

Del 66 - L och B2L licenser

Commission Regulation (EU) 2018/1142

Presentatör

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Introduktion

Commission Regulation (EU) 2018/1142 of 14 August 2018 amending Regulation (EU) No 1321/2014 as regards the introduction of **certain categories of aircraft maintenance licences**, the modification of the acceptance procedure of components from external suppliers and the modification of the maintenance training organisations' privileges

L och B2L licenser, bakgrund



This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

16 August 2018

Official Journal
of the European Union



English edition

Legislation

När ska det vara klart?

- It shall apply from 5 March 2019.
- (a) the requirement for the competent authority to issue aircraft maintenance licences (B2L) in accordance with Annex III (Part-66), shall apply from **5 march 2019**;
- (b) the requirement for the competent authority to issue aircraft maintenance licences (L) in accordance with Annex III (Part-66), shall apply from **1 oct 2019**;
- (c) the requirement for certifying staff to be qualified in accordance with Annex III (Part-66) shall apply from **1 October 2020**.

L och B2L licenser, Kategorier

- **Subject 1(B2L):** Adapt the current licensing requirements for maintenance of avionics and electrical systems to the lower complexity of light aircraft.
- **Subject 2 (L):** Propose a simple and proportional system for the licensing of certifying staff involved in the maintenance of aircraft other than aeroplanes and helicopters and of ELA1 aeroplanes.

L och B2L licenser, Kategorier

IX. Part-66 CATEGORIES							
VALIDITY	A	B1	B2	B2L	B3	L	C
Aeroplanes Turbine				n/a	n/a	n/a	n/a
Aeroplanes Piston				n/a	n/a	n/a	n/a
Helicopters Turbine				n/a	n/a	n/a	n/a
Helicopters Piston				n/a	n/a	n/a	n/a
Avionics	n/a	n/a			n/a	n/a	n/a
Complex motor-powered aircraft	n/a	n/a		n/a	n/a		
Aircraft other than complex motor-powered aircraft	n/a	n/a		n/a	n/a		
Sailplanes, powered sailplanes, ELA1 aeroplanes, balloons and airships	n/a	n/a		n/a	n/a		n/a
Piston engine non pressurised aeroplanes of 2 000 kg MTOM and below	n/a	n/a		n/a		n/a	n/a
X. Signature of issuing officer & date:							
XI. Seal or stamp of issuing authority:							

L och B2L licenser, Kategorier

Part-66 tidigare

B1.1, B1.2, B1.3

B1.4, B2, C



B3



Part-66 idag

B2L



L-licens

L1C, L1, L2C, L2,
L3H, L3G, L4H,
L4G, L5



L licens, privilegier

- **A category L** aircraft maintenance licence shall permit the holder to issue **certificates of release to service and to act as L support staff for the following:**
- — maintenance performed on aircraft structure, power plant and mechanical and electrical systems;
- — work on radio, Emergency Locator Transmitters (ELT) and transponder systems; and
- — work on other avionics systems requiring simple tests to prove their serviceability.

B2L licens, privilegier

- **A category B2L** aircraft maintenance licence shall permit the holder to **issue certificates of release to service and to act as B2L support staff for the following:**
- — maintenance performed on electrical systems;
- — maintenance performed on avionics systems within the limits of the system ratings specifically endorsed on the licence, and
- — when holding the ‘airframe system’ rating, performance of electrical and avionics tasks within power plant and mechanical systems, requiring only simple tests to prove their serviceability.

B2L licenser, ratings

- The **B2L licence** is applicable to **all aircraft other than those in Group 1** and is divided into the following '**system ratings**':
 - communication/navigation (com/nav),
 - instruments,
 - autoflight,
 - surveillance,
 - airframe systems.
- A B2L licence shall contain, as a minimum, one system rating.

