



TO: B737-800 PILOTS

FROM: ROBIN HUGHES, CHIEF PILOT; TRAINING AND STANDARDS

SUBJECT: B737-800 TYPE QUALIFIED/UPGRADE/CONVERSION SIMULATOR COURSE

DATE: Dec 1, 2019

The FAL B737 TypeQual/Upgrade/Conversion Simulator Course is designed to provide a review of the required flight crew procedures and manoeuvres in preparation for an Initial PPC. The outline is 1 FTD either conducted in an IPT or FBS. For those of you conducting this training at CAE YUL it is a FBS. CAE YYZ and PHX have an IPT. You then will conduct 4 FFS and then a PPC. Each session will consist of a comprehensive pre-flight briefing, the simulator session, followed by a thorough debriefing. Additional approaches and maneuvers may be accomplished, if time permits.

Training will be conducted by CAE instructors and in house. CAE instructors have gone through a "Train the Trainers" course conducted by FAL and are current with our procedures. **C-FFLA** is to be used as the reference aircraft for all Performance, QRH and FCOM references. At this time we are training "Dual Que" flight directors with the intent of having FFLA and subsequent aircraft changed to this configuration.

A training reference guide is provided with this cover letter which details the training requirements that will be covered during this training cycle. *Airports utilized during the training are CYVR, CYYC and CYYJ and are available for review on your iPads with the provided JeppFD-Pro App.*

You are ***strongly encouraged*** to review these materials in preparation for your upcoming Course. You are expected to arrive at your scheduled training session fully prepared in order to maximize the value of the simulator training and to ensure that you are successful on your Initial PPC.

Your Simulator Instructor and ACP will be responsible for your transportation to and from the Hotel and simulator facility.

If you have any questions or concerns, please don't hesitate to contact myself or Matt Kunz.

Train as you fly and fly as you train.



BRIEFING GUIDE FTD (IPT or FBS) Session 1A/1B TYPE QUALIFIED/UPGRADE/CONVERSION COURSE		
CYVR		
BRIEFING		
NORMAL PROCEDURES	(a) PRE-FLIGHT	Through Cockpit Set Up Engine Start
	(b) TAKEOFF	RNP Departure
	(c) CLIMB	VNAV
	(d) CRUISE	In-Flight Diversion
	(e) DESCENT	VNAV
	(f) APPROACH	Non-Precision Approach -VNAV (BFCTM) ILS Approach One Engine Inoperative
	(g) LANDING	One Engine Inoperative
	(h) MISSED APPROACH	Normal
	(i) AFTER LANDING	Shutdown Procedure & Checklist Secure Procedure & Checklist
NON-NORMAL	(j) ENGINE	Engine Failure / Shutdown
	(k) COMMUNICATION	Loss After Takeoff
	(l) INSTRUMENTS	F/D Fail FMC Fail Dual FMC Fail GPS Fail IRS Failures
EMERGENCY PROCEDURES	(n) ENGINE	Aborted Engine Start
FMS / AFDS		FMC Route and Performance Entry RNP Departure Setup In-Flight diversion Hold Non-Precision Approach – Vertical Guide

