



**Appendices 4.2.1: Basic Training Δ B1.1 → B2**

Syllabi training course Δ B1.1 → B2 post-EC1149 ..... 2

Module 4. Electronic Fundamentals post-EC1149 ..... 3

Module 5. Digital Techniques/Electronic Instrument Systems post-EC1149..... 4

Module 7A. Maintenance Practices post-EC1149 ..... **Fout! Bladwijzer niet gedefinieerd.**

Module 13. Aircraft Aerodynamics, Structures and Systems post-EC1149 ..... 5

Module 14. Propulsion post-EC1149..... **Fout! Bladwijzer niet gedefinieerd.**

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**Syllabi training course Δ B1.1 → B2 post-EC1149**

All modules and sub-modules applicable to the B2 training course are compared with de B1.1 training course. All mandatory elements are added to this Δ B1.1→B2 training course. The examination standard is listed per basic training Module.

The syllabi is the basis for creating a course program including the assigned teachers and instructors per module/submodule. The course program is available at the TM.

Module	Comparison content and Level module B1.1 to B2	Total credit
1	Equal	Yes
2	Equal or higher	Yes
3	Equal	
4	Equal or lower	No
5	Equal or lower	No
6	Equal or higher	Yes
7A	Equal or lower	Yes (based on CAA-NL Policy)
8	Equal	Yes
9A	Equal	Yes
10	Equal	Yes
11A	Not required	-
13	Compared to M11	No
14	Compared to M15	Yes
15	Not required	-
17A	Not required	-

Modules en submodules	Category				Cross reference		B1 Credits		Total hours ΔB1.1 → B2	
	A	B1	B2		Level B1 M4	Level B2 M4	Part-66 ref. App. I M4	Credits	Practical	Theoretical
<b>Module 4. Electronic Fundamentals post-EC1149</b>	-	-	-		-	-	-	-	-	<b>52</b>
4.1 Semiconductors	-	-	-			-	-	-		
4.1.1a Diodes	-	x	x		2	2	4.1.1a	yes		
<b>4.1.1b Diodes</b>	-	-	x		-	2	4.1.1b	<b>no</b>		
<b>4.1.2a Transistors</b>	-	x	x		1	2	4.1.2.a	<b>no</b>		
<b>4.1.2b Transistors</b>	-	-	x		-	2	4.1.2b	<b>no</b>		
4.1.3a Integrated Circuits	-	x	-		1	-	4.1.3a	n/a		
<b>4.1.3b Integrated Circuits</b>	-	-	x		-	2	4.1.3b	<b>no</b>		
<b>4.2 Printed Circuit Boards</b>	-	x	x		1	2	4.2	<b>no</b>		
4.3a Servomechanisms	-	x	-		1	-	4.3a	n/a		
<b>4.3b Servomechanisms</b>	-	-	x		-	2	4.3b	<b>no</b>		
<b>Examination planning</b>										

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Modules and submodules	Category				Cross reference		B1.1/B1.3 Credits		Total hours ΔB1.1 → B2	
	A	B1	B2		Level B1.1/B1.3 M5	Level B2 M5	Part-66 ref. App. I M5	Credits	Practical	Theoretical
<b>Module 5. Digital Techniques/Electronic Instrument Systems post-EC1149</b>					-	-	-	-	-	54
<b>5.1 Electronic Instrument Systems</b>	x	x	x		2	3	5.1	no		
<b>5.2 Numbering Systems</b>	-	x	x		1	2	5.2	no		
<b>5.3 Data Conversion</b>	-	x	x		1	2	5.3	no		
5.4 Data Buses	-	x	x		2	2	5.4	yes		
5.5a Logic Circuits	-	x	x		2	2	5.5a	yes		
<b>5.5b Logic Circuits</b>	-	-	x		-	2	5.5b	no		
5.6a Basic Computer Structure	x	x	-		2	-	5.6a	yes		
<b>5.6b Basic Computer Structure</b>	-	-	x		-	2	5.6b	no		
<b>5.7 Microprocessors</b>	-	-	x		-	2	5.7	no		
<b>5.8 Integrated Circuits</b>	-	-	x		-	2	5.8	no		
<b>5.9 Multiplexing</b>	-	-	x		-	2	5.5	no		
<b>5.10 Fibre Optics</b>	-	x	x		1	2	5.10	no		
5.11 Electronic Displays	-	x	x		2	2	5.11	yes		
5.12 Electrostatic Sensitive Devices	x	x	x		2	2	5.12	yes		
5.13 Software Management Control	-	x	x		2	2	5.13	yes		
5.14 Electromagnetic Environment	-	x	x		2	2	5.14	yes		
5.15a Typical Electronic/Digital Aircraft Systems	-	x	x		2	2	5.15a	yes		
5.15b Typical Electronic/Digital Aircraft Systems	-	x	x		2	2	5.15b	yes		
<b>Examination planning</b>										
At request										