L och B2L licens, ratings och grupper

Category	L	B2L
Ratings	<ul style="list-style-type: none">➤ L1C: composite sailplanes➤ L1: sailplanes,➤ L2C: composite powered sailplanes and composite ELA1 aeroplanes,➤ L2: powered sailplanes and ELA1 aeroplanes,➤ L3H: hot-air balloons,➤ L3G: gas balloons,➤ L4H: hot-air airships,➤ L4G: ELA2 gas airships➤ L5: gas airships other than ELA2 (airship type rating)	<ul style="list-style-type: none">➤ . for Group 2 aircraft, the appropriate manufacturer subgroup rating or full subgroup rating;➤ 2. for Group 3 aircraft, the full group rating; and➤ 3. for Group 4 aircraft, the full group rating.

B2L licenser, utbildningskrav

The minimum duration of a complete basic training course :

- B2 2 400 50–60 % theory
- **B2L** 1 500 **50–60 % theory**
- L Examinations only



L och B2L licenser, utbildningskrav

Category	L	B2L
Systemrating	L1C, L1, L2C, L2, L3H, L3G, L4H, L4G, L5	- communication/navigation - instruments, - autoflight, - surveillance, - airframe systems.
Training course	N/A	1500 hours
Examinations 147 Basic	Modules acc. To Del-66, 147 org. Or NAA or "as agreed by the NAA"	Modules acc. To Del-66. 147 org. Or NAA
Experience req.	1 (with limitations*) - 2 years	1-3 years depending on training

L och B2L licenser, privilegier

System rating	Duration (in hours)	Theoretical Training Ratio (in %)
COM/NAV	90	
INSTRUMENTS	55	50–60
AUTOFLIGHT	80	
SURVEILLANCE	40	
AIRFRAME SYSTEMS	100	

Vad är vad?

an aeroplane with a Maximum Take-off Mass (MTOM) of 2000 kg or less		x
an aeroplane with a Maximum Take-off Mass (MTOM) of 1200 kg	x	
a sailplane or powered sailplane of 2000 kg MTOM or less		x
a sailplane or powered sailplane of 1200 kg MTOM or less	x	
a balloon		x
a balloon gas or hot air volume =<3400 m ³ for hot air balloons, =<1050 m ³ for gas balloons, =<300 m ³ for tethered gas balloons;	x	
a hot air ship		x
an airship =<four occupants and a maximum lifting gas or hot air volume =<3400 m ³ for hot air airships =<1000 m ³ for gas airships;	x	
a gas airship meeting all of the following elements: 3% maximum static heaviness, Non-vectorized thrust (except reverse thrust), Conventional and simple design of: structure, control system and ballonet system Non-power assisted controls;		x
a Very Light Rotorcraft, 600 kg MTOM or less	2019-03-25	x

ELA1 och ELA2

GROUP 3: PISTON-ENGINE AEROPLANES (other than those in Group 1)						
TOMTC Holder	Model	Type of structure	Part-66 type rating endorsement	NOTE	MTOM	
					≤ 2t	> 2t
PILATUS AIRCRAFT	PC-6-H1	Metal	Pilatus PC-6 Series (Lycoming)	ELA2		
PILATUS AIRCRAFT	PC-6-H2	Metal	Pilatus PC-6 Series (Lycoming)	ELA2		
PIPER AIRCRAFT	PA-23-235	Metal	Piper PA-23 Aztec (Lycoming)	ELA2	X	
PIPER AIRCRAFT	PA-23-250	Metal	Piper PA-23 Aztec (Lycoming)	ELA2	X	
PIPER AIRCRAFT	PA-E23-250	Metal	Piper PA-23 Aztec (Lycoming)			X
PIPER AIRCRAFT	PA-24	Metal	Piper PA-24 Series (Lycoming)	ELA1	X	
PIPER AIRCRAFT	PA-24-250	Metal	Piper PA-24 Series (Lycoming)	ELA2	X	
PIPER AIRCRAFT	PA-24-260	Metal	Piper PA-24 Series (Lycoming)	ELA2	X	
PIPER AIRCRAFT	PA-24-400	Metal	Piper PA-24 Series (Lycoming)	ELA2	X	
PIPER AIRCRAFT	PA-28-201T (Turbo Dakota)	Metal	Piper PA-28 Series (Continental)	ELA1	X	
PIPER AIRCRAFT	PA-28R-201T (Turbo Arrow III)	Metal	Piper PA-28 Series (Continental)	ELA2	X	
PIPER AIRCRAFT	PA-28RT-201T (Turbo Arrow IV)	Metal	Piper PA-28 Series (Continental)	ELA2	X	
PIPER AIRCRAFT	PA-28-140 (Cherokee Cruiser)	Metal	Piper PA-28 Series (Lycoming)	ELA1	X	
PIPER AIRCRAFT	PA-28-150 (Cherokee)	Metal	Piper PA-28 Series (Lycoming)	ELA1	X	
PIPER AIRCRAFT	PA-28-151 (Cherokee Warrior)	Metal	Piper PA-28 Series (Lycoming)	ELA1	X	
PIPER AIRCRAFT	PA-28-160 (Cherokee)	Metal	Piper PA-28 Series (Lycoming)	ELA1	X	
PIPER AIRCRAFT	PA-28-161	Metal	Piper PA-28 Series (Lycoming)	ELA1	X	
PIPER AIRCRAFT	PA-28-161 (Warrior II)	Metal	Piper PA-28 Series (Lycoming)	ELA1	X	
PIPER AIRCRAFT	PA-28-161 (Warrior III)	Metal	Piper PA-28 Series (Lycoming)	ELA1	X	
PIPER AIRCRAFT	PA-28-180 (Archon)	Metal	Piper PA-28 Series (Lycoming)	ELA1	X	

