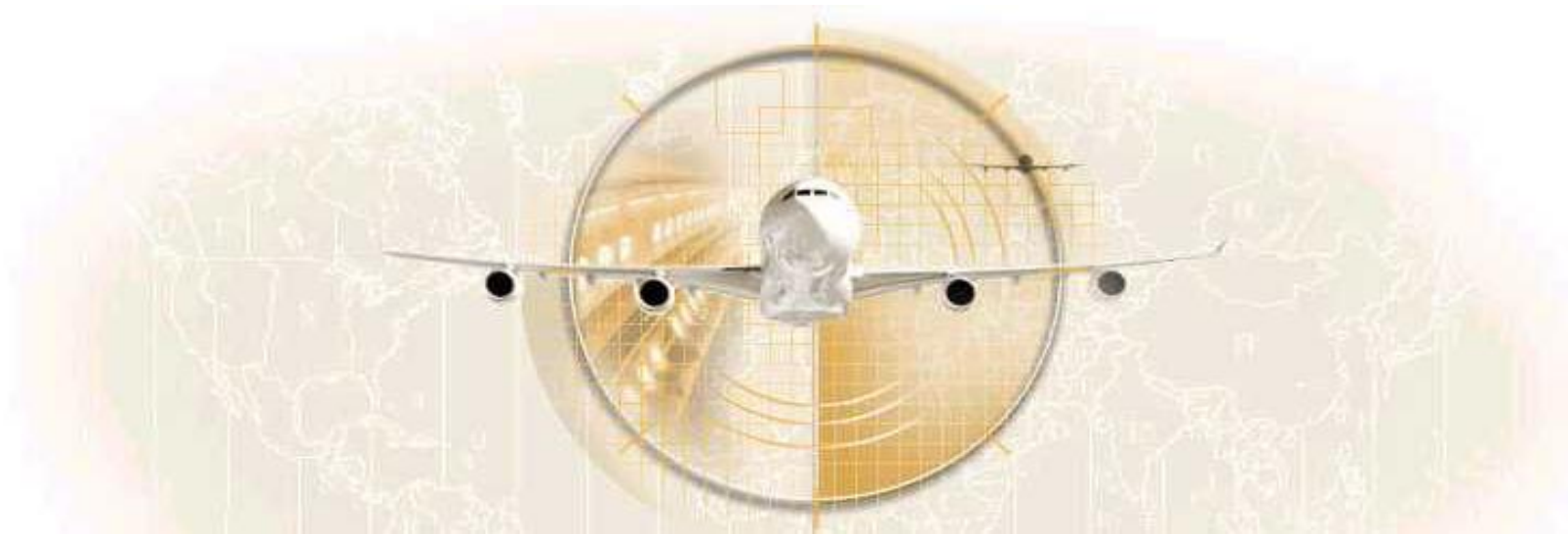




Part-147 « Ab-initio » TRAINING ORGANISATION



March 2009



Presentation Content

Two Chapters:

- **1.Context: Presentation of EASA regulation requirements,**
- **2.Proposal: Presentation of Aerogates solution.**



1. Context - Background

Regulation (EC) N° 2042/2003 of 20 November 2003
on the continuing airworthiness of aircraft and aeronautical products,
parts and appliances and on the approval of organisations and
personnel involved in these tasks

- Continuing airworthiness: **Annex I - Part M**
- Maintenance organisation approval: **Annex II – Part 145**
- Certifying staff: **Annex III – Part 66**
- Training Organisation approval - certifying staff: **Annex IV - Part 147**



1. Context – Part-147 Organisations

- **Only those training organisations can deliver AML, which are described in EASA Annex 4 Part-147 “Maintenance Training Organization Approvals”.**

- **Part-147 describes the requirements to be met by organisations seeking approval to conduct training and examinations.**

- **Part-147 directives are dealing with the following requirements:**
 - **Facility**
 - **Personnel**
 - **Instructional equipment and courses**
 - **Training procedures and quality system**
 - **Examinations.**



1. Context – Part-147 Approval Ratings

- **Part-147 organization can be a training & examination centre,**
- **Part-147 can NOT be an EXAMINATION centre ONLY.**



1. Context – Part-66 Aircraft Maintenance Licences

Certifying Staff authorised in accordance with Part-66 will be eligible to hold certification authorisation in one or more of the following categories:

- **Cat A (Line Maintenance Certifying Mechanic)**
- **Cat B1 (Maintenance Certifying Technician - Mechanical)**
- **Cat B2 (Maintenance Certifying Technician - Avionic)**
- **Cat C (Base Maintenance Certifying Engineer)**