END OF BRIEF



BRIEFING GUIDE FFS 1A/1B TYPE QUALIFIED/UPGRADE/CONVERSION COURSE	
CYYC	
PRE-FLIGHT	
<input type="checkbox"/> REVIEW PRE-FLIGHT <ul style="list-style-type: none"> <input type="checkbox"/> START <input type="checkbox"/> TAXI REQUIREMENTS, Including Brakes and Steering <input type="checkbox"/> APPLICABLE CHECKLISTS 	FCOM
TAKEOFF	
<input type="checkbox"/> REVIEW TAKEOFF AND EMERGENCY BRIEFINGS <input type="checkbox"/> REVIEW TAKEOFF PERFORMANCE <ul style="list-style-type: none"> <input type="checkbox"/> Reduced Thrust; <input type="checkbox"/> Assumed Temp. Method <input type="checkbox"/> Use of TLRs <input type="checkbox"/> REVIEW CROSSWIND TAKEOFFS <ul style="list-style-type: none"> <input type="checkbox"/> Max Demonstrated Component <input type="checkbox"/> REVIEW NADP 1 AND 2	FCOM/BFCTM
CLIMB	
<input type="checkbox"/> REVIEW USE OF AFDS/FGS <ul style="list-style-type: none"> <input type="checkbox"/> Climb Profiles and Modifications <input type="checkbox"/> BRIEF THE CORRECT SOP ON FMA CALLS	FCOM
10,000 FT	
<input type="checkbox"/> BRIEF STEEP TURNS <input type="checkbox"/> STALL RECOVERIES <input type="checkbox"/> UPSET RECOVERIES	FCOM/BFCTM/ QRH
CRUISE	
<input type="checkbox"/> REVIEW USE OF AFDS/FGS <ul style="list-style-type: none"> <input type="checkbox"/> Descent With and Without Speed Brake <input type="checkbox"/> Descent Profiles <input type="checkbox"/> High Speed Descents 	FCOM
CONTINUED NEXT PAGE	



BRIEFING GUIDE FFS 1A/1B TYPE QUALIFIED/UPGRADE/CONVERSION COURSE	
CONTINUED	
APPROACH	
<input type="checkbox"/> BRIEF ILS APPROACH PROCEDURES <input type="checkbox"/> Approach Briefings <input type="checkbox"/> Setting Airspeed and Altimeter Bugs <input type="checkbox"/> VISUAL APPROACH PROCEDURES	FCOM/COM
MISSED APPROACH	
<input type="checkbox"/> BRIEF MISSED APPROACH <input type="checkbox"/> Rejected Landing Procedures <input type="checkbox"/> Low Energy Awareness	FCOM/BFCTM
LANDING	
<input type="checkbox"/> REVIEW CROSSWIND LANDINGS	FCOM/BFCTM
MANOEUVERS	
<input type="checkbox"/> TCAS Indications <input type="checkbox"/> RA Recovery Procedures	FCOM/BFCTM QRH
EMERGENCY PROCEDURES	
<input type="checkbox"/> BRIEF QRH PROCEDURES <input type="checkbox"/> Abnormal Start Procedures	QRH
END OF BRIEF	



BRIEFING GUIDE FFS 2A/2B TYPE QUALIFIED/UPGRADE/CONVERSION COURSE		
CYVR		
	TOPIC	REFERENCE
PRE-FLIGHT		
<input type="checkbox"/> Review Pre-Flight <ul style="list-style-type: none"> <input type="checkbox"/> Start <input type="checkbox"/> Taxi Requirements <input type="checkbox"/> Applicable Checklists <input type="checkbox"/> Review Takeoff And Emergency Review Briefings <input type="checkbox"/> Review Adverse Weather Operation/Flight In Icing Conditions 		FCOM
APPROACH		
<input type="checkbox"/> Review ILS CAT I and CAT II <ul style="list-style-type: none"> <input type="checkbox"/> approach procedures, approach briefings <input type="checkbox"/> setting airspeed and altimeter bugs <input type="checkbox"/> Review Engine Inoperative Drift Down/Performance <input type="checkbox"/> Brief Non-Precision Approach Procedures <ul style="list-style-type: none"> <input type="checkbox"/> stabilized descent <input type="checkbox"/> VNAV Approaches <input type="checkbox"/> approach briefings <input type="checkbox"/> setting airspeed and altimeter bug <input type="checkbox"/> Brief Procedure For Aircraft System Failures On Final Approach <input type="checkbox"/> Review Hold procedures <ul style="list-style-type: none"> <input type="checkbox"/> Programming <input type="checkbox"/> leg length <input type="checkbox"/> turn direction <input type="checkbox"/> speed limit <input type="checkbox"/> communication <input type="checkbox"/> fuel considerations 		FCOM/ COM/ BFCTM/ BFCTM- VNAV
EMERGENCY PROCEDURES		
<input type="checkbox"/> Brief QRH Procedures <ul style="list-style-type: none"> <input type="checkbox"/> Start Malfunctions (Review) <input type="checkbox"/> Electrical Malfunctions <input type="checkbox"/> Pneumatic Malfunctions (Pack Failures) <input type="checkbox"/> Rapid Depressurization <input type="checkbox"/> Emergency Descent <input type="checkbox"/> Wheel Well Fire (Turbojet Aeroplanes) <input type="checkbox"/> Cargo Fires <input type="checkbox"/> Radar Altimeter Failure 		FCOM/ QRH