L licens och ratings

Category L ratings

- **L1C:** composite sailplanes
- **L1:** sailplanes,
- **L2C:** composite powered sailplanes and composite ELA1 aeroplanes,
- **L2:** powered sailplanes and ELA1 aeroplanes,
- **L3H:** hot-air balloons,
- **L3G:** gas balloons,
- **L4H:** hot-air airships,
- **L4G:** ELA2 gas airships,
- **L5:** gas airships other than ELA2.

L och B2L licenser, grupper

- **Group 1:** complex motor-powered aircraft, helicopters with multiple engines, aeroplanes with maximum certified operating altitude exceeding FL290, aircraft equipped with fly-by-wire systems, gas airships other than ELA2
- **Group 2:**
 - subgroup 2a: single turboprop engine aeroplanes;
 - subgroup 2b: single turbine engine helicopters; and
 - subgroup 2c: single piston engine helicopters.
- **Group 3:** piston engine aeroplanes other than those in Group 1.

Ny grupp:

- **Group 4:** sailplanes, powered sailplanes, balloons and airships, other than those in Group 1.'

L och B2L licenser

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Aeroplanes Piston				n/a	n/a	n/a	n/a
Helicopters Turbine				n/a	n/a	n/a	n/a
Helicopters Piston				n/a	n/a	n/a	n/a
Avionics	n/a	n/a			n/a	n/a	n/a
Complex motor-powered aircraft	n/a	n/a		n/a	n/a	n/a	
Aircraft other than complex motor-powered aircraft	n/a	n/a		n/a	n/a	n/a	
Sailplanes, powered sailplanes, ELA1 aeroplanes, balloons and airships	n/a	n/a		n/a	n/a	n/a	
Piston engine non pressurised aeroplanes of 2 000 kg MTOM and below	n/a	n/a		n/a	n/a	n/a	
X. Signature of issuing officer & date:							
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L och B2L licenser

XII. PART-66 RATINGS		
Aircraft rating/ System ratings	Category/Subcategory	Stamp & Date
Autoflight, Instruments Manufacturer subgroup rating Airbus	B2L	2018/10/03
Communication/ navigation (com/nav), Group 3 aircraft, full group rating	B2L	2018/10/03
Composite sailplanes	L1C	2018/10/03
Gas Balloons	L3G	2018/10/03
Hot-Air balloons	L3H	2018/10/03

III. Licence No:

L och B2L licenser

- Konverteringsrapport
- AMC och GM
- Samarbete med segelflygförbundet
- Samarbete med Ballong Federationen
- Inga privilegier enligt de nationella reglerna får förloras



L och B2L licenser

Frågor



L och B2L licenser

Tack för er uppmärksamhet