1. Context – Training requirements

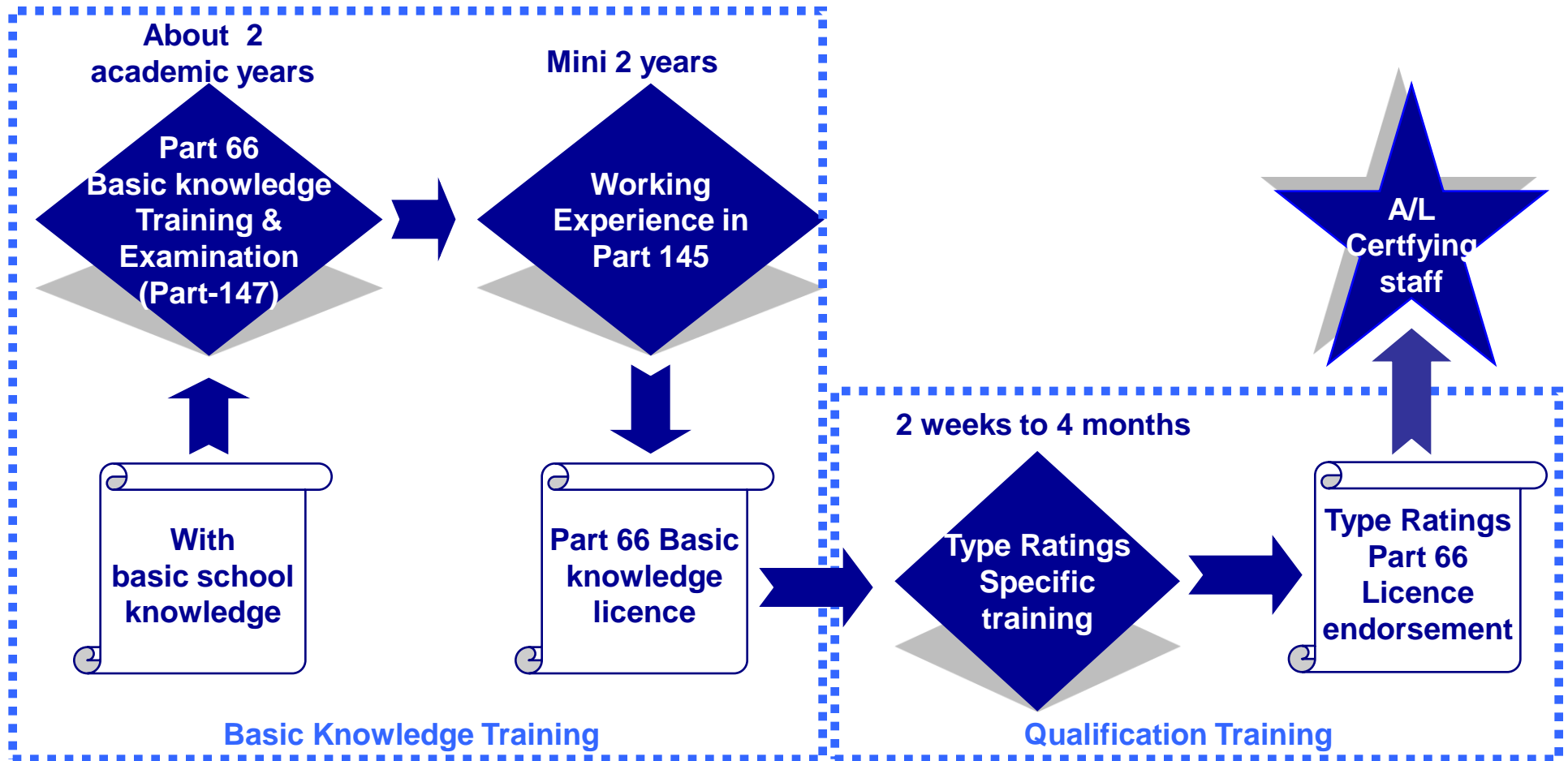
Typical training hours volume for people without ANY experience:

Category	Training Hours	Theoretical part, %	Partitioning example theory / practice, hours
A	800	30 à 40 %	320 / 480
B1, B2	2400	50 à 60 %	1200 / 1400

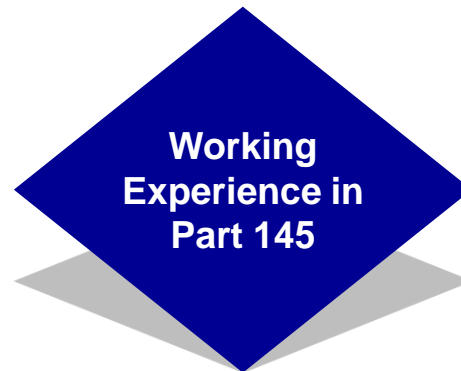
- A, B1, B2 licences must be validated within maximum 5 years of training.
- All training content is split into 17 modules.
- All modules must be validated in order to obtain licence.
- Sequencing and contents of modules depends on category (A, B1, B2) and/or aircraft (aeroplane/helicopter, turbine/piston engine).



