

Aircraft Maintenance Engineer's Basic Practical Logbook

About this document

This logbook is supported by the Swiss Federal Office of Civil Aviation FOCA/BAZL and Swiss Aircraft Maintenance Association SAMA/SVFB. It provides the recommended means of recording basic practical maintenance training in order to support an application to the authority for the issue or variation of an Aircraft Maintenance License in accordance with EASA Part-66 and related guidance. Its structure guides the applicant's recordings in view of a quick and accurate assessment of his/her training and technical knowledge. In order to make it a widely used reference, this logbook is downloadable at FOCA and SAMA websites: www.bazl.admin.ch or www.svfb.ch

Personal Data please print

Family & first name: _____

Nationality: _____ Date of Birth: _____

Full address: _____

Licence Category applied for (EASA Form 19): circle your category

Aeroplane Turbine	Aeroplane Piston	Helicopter Turbine	Helicopter Piston	Avionics	Aeroplane Piston < 2 t
A1	A2	A3	A4		
B1.1	B1.2	B1.3	B1.4	B2	B3

The required tasks for the encircled category have been performed and assessed where appropriate.

Name and Signature of approved Assessor:

Training period
 Categorie.: ___ Start date: _____ End date: _____
 Categorie.: ___ Start date: _____ End date: _____
 Categorie.: ___ Start date: _____ End date: _____

Log Book Owner's Signature: _____ Date of EASA Form 19 Application: _____

General Information

1. All entries in this logbook shall be made in ink.
2. When used in support of an application for a licence, any false entry in the logbook will constitute a legal offence.
3. Entries in the logbook shall be made personally by the logbook holder and confirmed/certified by an authorised person (e.g. instructor or assessor, Part-147, -145, M/F or FOCA authorised person).
4. Leave unused fields open. They might later be used for a licence extension.

Completion of the Log pages

The log pages of this book have the following general format:

<i>Index</i>	<i>ATA</i>	<i>Task / Competence</i>	<i>Licence Category</i> A B1 B2 B3	<i>A/C Registration or Workshop or Workorder</i>	<i>Instructor / Assessor and Company</i>	<i>Date</i> (ddmmyy)
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The following information and instruction for each column shall be observed:

<i>Index</i>	Numbering of the items for easy reference
<i>ATA chapter</i>	Reference to ATA 100 classification
<i>Task / Competence:</i>	Describes the task to be performed or competence to be obtained. The tasks identified in this section are agreed between FOCA and SAMA, to satisfy EASA Part 66 basic practical knowledge and experience requirements. The training and assessment may be carried out on in-service aircraft, in workshops, on training equipment or on simulators.
<i>Licence Category</i>	The references in this column indicate for which licence category the task / competence described is required. Circle the licence category for which your basic training is intended in the header of each page.
<i>A/C Registration or Workshop or Workorder:</i>	The entries made in this column state where the task has been performed, to allow traceability. In case of extensive work, it may be useful to add a detailed work report to the logbook folder.
<i>Instructor/Assessor and Company:</i>	Each entry must be signed by an instructor/assessor, with full name and organisation, to certify that the logbook owner has achieved the required competence on the subject or that the task has been carried out correctly under his supervision.
<i>Date:</i>	Indicates the date of closure/certifying by the authorised person.

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1	20	7.1 - 7.3	Safety Precautions, Workshop Practices and Tools (M7.1 - 7.3)	A B1 B2 B3	A B1 B2 B3			
2		7.1	Explain hazards when working with aircraft related to noise, heat, moving surfaces, propellers, rotors, intakes, exhausts	A B1 B2 B3	A B1 B2 B3			
3		7.1	Demonstrate safety precautions when using fluids, gasses and chemicals	A B1 B2 B3	A B1 B2 B3			
4		7.2	Apply and explain workshop environment related safety practices	A B1 B2 B3	A B1 B2 B3			
5		7.2	Define proper care and control of tools and equipment	A B1 B2 B3	A B1 B2 B3			
6		7.2	Check validity of calibration of tools and equipment	A B1 B2 B3	A B1 B2 B3			
7		7.2	Demonstrate inspection technic using a mirror and a light source	A B1 B2 B3	A B1 B2 B3			
8		7.3	Use tools and equipment for cutting, forming and joining commonly used materials (Ferrous and non-ferrous)	A B1 B2 B3	A B1 B2 B3			
9		7.3	Demonstrate correct use of measuring equipment e.g. micrometers, verniers and height gauges	A B1 B2 B3	A B1 B2 B3			
10		7.3	Demonstrate the use of lubrication equipment according AMM	A B1 B2 B3	A B1 B2 B3			
11		7.3	Use a torque meter with and without extension	A B1 B2 B3	A B1 B2 B3			