Modules and submodules	Category				Cross reference		B1.1 Credits		Total hours ΔB1.1 → B2	
	A	B1	B2		Level B1.1 M11	Level B2 M13	Part-66 ref. App. I M11	Credits	Practical	Theoretical
<b>Module 13. Aircraft Aerodynamics, Structures and Systems post-EC1149</b>	A	B1	B2		-	-	-	-	90	404
PART-ONE	-	-	-		-	-	-	-		
13.1 Theory of Flight	-	-	-		-	-	-	-		
13.1a Aeroplane Aerodynamics and Flight Controls	-	-	X		2	1	11.1.1	yes		
13.1b High Speed Flight	-	-	X		2	1	11.1.2	yes		
<b>13.1c Rotary Wings Aerodynamics</b>	-	-	X		-	1	-	no		
13.2a Structures – General Concepts	-	-	X		2	1	11.2.a	yes		
13.2b Structures – General Concepts	-	-	X		2	2	11.2.b	yes		
<b>13.3 Autoflight (ATA22)</b>	-	-	X		1	3	11.5.2	no		
<b>13.4 Communication/Navigation (ATA23/34)</b>	-	-	X		1	3	11.5.2	no		
13.5 Electrical Power (ATA 24)	-	-	X		3	3	11.6	yes		
<b>13.6 Equipment and Furnishings (ATA 25)</b>	-	-	X		2/1	3	11.7a +b	no		
PART-TWO	-	-	-		-	-	-	-		
13.7a Flight Controls (ATA 27)	-	-	X		3	2	11.9	yes		
<b>13.7b Flight Controls (ATA 27)</b>	-	-	X		-	3	-	no		
<b>13.8 Instrument Systems (ATA 31)</b>	-	-	X		2	3	11.5.1	no		
13.9 Lights (ATA 33)	-	-	X		3	3	11.14	yes		
<b>13.10 On board Maintenance Systems (ATA 45)</b>	-	-	X		2	3	11.18	no		
13.11 Air Conditioning and cabin Pressurisation	-	-	-		-	-	-	-		
13.11.1 Air supply	-	-	X		2	2	11.4.1	yes		
13.11.2 L1 Air Conditioning	-	-	X		3	1	11.4.2	yes		
13.11.2 L2 Air Conditioning	-	-	X		3	2	11.4.2	yes		
13.11.2 L3 Air Conditioning	-	-	X		3	3	11.4.2	yes		
13.11.3 Pressurisation	-	-	X		3	3	11.4.3	yes		
13.11.4 Safety and warning devices	-	-	X		3	3	11.4.4	yes		

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13.12 Fire Protection (ATA 26)	-	-	-	-	-	-	-	-	-
13.12 a Fire and smoke detection and warning systems	-	-	X	3	3	11.8	yes		
13.12b Portable fire extinguisher	-	-	X	1	1	11.8	yes		
13.13 L1 Fuel Systems (ATA 28)	-	-	X	3	1	11.10	yes		
13.13 L2 Fuel Systems (ATA 28)	-	-	X	3	2	11.10	yes		
13.13 L3 Fuel Systems (ATA 28)	-	-	X	3	3	11.10	yes		
13.14 L1 Hydraulic Power (ATA 29)	-	-	X	3	1	11.11	yes		
13.14 L3 Hydraulic Power (ATA 29)	-	-	X	3	3	11.11	yes		
13.15 L1 Ice and Rain Protection (ATA 30)	-	-	X	3	1	11.12	yes		
13.15 L2 Ice and Rain Protection (ATA 30)	-	-	X	3	2	11.12	yes		
13.15 L3 Ice and rain Protection (ATA 30)	-	-	X	3	3	11.12	yes		
13.16 L1 Landing Gear (ATA 32)	-	-	X	3	1	11.13	yes		
13.16 L3 Landing Gear (ATA 32)	-	-	X	3	3	11.13	yes		
13.17 Oxygen (ATA 35)	-	-	X	3	3	11.15	yes		
13.18 L1 Pneumatic/Vacuum (ATA 36)	-	-	X	3	1	11.16	yes		
13.18 L2 Pneumatic/Vacuum (ATA 36)	-	-	X	3	2	11.16	yes		
13.18 L3 Pneumatic/Vacuum (ATA 36)	-	-	X	3	3	11.16	yes		
13.19 Water/Waste (ATA 38)				3	2	11.17	yes		
<b>13.20 Integrated Modular Avionics (ATA 42)</b>	-	-	X	2	3	11.19	no		
<b>13.21 Cabin Systems (ATA 44)</b>	-	-	X	2	3	11.20	no		
<b>13.22 Information Systems (ATA 46)</b>	-	-	X	2	3	11.21	no		
Examination planning									
At request									