1. Context – Part-66 certifying staff course



1. Context – Part-66 - Experience in Part-145



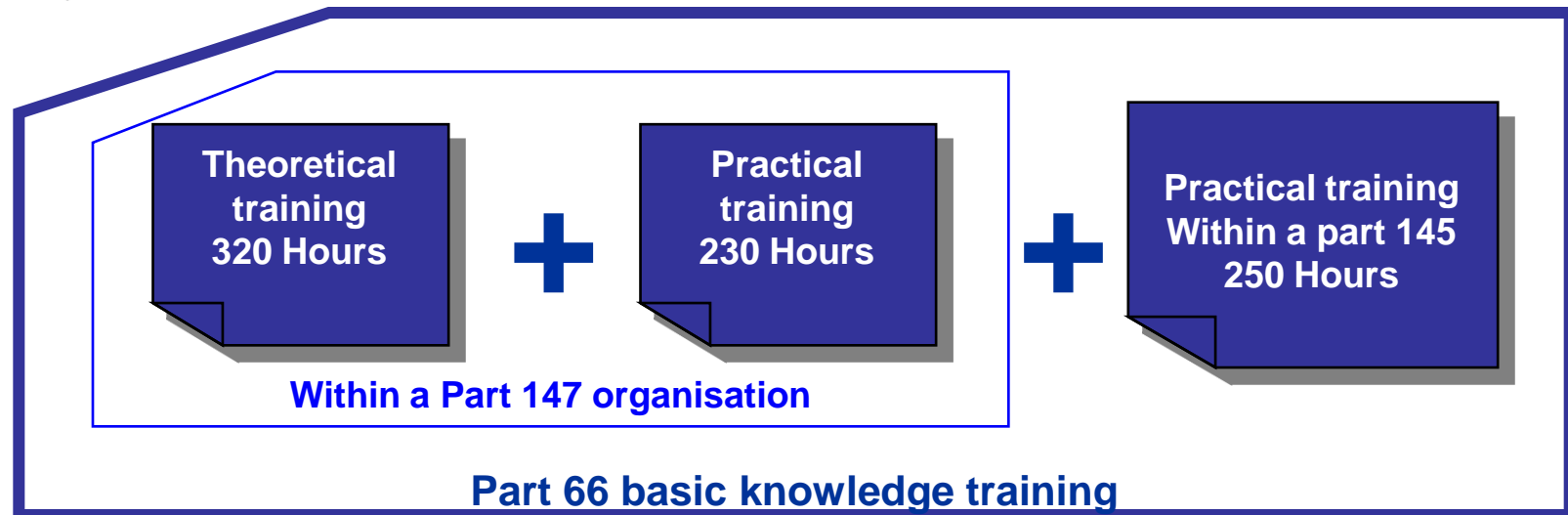
- **A working experience must be acquired in Part-145 approved MRO before being trained for Aircraft Type Ratings.**
- **It represents 1 year for category A and 2 years for categories B1 & B2.**



2. Proposal – Part-66 basic training – Cat. A

Part 66
Basic knowledge
Training &
Examination
(Part-147)

