

EMBRAER

EMB

135

145

RR Corp AE3007A

Aircraft Type Training Course Syllabus

Embraer EMB-135/145 (RR Corp AE3007A)

T1+T2 Combined / Initial

Course - EASA Part-66 B1+B2 - Theoretical
Course - EASA Part-66 B1+B2 - Practical



► GENERAL

AIRCRAFT TYPE RATING Endorsement:	Embraer EMB-135/145 (RR Corp AE3007A)	
AIRCRAFT MODELS:	EMB-135BJ, EMB-135ER, EMB-135LR, EMB-145, EMB-145EP, EMB-145ER, EMB-145EU, EMB-145LR, EMB-145LU, EMB-145MK, EMB-145MP	
COURSE CODE:	I-19-07-E45-03	
DESCRIPTION:	This course is in compliance with EASA Part-66, Appendix III "Type Training and Examination Standard". The participant will acquire knowledge necessary to perform and certify maintenance tasks permitted to be carried out as certifying staff of the specified category stated in the course title. It provides detailed description, operation, component location, removal/installation, BITE and troubleshooting procedures to a maintenance manual level.	
DURATION:	THEORETICAL: 22 days / 132 hours	PRACTICAL: optimum time: 6 days
NUMBER OF PARTICIPANTS:	Max: 28 (per Instructor/Examiner or Invigilator)	Max: 15 students (per Instructor/Assessor, divided in several training groups)
TARGET GROUP:	Technical personnel associated with aircraft maintenance or engineering activities and Part-66 Category B1 & B2: Line and Base Maintenance Technician - mechanical & avionics.	
PREREQUISITES:	Basic technical English and basic technical aircraft knowledge or Category A license.	
PARTICIPATION TIME:	The minimum participation time for the trainee to meet the objectives of the course should not be less than 90% of the tuition hours of the theoretical training course. If the minimum participation time is not met, a certificate of recognition should not be issued.	



► COURSE Theoretical

OBJECTIVES:
(Theoretical)

EASA Level 1 (General Familiarisation)

A brief overview of the airplane, systems and powerplant as outlined in the Systems Description Section of the Aircraft Maintenance Manual.

EASA Level 2 (Ramp and Transit)

Basic system overview of controls, indicators, principal components including their location and purpose, servicing and minor trouble shooting.

EASA Level 3 (Line and Base Maintenance)

Detailed description, operation, component location, removal/installation BITE and troubleshooting procedures to maintenance manual level.

THEORETICAL
Instructor(s):

TBC (language: ENGLISH / Spanish)

PLACE:

Benslimane / MOROCCO

START-END DATE
(Theoretical Course):

15.JUL – 08.AUG.2019



► **COURSE SCHEDULE - Theoretical** (six (6) days a week)

WEEK 1		15.JUL - 20.JUL.2019			WEEK 2		22.JUL - 27.JUL.2019			WEEK 3		29.JUL - 03.AUG.2019				
Phase	D	ATA CHAPTER (Hrs.)	Lvl.	Hrs.	Phase	D	ATA CHAPTER (Hrs.)	Lvl.	Hrs.	Phase	D	ATA CHAPTER (Hrs.)	Lvl.	Hrs.		
	Phase 1	1	ATA 05-12 Introduction (1) Aircraft general (1)	1		6	Phase 2	1	ATA 22 (6)		3	6	Phase 3	1	ATA 74 (1) ATA 80 (1) ATA 26 (4)	3
ATA 51, 53-57 a/c structures & Zone identification (2) ATA 56 (1) ATA 25 (1)			3	Phase 3 - EXAM					30							
2		ATA 31 (6)	3	6	2	2		ATA 23 (2) ATA 45 (4)	3	6	2	2		ATA 36 (5) ATA 21 (1)	3	6
Phase 1 - EXAM			24	Phase 4 - EXAM				24								
3		ATA 24 (6)	3	6	Phase 3	3		ATA 28 (6)	3	6	Phase 4	3		ATA 21 (6)	3	6
4	ATA 24 (3) ATA 33 (3)	3	6	4		4	ATA 49 (5) ATA 71 (1)	3	6	4		4	ATA 21 (3) ATA 30 (3)	3	6	
	Phase 1 - EXAM						24	Phase 4 - EXAM					24			
Phase 2	5	ATA 34 (6)	3	6	5	ATA 72 (1) ATA 77 (1) ATA 76 (1) ATA 73 (3)	3	6	5	5	ATA 30 (2) ATA 38 (1) ATA 35 (3)	3	6			
	6	ATA 34 (6)	3	6		6	6	ATA 75 (1) ATA 79 (2) ATA 78 (3)			3	6	P.5	6	ATA 29 (6)	3



