heliport (ICAO Annex 6 Part III Section 1 Chapter 1)' naar 'Define 'alternate heliport'; 'flight time (helicopters)'.
- 071 02 04 02 (p01): aanpassing van 'State that detailed information about noise abatement procedures is to be found into the AD 2 and 3 of the AIP. (ICAO Annex 15 Appendix 1)' naar 'State common measures for noise abatement in general aviation (noise restricted/sensitive areas, designated arrival/departure routes, time restrictions on flight operations, landing fee differentiation)'.
- 071 02 10 02: ditching is verwijderd.