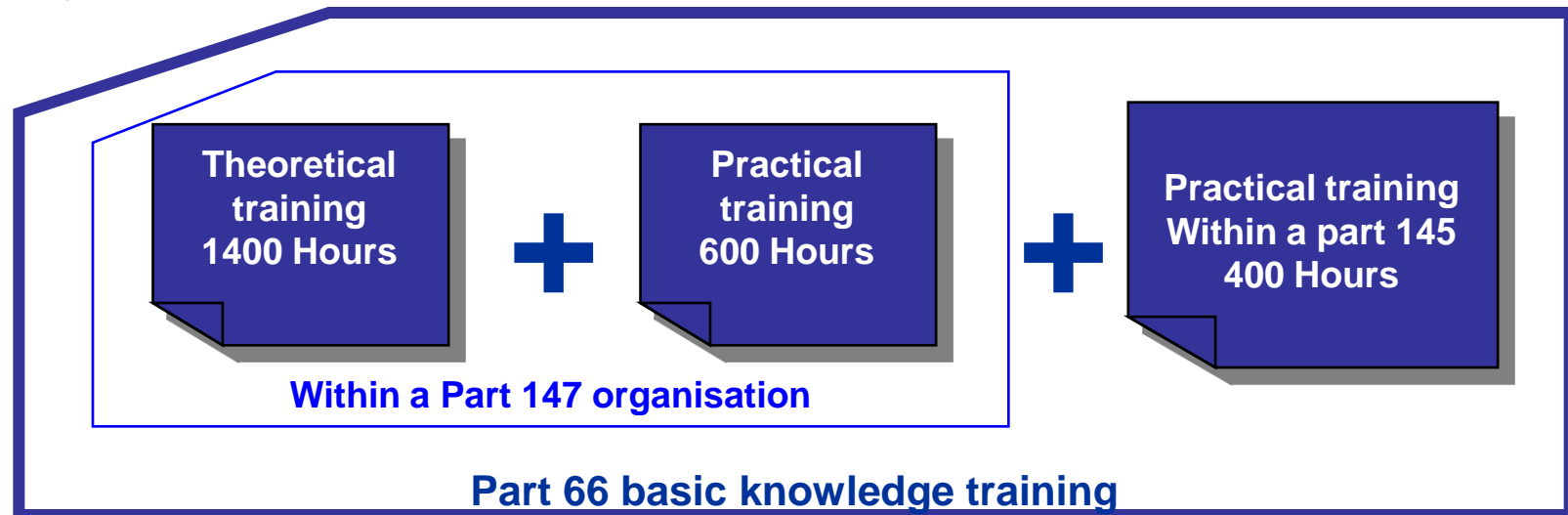
Part 66 Basic knowledge training for Cat. A is composed of Level 1 or 2 lessons according to modules.
It represents about 27 weeks duration.



2. Proposal – Part-66 basic training – Cat. B1/B2

Part 66
Basic knowledge
Training &
Examination
(Part-147)

Part 66 Basic knowledge training for Cat. B1/B2 is composed of Level 1, 2 or 3 lessons according to modules.
It represents about 83 weeks duration.



Licence is delivered if 75% pass mark.

2. Proposal – Part-66 modules breakdown

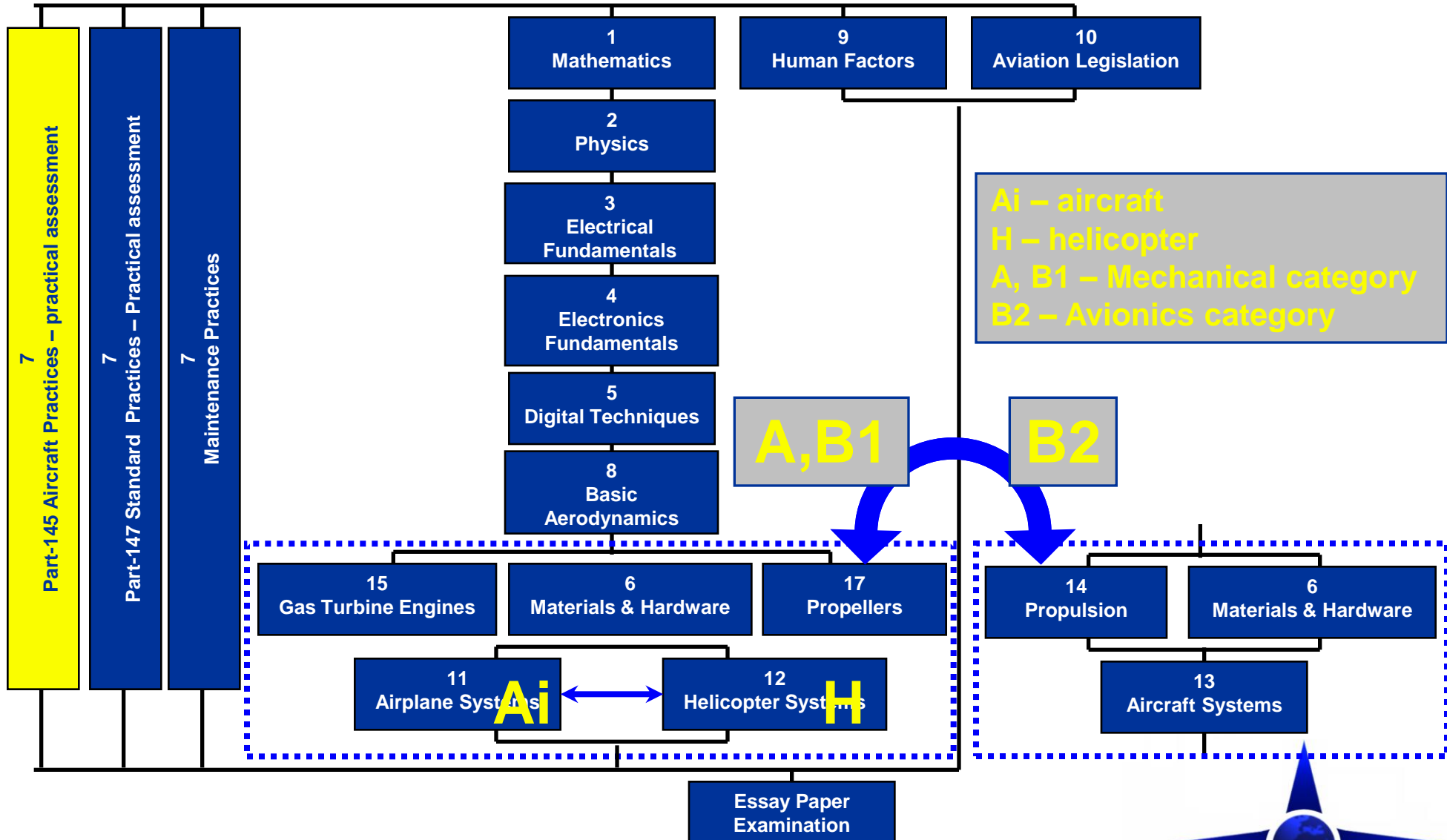
**Part 66
Basic knowledge
Training &
Examination
(Part-147)**