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12	20	7.4	Avionic General Test Equipment (M7.4)	- B1 B2 -			
13		7.4	Perform a typical avionic test using a test equipment	- B1 B2 -			
14		7.4	Use test meters to measure volts, amps and resistance in practical task circumstances	- B1 B2 -			
15		7.4	Check an aircraft electrical circuit for continuity in conjunction with an electrical wiring diagram	- B1 B2 -			
16		7.4	Carry out basic fault finding techniques using a range of test meters	- B1 B2 -			
17		7.4	Carry out bonding and insulation tests	- B1 B2 -			
18	20	7.5 - 7.6	Engineering Drawings, Fits and Clearances (M7.5 - 7.6)	A B1 B2 B3			
19		7.5	Interpret and work to engineering drawings	A B1 B2 B3			
20		7.5	Demonstrate correct reading and interpretation of electrical wiring diagrams	A B1 B2 B3			
21		7.6	Demonstrate / explain use of feeler, slip, limit, go / no go gauges	A B1 B2 B3			
22		7.6	Fit and remove thread inserts	A B1 - B3			
23		7.6	Drill and tap a threaded hole	- B1 B2 B3			

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24		7.6	Drill and ream perpendicular holes in ferrous and non-ferrous material	- B1 - B3			
25	20	7.7	Electrical Wiring Interconnection System (EWIS) (M7.7)	A B1 B2 B3			
26		7.7	Demonstrate wire splicing methodes	- B1 B2 B3			
27		7.7	Identify a range of electrical component symbols	- B1 B2 B3			
28		7.7	Identify cables and cables values by reference to the maintenance manuals	- B1 B2 -			
29		7.7	Insert / extract electrical inserts (pins) in a variety of electrical connectors	- B1 B2 B3			
30		7.7	Inspect coaxial cable installations, correct them if necessary	- B1 B2 B3			
31		7.7	Inspect electrical cable looms and bundles and correct them if necessary	- B1 B2 B3			
32		7.7	Inspection of cable feed-throughs	A B1 B2 B3			
33		7.7	Install wiring clamps	A B1 B2 B3			
34		7.7	Interpret typical electrical wiring diagrams and schematics circuits	- B1 B2 B3			
35		7.7	Prepare and install a simple loom, using at least two binding methods	- B1 B2 B3			

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				A	B1	B2	B3			
36		7.7	Repair or replace an electrical connector	-	B1	B2	-			
37		7.7	Select and use appropriate cable stripping tools	-	B1	B2	B3			
38		7.7	Use two crimping systems to prepare cable ends or plug / socket terminals	-	B1	B2	B3			
39	20	7.8	Riveting (M7.8)	-	B1	-	B3			
40		7.8	Use hand & power tools to drill rivet holes in an exact distance ($\pm 0.75\text{mm}$)	-	B1	-	B3			
41		7.8	Identify a range of solid and blind rivets and fasteners	-	B1	-	B3			
42		7.8	Identify, select and use a range of rivet setting equipment	-	B1	-	B3			
43		7.8	Set a range of raised and countersunk rivets in aluminium sheet using various methods	-	B1	-	B3			
44		7.8	Identify faulty rivet settings	-	B1	-	B3			
45		7.8	Remove defective rivets without causing further damage to skin	-	B1	-	B3			
46		7.8	Select and install oversize rivets as instructed by Structure Repair Manual	-	B1	-	B3			
47		7.8	Set a range of different fasteners in aluminium sheet	-	B1	-	B3			

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106	20	7.18	Replace internal and external lamps / bulbs	A B1 B2 B3			
107	20	7.18	Replace static discharge wick	A B1 B2 B3			
108	5	7.18	Perform non destructive inspections (e.g. penetrant and boroscope inspection)	- B1 - B3			
109	5	7.18	Demonstrate proficiency in troubleshooting techniques using TSM and on-board reporting systems	- B1 B2 B3			
110	5	7.18	Perform pre-flight check	A B1 B2 B3			
111	5	7.20	Assist and explain a scheduled check (e.g. 100h check or A-check)	A B1 B2 B3			
112	5	7.19	Suppose a hard or overweight landing: Show unscheduled inspection procedure according AMM and explain action	A B1 - B3			
113	5	7.19	Explain the required inspection following a lightning strike or static discharge	A B1 B2 B3			
114	5	7.20	Demonstrate close-up of documentation following performance of maintenance tasks	A B1 B2 B3			
115		11	Airplane Turbine & Airplane Piston (M11)	A B1 B2 B3			
116	25	11.3	Inspect cabin / cockpit equipment for serviceability	A B1 - B3			
117	25	7.18	Perform replacement of an oven or boiler	A B1 - -			

