

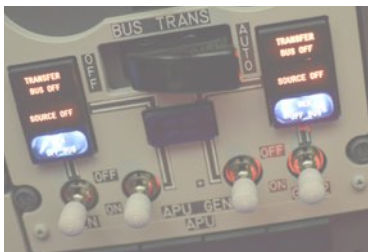
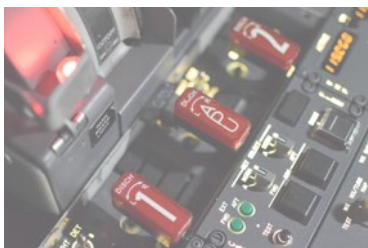


Jet Orientation Course

Course Syllabus

Course Structure

Day	SFT	Briefing	Time	
1	1	Airport / Runway: EGSS 22 <ul style="list-style-type: none"> • Take-off, flap retraction and level-off • Take-off, flap retraction and level-off. Radar vectors downwind • Use (and misuses) of rudder in a jet aircraft • Speed increase and speed decrease • Climb at given rate • Steep turns • Low altitude stall • Scenario: ATC change plan whilst flying manual thrust leading to low altitude stall • Descent management • Radar vectors, raw data (visual) to land 	2:00	
	SHORT BREAK			
	2	<ul style="list-style-type: none"> • Explore how little excess thrust is available • High altitude stall • High altitude stall - investigation of secondary stall • UPRT - investigate high and low nose attitude upsets with and without bank • Awareness of coffin corner • Very short handling raw data demonstrating why manual flying is not allowed in RVSM airspace • MMO/VMO overspeed • Expediting climb/descent • Downwind then vectors (IMC) • ATC offers short cuts • ILS approach with go around 	2:00	
2	3	Airport / Runway: LFMN 04R <ul style="list-style-type: none"> • Take-off, flap retraction and level-off • WX thunderstorm avoidance • Terrain escape • Descent management • NDB approach to land 	2:00	
	SHORT BREAK			
	4	Airport / Runway: EHAM 27 <ul style="list-style-type: none"> • Rejected take-offs: Normal and low visibility (400m) • ASI failure • Engine failures: After V1 • Vectors single engine, ILS to go around • Single engine, ILS to land • Demo: CAT III A autoland 	2:00	
3	5	Airport / Runway: EDDH 23 <ul style="list-style-type: none"> • Crosswind take-off, flap retraction and level-off • TCAS • ILS and missed approach due to windshear • ILS and/or NDB approach, crosswind landing 	2:00	
	SHORT BREAK			
	6	<ul style="list-style-type: none"> • Take-off, flap retraction and level-off • Dual FMC failure • Blocked pitot • Unreliable airspeed management practise • Time available to spend on any exercises that require attention 	2:00	
TOTAL			12:00	



Training Manual Subjects

PART 1: TRANSITIONING TO JET AIRCRAFT

- Momentum
- Drag
- Winglets
- Excess Thrust
- Swept Wings
- Pitch Power Couple
- Speed Trimming
- Stall
- Leading/Trailing Edge Devices
- Speedbrakes/Spoilers
- Roll Spoilers
- Yaw Damper
- Mach Number
- Mach Tuck
- Coffin Corner
- VMO/MMO
- Operating Altitudes

PART 2: AIRCRAFT SYSTEMS

Air Conditioning & Pressurisation

Auxiliary Power Unit

Electrics

- Essential Bus
- Circuit Breakers

Fire Protection

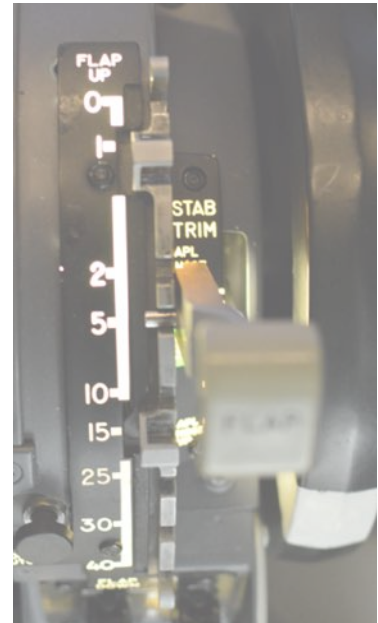
- Cargo Bay
- Wheel Well
- Lavatories

Flight Controls

- Control Column/Wheel
- Stabiliser Trim (Stab Trim)
- Rudder
- Speedbrakes/Spoilers
- Yaw Damper
- Flaps and Slats

Flight Instruments

- Instrumentation
- Primary Flight Display (PFD)
- Navigation Display (ND)
- Engine Indication and Crew Alerting System (EICAS)



Fuel Systems

- Fuel Temperature
- Fuel Filter

Hydraulics

Ice & Rain

- Window Heat
- Probe Heat

Landing Gear & Brakes

- Landing Gear Solenoid Override (B737)
- Landing Gear Components
- Brakes
- Auto-brake Selector
- Brake Fade

Navigation System

- Inertial Reference System
- GPS

Power Plant

- Spool up
- Excess Thrust
- Thrust Vector
- FADEC

Abnormal Engine Conditions

- Engine Stall/Surge
- Engine Failure
- Engine Fire
- Severe Damage

Warning Systems

- Master Caution Panel
- Cabin Altitude
- TCAS
- GPWS
- EGPWS
- Radio Altimeter Call-Outs

Weather Radar

Performance

- Take-off
- Climb Gradient
- Obstacle Clearance
- Reduced Thrust Take-off
- Landing
- Landing Performance
- Missed Approach (Go Around)
- Drift-down