Course hours breakdown

	A	B1	B2
Module 01 Mathematics			
Module 02 Physics			
Module 03 Electrical			
Module 04 Electronics			
Module 05 Digital Techniques			
Module 06 Materials and Hardware			
Module 07 Maintenance Practices			
Module 08 Basic Aerodynamics			
Module 09 Human Factors			
Module 10 Aviation Legislation			
Module 11 Aircraft Systems (B1)			
Module 13 Aircraft Systems (B2)			
Module 14 Propulsion			
Module 15 Gas Turbine Engine			
Module 17 Propellers			
TOTAL PER CATEGORY	800	2400	2400



2. Proposal – Part-66 modules breakdown



2. Proposal – Training program hypothesis

**24
Trainees/Class**

B1 or B2



TWO YEARS TRAINING			
30 hours/week in Part-147			
40 hours/week in Part-145			
Off period between Year 1 & Year 2 + intermediate off periods within each year			
YEAR 1		YEAR 2	
34 weeks in Part-147	7 weeks in Part-145	26 weeks in Part-147	12 weeks in Part-145



2. Proposal – Year 1 Training program (B1/B2)

Table here below is giving the course program flow of Year 1.

Period 1.1 16 weeks			Period 1.2 16 weeks		Period 1.3 9 weeks	
Within part 147	Within part 145	O F F P E R I O D	Within part 147	Within part 145	Within part 147	O F F P E R I O D
Theory Modules 1, 2, 3, 7	Practice on aircraft + assessment		Theory Modules 4, 5, 8, 7, 10, 11 or 13	Practice on aircraft + assessment	Theory Modules 6, 5, 7, 9, 11 or 13	
Partial examination			Partial examination		Partial examination	
Standard Practices + Practical assessment			Standard Practices + assessment		Standard Practices + assessment	



2. Proposal – Year 2 Training program (B1/B2)

Table here below is giving the course program flow of Year 2.

Period 2.1 16 weeks			Period 2.2 17 weeks		Period 2.3 5 weeks	T R A I N I N G E N D	
Within part 147	Within part 145	O F F P E R I O D	Within part 147	Within part 145	Within part 147		
Theory Modules 6, 7, 11 or 13, 17	Practice on aircraft + assessment		Theory Modules 7, 11 or 13, 14 or 15	Practice on aircraft + assessment	Theory Modules 7		
Partial examination			Partial examination		Practice on aircraft + assessment		Partial examin.
Standard Practices + Practical assessment			Standard Practices + assessment		Standard Practices + assessment		Standard Practices + assessment



2. Proposal – Conclusion

- **Aerogates has gathered a team of experts, having a large individual experience of the aeronautic industry and the EASA Part-145/Part-147/Part-66 approvals, and is able to offer a complete support for development and certification Part-147 organization.**



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END

