Justification of course duration, training needs analysis (TNA) for direct approval of aircraft type training acc. EASA Part-66.B.130

Date fo Revision			*Name of organisation* **EASA AT.145.XXX**								**Name of course or course code**		
ATA	Description of training chapter	Training **content** (task, group of tasks, system, subsystem or component to be trainined)	Identifying and **justifying** the specific elements constituting the training course								**Duration** foreseen based on overall justification of constituting elements of block 4-11		
			Frequency of the task	Human factor issues associated to the task	Difficulty of the task	Criticallity and safety impact of the task	In-service experience	Novel or unusual design features (not covered by Part-66 Appendix I)	Similarities with other aircraft types	Special tests and tools/equipment	Number of hours theoretical element	Methods applied	Remarks and coments
Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12	Block 13	Block 14
5	Time limits/maintenance checks	*EXAMPLE* *General description of the manual* *Definitions* *Scheduled inspections* *Special inspections* *Conditional inspections* *Component overhaul*											
6	Dimensions/areas (MTOM, etc)												
7	Lifting and shoring												
8	Levelling and weighing												
9	Towing and taxiing												
10	Parking/mooring, storing and return to service												
11	Placards and markings												
12	Servicing												
20	Standard practices - only type particular												
Helicopters													
18	Vibration and noise analysis (blade tracking)												
60	Standard practices rotor - only type specific												
62	Rotors												
62A	Rotors - monitoring and indicating												
63A	Rotor drives - monitoring and indicating												
64	Tail rotor												
64A	Tail rotor - monitoring and indicating												
65	Tail rotor drive												
65A	Tail rotor drive - monitoring and indicating												
66	Folding blades/pylon												
67	Rotors flight control												
53	Airframe structure (helicopter) note: covered under airframe structures												
25	Emergency flotation equipment												
Airframe structures													
51	Standard practices and structures (damage classification, assessment and repair)												
53	Fuselage												

54	Nacelles/pylons												
55	Stabilisers												
56	Windows												
57	Wings												
27A	Flight control surfaces (all)												
52	Doors												
Zonal & station identification systems													
Airframe systems													
21	Air conditioning												
21A	Air supply												
21B	Pressurisation												
21C	Safety and warning devices												
22	Autoflight												
23	Communications												
24	Electrical power												
25	Equipment & furnishings												
25A	Electronic equipment including emergency equipment												
26	Fire protection												
27	Flight controls												
27A	Sys. operation: Electrical/Fly-by-Wire												
28	Fuel systems												
28A	Fuel systems - monitoring and indicating												
29	Hydraulic power												
29A	Hydraulic power - monitoring and indicating												
30	Ice & rain protection												
31	Indicating/recording systems												
31A	Instrument systems												
32	Landing gear												
32A	Landing gear - monitoring and indicating												
33	Lights												
34	Navigation												
25	Oxygen												
26	Pneumatic												
36A	Pneumatic - monitoring and indicating												
37	Vacuum												
38	Water/waste												
41	Water ballast												
42	Integrated modular avionics												
44	Cabin systems												
45	On-board maintenance system (or covered in 31)												
46	Information systems												
50	Cargo and accessory compartments												
Turbine engine													
70	Standard practices - engines												
70A	Constructional arrangement and operation (installation inlet, compressors, combustion section, turbine section, bearings and seals, lubrication systems)												
70B	Engine performance												
71	Powerplant												
72	Engine turbine/turbo prop/ ducted fan/unducted fan												
73	Engine fuel and control												
75	Air												
76	Engine controls												

78	Exhaust												
79	Oil												
80	Starting												
82	Water injection												
83	Accessory gear boxes												
84	Propulsion augmentation												
73A	FADEC												
74	Ignition												
77	Engine indicating systems												
49	Auxiliary power units (APUs)												
Piston engine													
70	Standard practices - engines												
70A	Constructional arrangement and operation (installation, carburettors, fuel injection systems, induction, exhaust and cooling systems, supercharging/turbocharging, lubrication systems).												
70B	Engine performance												
71	Powerplant												
73	Engine fuel and control												
76	Engine control												
80	Oil												
81	Starting												
82	Turbines												
83	Water injection												
84	Propulsion augmentation												
73A	FADEC												
74	Ignition												
77	Engine indication systems												
Propellers													
60A	Standard practices - propeller												
61	Propellers/propulsion												
61A	Propeller construction												
61B	Propeller pitch control												
61C	Propeller synchronising												
61D	Propeller electronic control												
61E	Propeller ice protection												
61F	Propeller maintenance												
											Total duration for the theoretical element		

This training needs analysis for the theoretical element of the ____(A/C Type designation)_____ course was performed by :

_____	_____	_____
__	_	____
(Name of the responsible person)	(date)	(signatur)