



Seminarium luftvärdighet för CAMO, MF/AUB-verkstäder och tekniker

L och B2L licenser, nu är de här!

Krister Bratt
Sektionen för underhålls och
tillverkningsorganisationer

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



Commission Regulation (EU) 2018-1142

European Aviation Safety Agency Opinion
No 05/2015

Publication date of the Opinion: 2015/Q2

Publication date of the **Decision: 2016/Q4**

L och B2L licenser , bakgrund

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

IX. Part-66 CATEGORIES

VALIDITY	A	B1	B2	B2L	B3	L	C
Aeroplanes Turbine			n/a	n/a	n/a	n/a	n/a
Aeroplanes Piston			n/a	n/a	n/a	n/a	n/a
Helicopters Turbine			n/a	n/a	n/a	n/a	n/a
Helicopters Piston			n/a	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:

XI. Seal or stamp of issuing authority:

L och B2L licenser

Part-66 tidigare

B1.1, B1.2, B1.3

B1.4, B2, C



B3



Part-66 idag

B2L + ratings

L –

L1C, L1, L2C, L2,

L3H, L3G, L4H,

L4G, L5



L och B2L licenser, 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.

L och B2L licenser, 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.

L och B2L licenser, privilegier

- 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 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, 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, and
- **L5:** gas airships other than ELA2.

L och B2L licenser, ratings

- **Definitions of ELA aircraft introduced by Regulation (EU) 800/2013**
- Reg. (EU) No 800/2013 adds new definitions in Annex I, Definitions:
- **ELA1 aircraft'** means the following manned European Light Aircraft:
 - **an aeroplane with a Maximum Take-off Mass (MTOM) of 1200 kg or less that is not classified as complex motor-powered aircraft;**
- **ELA2 aircraft'** means the following manned European Light Aircraft:
 - **an aeroplane with a Maximum Take-off Mass (MTOM) of 2000 kg or less that is not classified as complex motor-powered aircraft;**

L och B2L licenser, ratings

- **Definitions of ELA aircraft introduced by Regulation (EU) 800/2013**
- **ELA1 aircraft** means the following manned European Light Aircraft:
 - a sailplane or powered sailplane of 1200 kg Take-off Mass MTOM or less;
- **ELA2 aircraft** means the following manned European Light Aircraft:
 - a sailplane or powered sailplane of 2000 kg Take-off Mass MTOM or less;

Vad är vad?	ELA1	ELA2
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 m3 for hot air balloons, =<1050 m3 for gas balloons, =<300 m3 for tethered gas balloons;	X	
a hot air ship		X
an airship =<four occupants and a maximum lifting gas or hot air volume =<3400 m3 for hot air airships =<1000 m3 for gas airships;	X	
a gas airship meeting all of the following elements: 3% maximum static heaviness, Non-vectorred thrust (except reverse thrust), Conventional and simple design of: structure, control system and ballonnet system Non-power assisted controls;	2018-11-16	X
a Very Light Rotorcraft, 600 kg MTOM or less		X

L och B2L licenser, ratings

Category	L	B2L
Systemrating	L1C, L1, L2C, L2, L3H, L3G, L4H, L4G, L5	<ul style="list-style-type: none"> - communication/navigation - instruments, - autoflight, - surveillance, - airframe systems.
Examinations	Modules acc. to Part-66. 147 org. or NAA or "as agreed by the NAA"	Modules acc. to Part-66. 147 org. or NAA
147 Basic Training course	N/A	1500 hours
Experience req.	1 (with limitations*) - 2 years	1-3 years depending on training

L och B2L licenser, ratings

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: the appropriate 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.

L och B2L licenser

- **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, exempel...

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: SE.66.19xxnmm-5555

Hur ska TS gå till väga vid konvertering?

- Ta fram en konverteringsrapport
- Följa AMC och GM
- Samarbete/Delegering till bransch organisationer
- Inga privilegier enligt de nationella reglerna får förloras



L och B2L licenser, ratings

Category L ratings

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Frågor





Tack för er uppmärksamhet

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