Flight Training
ALLIANCE

A220

A220 Dispatcher Transition

Course Introduction

Well-trained flight dispatchers are responsible for ensuring an airline's commercial success by overseeing smooth, safe, economical and punctual flight operations. The flight dispatcher course provides the knowledge and skills required for A220-specific dispatch of the aircraft, including general aircraft system knowledge, use of MEL/CDL/performance calculations and weight and balance operations.

This course is based on instructor-led, on-site training, comprising typical classroom lessons with presentations of the instructor. The course is designed as conversion training and requires flight dispatchers with completed initial training.

Training Concept	Learning objectives, methods and examination
Ops Engineering	Definition of tasks and responsibilities
	Development of procedures and standards
	Requirements for Data-Base, Application and Interface
	Documentation and QM
	Aircraft Models: Airbus A220-200 and A220-300 (BD-500)
	3 days classroom training with a Qualified Instructor.

Aircraft Limitations and Operational

Masses	MTOM, MLM, MZFM, MTM
Environmental Limitations	OAT, CWC/HWC, Elevation, Altitudes, Latitude
RWY	Minimum Width for TKOS&LDG, Lineup, Turn
Operational Aspects	Minimum Turn Around Times
	Tankering and Break Even
	Push Back Procedures
	Handling Limtations

Documents

AOC-requirements	Responsibility
	Operation Manuals, Specific Manuals
	Handling, Amendment, Application
Certificates and documents	Insurance, airworthiness, liability, noise
OM-A (FOM)	Responsibility and content
	Operational procedures
	Specific Regulations for A220
OM-B (AOM)	FCOM/AFM/FPPM/MMEL
	SOP's

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Take Off Performance

T/O distances and lenght	TORA, ASDA, TODA Clearway, Stopway
T/O flight path	T/O segments and AFP, NFP climb gradients
Speeds	VMCG, VEF, V1, VR, V2 Balanced V1
Power Setting	Reduced T/O power, Climb power, MCT, Flex Temp
A/C configuration and system settings	Flaps, Gear Packs, WAI, NAI
Limitation	Field lenght, Brake, Tire, Obstacle, Climb
Factors of influence	PA, OAT, Wind, RWY condition

Airport Selection Criteria

RFFS	OM-A Min., ICAO-Min.
Pavement strength	ACN/PCN LCN GW-Calculation, factors of influence
Instrument Approach	NAV-aids and procedures ILS Categorys Non Precission Landing-/Planning Minima
Crew Qualification	License, Allowance Training concepts, Documentation

Aircraft Systems and Engines

OM-B (AOM) documentation	System Discription Limitations Graphs and tables Use of the MEL-CDL	
Aircraft systems	Air conditioning	ACM, Pressure Control
	Auto Flight	A/P and FD, AWO
	Ice and Rain Protection	WAI, NAI, TAT-probe, Window heat
	Landing Gear	Brakes, Wheels, Anti Skid
	Navigation	Speed indication, GPWS, TCAS, FMS, RVSM, MNPS
	Oxygen	Crew- Passenger Oxygen
	Pneumatic	Eng- APU bleed, HP bleed
	APU	Power source, APU cold start
	Engine	Fuel, Ignition, Bleed Air, Indicating, Exhaust
	Flight Controls	Primary, secondary flt ctrl, Yaw damper
	Fuel	Re-/defuelling, tanks, pumps, filter, fueltemp
Exercise MEL/CDL		

Cruise Performance

Basic aerodynamics	Thrust, drag, weight, lift, AoA
Definitions	Endurance, Specific Range, Maximum Range
Speeds	MRC, LRC, ECON Cruise, Fixed speed, VMO Speed selection criteria
Altitudes	Optimum, Maximum, Trading factor

Landing Performance

Landing distances	RLD, ALD, Factoring
Inflight limitations	Approach climb weight Landing climb weight
Factors of influence	Dry, wet, contamination, OAT, PA Speed, Landing, Mass, Slope Configuration and MEL/CDL-items

Flightplanning

Fuel policiy and the criteria	Reclearance procedure Pre-determined point procedure Alternate fuel Final reserve Trip fuel Contingency fuel and options Tankering

	Operational Limitations	WX-minima for T/O, Landing, Planning minima Crew qualification Aircraft certification and status Airport facilities, Precision-, Non-precision approaches
	HF inop, LRNS inop	
	Direct operating costs	Variable and fixed costs Time costs Cost index- versus fixed speed operation
	Configuration and MEL/CDL-itmes	
Mass and Balance Refresher in View of Flight planning	Definitions of mass/weight Mass limits	TOM, LM, DOM, Load, ZFM, TOF, TF MTOM, MLM, MZFM
	Center of Gravity	Definition and Calculation Index and operational envelope
	Allowed Traffic Load Exercise	Examples on LS of A220
Special Performance	One Engine Out, Drift Down Decompression Gear down	