



Aircraft Flight Operations and Maintenance

Introduction: 26.02.2024

Aircraft Flight Operations and Maintenance : course highlights



This course introduces the basic principles of aircraft flight operations and maintenance. It provide aspiring aviation leaders with the basic elements of management of the civil aviation industry.

The students will gain skills to understand how to make the organizational structures compliant with applicable regulation but also the which are the current best practices to achieve a safe and profitable aircraft operations and to cope with future management challenges.

This course is divided in three parts:

- Course introduction (Giovanni Simonetti/Marco Rosati TBC)
- Aircraft flight operations (Marco ROSATI)
- Aircraft maintenance management (Giovanni SIMONETTI)

The course will be a combination of theory and practical exercises to be done in groups, the assessment of the exam will be 50% done on your exercises and the other 50% by multiple choice questions exam.

For those who have not attended and conducted the exercises in addition to multiple choice questions will have 3 open-ended questions for each module.

Aircraft Flight Operations and Maintenance : Course introductory part



Aircraft flight operation and maintenance 1st week (course introduction)		
Date	Time	Subject
Monday, Feb. 26th	17:00	Course introduction, schedule and targets
Monday, Feb. 26th	18:00	Working groups creation and presentation
Monday, Feb. 26th	19:00	Introduction to the Civil Aviation Sector (exercise preparation)
Friday, March 1st	16:00	Introduction to the Civil Aviation Sector (exercise delivery)
Friday, March 1st	17:00	Exercise on ICAO (exercise preparation)

Aircraft Flight Operations Module (Prof Marco ROSATI)



lunedì 4 marzo 2024	0,25	#	10	17:00		Introduction	MR	The role of Higher Education
lunedì 4 marzo 2024	2,25	#	90			The Civil Aviation System	MR	Aviation Regulation Overview - ICAO EASA
lunedì 4 marzo 2024	0,5	#	45			The Civil Aviation System	MR	ECAC IATA ENAV EUROCONTROL ANSV
venerdì 8 marzo 2024	1,25	#	45	16:00		The Civil Aviation System	MR	Panoramica dell'aviazione civile attraverso il ciclo di vita dell'aeromobile.
venerdì 8 marzo 2024	0,5	#	45			The Civil Aviation System	MR	Overview of State Aircraft regulation
venerdì 8 marzo 2024	0,25	#	10			Air Operator organization exercise	MR	exercise PREPARATION - Operazioni in details - AIRCRAFT DISPATCH PROCESS - Aircraft Technical Log
lunedì 11 marzo 2024	1,25	#	45	17:00		Air Operator organization exercise	MR	exercise DELIVERY - Operazioni in details - AIRCRAFT DISPATCH PROCESS - Aircraft Technical Log
lunedì 11 marzo 2024	0,75	#	30			Air Operator organization	MR	M.A. 306 - Aircraft Technical Log
lunedì 11 marzo 2024	1	#	35			Air Operator typeS -Business Aviation	MR	Descrizione dell'industria della business Aviation: Facts & figures
venerdì 15 marzo 2024	1	#	0	16:00		Introduction to the Civil Aviation Sector	MR	Interfaccia OPS/OEM - GULFSTREAM - LOW VISIBILITY?
venerdì 15 marzo 2024	1	#	0			Introduction to the Civil Aviation Sector	MR	Interfaccia OPS/OEM - GULFSTREAM - FLIGHT TEST?
lunedì 18 marzo 2024	1	#	15	17:00		Air Operator organization	MR	AIR OPS REGULATION Structure (965/2012)
lunedì 18 marzo 2024	1,7	#	80			Air Operator organization	MR	Illustrazione delle funzioni organizzative di un operatore BizAv
lunedì 18 marzo 2024	0,3	#	10			Air Operator organization exercise	MR	exercise preparation - Operazioni in details - Safety&Quality
venerdì 22 marzo 2024	2	#	##	16:00		Air Operator organization exercise	MR	exercise delivery - Operazioni in details - Safety&Quality
lunedì 25 marzo 2024	1	#	25	17:00		Air Operator organization	MR	Safety&Quality
lunedì 25 marzo 2024	0,5	#	35			Air Operator organization	MR	Regulation evolution: CBRvsPBE
lunedì 25 marzo 2024	1,5	#	45			SMS in Operations		Regulation & Best Practice
venerdì 5 aprile 2024	1	#	45	18:00		Airport Operations Management	MR	
venerdì 5 aprile 2024	1	#	45			Airport Operations Management	MR	
lunedì 8 aprile 2024	1	#	45	17:00		Flight performance	MR	Elementi di Mass & Balance
lunedì 8 aprile 2024	1	#	45			Flight performance	MR	Fuel management - Fuel/Energy Schem
lunedì 8 aprile 2024	1	#	45			Flight Planning	MR	Flight Dispatch Operations
venerdì 12 aprile 2024	1	#	10	16:00		SMS in Operations		communications
venerdì 12 aprile 2024	1	#	45			Flight planning (exercise preparation)	MR	
lunedì 15 aprile 2024	2	#	90	17:00		Flight planning (exercise delivery)	MR	
venerdì 19 aprile 2024	0	#	10			SMS in Operations- replaced by exercise		how to carry out Risk Assessment
venerdì 19 aprile 2024	0	#	45			OPERATORS OUTLOOK TBD		

Aircraft Maintenance Module (Prof. Giovanni SIMONETTI)



lundi 22 avril 2024	17:00	Maintenance introduction part 1	GS
lundi 22 avril 2024		A350 maintenance program exercise (preparation)	GS
vendredi 26 avril 2024		Ponte	
lundi 29 avril 2024	17:00	A350 maintenance program delivery	GS
lundi 29 avril 2024		Maintenance introduction part 1	GS
lundi 29 avril 2024		Maintenance introduction part 2	GS
vendredi 3 mai 2024	16:00	Flat Tire occurrence management exercise preparation	GS
lundi 6 mai 2024	17:00	Flat Tire occurrence management exercise delivery	GS
lundi 6 mai 2024		A320 Maintenance budget first part (preparation)	GS
vendredi 10 mai 2024	16:00	A320 Maintenance budget first part (delivery)	GS
lundi 13 mai 2024	17:00	Continuing Airworthiness Management Organization (CAMO)	M. Crucitti
lundi 13 mai 2024		Maintenance, Repair and Overhaul (MRO) Organization	M. Crucitti
vendredi 17 mai 2024	16:00	Maintenance check pillars video and exercise (preparation)	GS
lundi 20 mai 2024	17:00	Maintenance check pillars exercise (delivery)	GS
lundi 20 mai 2024		A320 Maintenance budget second part (preparation)	GS
lundi 20 mai 2024		A320 Maintenance budget second part (delivery)	GS
vendredi 24 mai 2024	16:00	A320 Maintenance budget third part (preparation)	GS
vendredi 24 mai 2024		A320 Maintenance budget third part (delivery)	GS
lundi 27 mai 2024	17:00	A320 Maintenance budget final (delivery)	GS