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118	27	11.9	Perform gust lock operational check	A B1 - B3			
119	27	11.9	Run a functional check on auto flap retraction	A B1 - -			
120	27	11.9	Test function of mechanically operated ailerons, elevators, rudder	A B1 - B3			
121	27	11.9 / 13.7	Suppose a faulty flight control system: Use the on-board reporting system for troubleshooting	- B1 B2 -			
122	27	11.9 / 13.7	Run a functional check on a fly-by-wire system	- B1 B2 -			
123	32	11.13	Assist or explain replacement of seals on shock strut	A B1 - B3			
124	32	11.13 / 13.16	Prepare airplane for landing gear retraction / extension operation	A B1 B2 B3			
125	32	11.13 / 13.16	Perform functional test of anti skid system	- B1 B2 B3			
126	35	11.15 / 13.17	Replenish oxygen system, or replace O2-cylinder	A B1 B2 -			
127	36	11.16	Prepare environment for APU Start	A B1 - B3			
128	38	11.17	Replenish potable water	A B1 - -			
129	38	11.17	Inspect toilet and galley units for serviceability	A B1 - -			

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130		11 & 12	Airplane Turbine, Piston and Helicopter (M11&12)	A B1 B2 B3			
131	21	11.4 / 12.6 / 13.11.2	Check operation of airconditioning system (B1.3 & B3: Check operation of heating and ventilation)	A B1 B2 B3			
132	24	11.6 / 12.8 / 13.5	Conduct a NICA battery check	- B1 B2 B3			
133	24	11.6 / 12.8 / 13.4	Remove / refit main batterie	A B1 B2 B3			
134	24	11.6 / 12.8 / 13.5	Replace an electrical component and run a functional test according to AMM	- B1 B2 B3			
135	25	11.3 / 12.5	Replace a crew or passenger seat	A B1 - B3			
136	25	11.7 / 12.9	Check seat belts for serviceability	A B1 - B3			
137	25	11.7 / 12.9 / 13.6	Check condition and function of emergency equipment and ELT	A B1 B2 B3			
138	26	11.8 / 12.10	Perform weight check on fire extinguisher container and replace, if necessary	A B1 - B3			
139	26	11.8 / 12.10 / 13.12	Inspect and test fire detecting systems	A B1 B2 -			
140	27	11.9 / 13.7	Explain precaution and safety measures required before operating flight controls	A B1 B2 B3			
141	27	11.9	Perform rigging of flight controls following component replacement	- B1 - B3			

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142	27	11.9	Explain replacement procedure for a hydraulic flight control actuator	- B1 - -			
143	27	11.9 / 12.7 / 13.7	Determine aircraft airworthiness per MEL/CDL	- B1 B2 -			
144	27	11.9 / 13.7	Run a functional check on hydraulically operated flight control systems	- B1 B2 -			
145	28	11.1 / 12.11	Replace and test a fuel booster pump	A B1 - B3			
146	29	11.11 / 12.12	Replace a hydraulic system component according AMM	- B1 - B3			
147	29	11.11 / 12.12 / 13.14	Explain replacement / installation of hydraulic pump (electrical or engine driven)	A B1 B2 B3			
148	29	11.11 / 12.12	Inspect hydraulic reservoir, replenish fluid and recharge reservoir if required	A B1 - B3			
149	30	11.12 / 12.13 / 13.15	Check function of anti-ice or de-icing system	A B1 B2 B3			
150	30	11.12 / 12.5	Remove and refit windshield wiper blades	A B1 - B3			
151	32	11.13 / 12.14	Replace landing gear wheels	A B1 - B3			
152	32	11.13 / 12.14	Remove / install wheel brake	A B1 - B3			
153	32	11.13 / 12.14	Bleed hydraulic brakes	A B1 - B3			

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				A B1 B2 B3			
214	73	16.4	Perform a FADEC system test (if installed)	- B1 - B3			
215	73	16.4	Perform a fuel injection system check	- B1 - B3			
216	73	16.4	Perform carburetor fuel mixer and idle RPM adjustment	- B1 - B3			
217	74	16.5	Perform ignition system test	A B1 - B3			
218	74	16.5	Perform magnetos adjustment	- B1 - B3			
219	74	16.5	Replace spark plug and check function	A B1 - B3			
220	75	16.6	Check baffles for condition	A B1 - B3			
221	76	16.4	Rig engine power lever	- B1 - B3			
222	77	16.10	Perform functional test on engine indication system	A B1 - B3			
223	77	16.10	Demonstrate replacement of temperature sensor	- B1 - B3			
224	77	16.3	Perform vacuum pump check	- B1 - B3			
225	78	16.7	Demonstrate turbocharger and waste gate test and adjustment	- B1 - B3			

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				A	B1	B2	B3			
226	80	16.5	Assist replacement of starter motor	A	B1	-	B3			
227		17	Propeller (M17)	A	B1	-	B3			
228	61	17.2	Assist in propeller removal / refit	A	B1	-	B3			
229	61	17.4	Demonstrate propeller synchronising procedure with synchrophasing equipment	-	B1	-	B3			
230	61	17.5	Check propeller de-icing system and components	A	B1	-	B3			
231	61	17.6	Perform propeller lubrication	A	B1	-	B3			
232	61	17.6	Check propeller track	-	B1	-	B3			
233	61	17.6	Assist propeller static and dynamic balancing	-	B1	-	B3			
234	61	17.6	Demonstrate adjustment of propeller RPM	-	B1	-	B3			

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