WEEK 4

05.AUG - 08.AUG.2019

Phase 5	D	ATA CHAPTER (Hrs.)	Lvl.	Hrs.
	1	ATA 52 (4) ATA 27 (2)	3	6
	2	ATA 27 (6)	3	6
	3	ATA 27 (6)	3	6
	4	ATA 32 (6)	3	6
Phase 5 - EXAM				30
Total (Hrs.) = 132				

EXAMINATIONS:
(Theoretical)

Phase examination, closed book, multiple-choice examination type.
Pass mark per phase examination is **75%**

► **COURSE Practical**

OBJECTIVES:
(Practical)

Upon completion of the course, the participant will be able to:

- Apply the relevant safety precautions
- Identify and apply aircraft technical documentation
- Name, identify and locate aircraft system components
- Perform normal operation of aircraft systems
- Perform the servicing and ground handling
- Perform inspections and routine work
- Perform system functional/operational and on-board maintenance system supported tests
- Awareness for the use of special tooling and test equipment
- Perform rigging and adjustments
- Carry out routine through visual inspections
- Describe component removal/installation procedures unique to the aircraft type
- Determine aircraft airworthiness in accordance with MEL/CDL, and explain maintenance procedures according to the minimum equipment list (MEL)
- Correlate information for the purpose of making decisions in respect to fault diagnosis and rectification.

PRACTICAL
Instructor(s)/ Assessor(s):

TBC (language: ENGLISH / Spanish)

PLACE:

Benslimane / MOROCCO

START-END DATE
(Practical & Assessment):

09.AUG – 15.AUG.2019

► **COURSE SCHEDULE - Practical**

START:		09.AUG.2019	END:		15.AUG.2019	
TASK TYPE		TRAINING EQUIPMENT		NO. OF TASKS		
				Airframe	Engine	Avionics
LOC	Location	Aircraft / Simulator / Classroom		104	40	30
FOT	Functional / Operational Test	Aircraft / Simulator / Classroom		22	9	6
SGH	Service & Ground Handling	Aircraft / Simulator / Classroom		22	4	6
R/I	Removal / Installation	Aircraft / Simulator / Classroom		16	3	6
MEL	Minimum Equipment List	MEL / Classroom		15	4	6
TS	Trouble Shooting	Aircraft / Simulator / Classroom		18	7	6
REF: A - Aircraft S - Simulator C - Classroom		Total Tasks		197	67	60
				324		

ASSESSMENTS	√	PRACTICAL TRAINING DURATION
Assessment 1 - Airframe	1	Optimum time: 6 days
Assessment 2 - Engine	1	
Assessment 3 - Avionics	1	
Assessment Review	1	

DESIRABLE TASKS

TASK TYPE		TRAINING EQUIPMENT	NO. OF TASKS		
			AIRFRAME	ENGINE	AVIONICS
LOC	Location	Aircraft	3	2	1
FOT	Functional / Operational Test	Aircraft / Simulator / Classroom	8	3	3
SGH	Service & Ground Handling	Aircraft / Simulator / Classroom	4	0	0
REF: A - Aircraft S - Simulator C - Classroom		TOTAL TASKS	15	5	4
			24		

ASSESSMENTS: (Practical)

The practical training assessment will be performed after completion of at least **50%** of the mandatory tasks, divided in **3** different scenarios (Engine/Propeller, Airframe and Avionics).

Practical assessment will be conducted and assigned as "**passed**" or "**not passed**".

Practical training will be documented in the Practical Handbook (PH).

TRAINING MATERIAL: (for each student)

(DC) Digital Copy:

- Maintenance Training Manual (**AGT-MTM-E45**) (pdf);
- Aircraft Maintenance Documentation - samples (pdf);
- Cockpit and panels layout (print ready);

(HC) Hard Copy:

- Course Syllabus and Schedule
- Training Handbook
- Systems schematics
- Practical Handbook (**AGT-TPP-E45**)



HARDWARE:

In addition to AGT training presentation equipment, it is recommended each student to be equipped with notebook or similar portable electronic device capable to support **pdf** format reading software, in order to successfully read and review the content of training course material.

SOFTWARE:

Any available program supporting **pdf** format.
Recommended: Adobe Acrobat Reader