END OF BRIEF



BRIEFING GUIDE FFS 3A/3B TYPE QUALIFIED/UPGRADE/CONVERSION COURSE		
CYVR/CYYJ		
	TOPIC	REFERENCE
PRE-FLIGHT		
<input type="checkbox"/> Review Low Visibility Procedures <input type="checkbox"/> Takeoff Alternate <input type="checkbox"/> PIC Requirements <input type="checkbox"/> Airport Level Of Service <input type="checkbox"/> Runway Requirements <input type="checkbox"/> Review Rejected Takeoff Procedures <input type="checkbox"/> Review Engine Failure After V1 Procedures		FCOM COM BFCTM
CRUISE		
<input type="checkbox"/> Review Diversion Procedures		
APPROACH- CYVR/CYYJ		
<input type="checkbox"/> Review Non-Precision Approach Procedures		FCOM/BFCTM
MISSED APPROACH		
<input type="checkbox"/> Review Missed Approach Procedures		FCOM
MANOEUVERS		
<input type="checkbox"/> Review EGPWS Escape Manoeuvres <input type="checkbox"/> Review Wind Shear Escape Manoeuvres <input type="checkbox"/> RTO <input type="checkbox"/> V1- CUT		FCOM/QRH BFCTM
EMERGENCY PROCEDURES		
<input type="checkbox"/> Engine Fire <input type="checkbox"/> Engine Failure <input type="checkbox"/> Cargo Fire/Smoke (As Applicable) <input type="checkbox"/> APU Fire <input type="checkbox"/> Passenger Evacuation		QRH BFCTM
END OF BRIEF		



BRIEFING GUIDE FFS 4A/4B TYPEQUALIFIED/UPGRADE/CONVERSIONCOURSE	
CYVR/CYYJ	
TOPIC	REFERENCE
PRE-FLIGHT	
<input type="checkbox"/> Normal Pre-Flight, Briefings and Checklists	
START	
<input type="checkbox"/> Starting with Ground Air Start <input type="checkbox"/> Engine Crossbleed Start	FCOM-SUPP
CRUISE	
<input type="checkbox"/> Review Material Covered In Previous Sessions, As Required <input type="checkbox"/> Review CRM Techniques During Non-Normal Situations <ul style="list-style-type: none"> <input type="checkbox"/> Emphasize crew communications <input type="checkbox"/> Signals <input type="checkbox"/> Notifications required for ATC and Company <input type="checkbox"/> Review Pilot Incapacitation Recognition (2 Call Rule) and Procedures	COM
APPROACH- CYVR/CYYJ	
<input type="checkbox"/> Review Non-Precision Approach Procedures	FCOM/BFCTM
MANOEUVERS	
<input type="checkbox"/> V1-CUT <input type="checkbox"/> Single Engine Landing <input type="checkbox"/> Rejected Landing	FCOM BFCTM QRH
EMERGENCY PROCEDURES	
<input type="checkbox"/> Hydraulic System Failures (Single And Multiple Systems) <input type="checkbox"/> Trailing Edge Flap Asymmetry <input type="checkbox"/> Leading Edge Flap Transit <input type="checkbox"/> Cargo Fire (On Ground) <input type="checkbox"/> Engine Fire	FCOM/BFCTM QRH
BRIEF QRH PROCEDURES	
<input type="checkbox"/> Hydraulic System Failures (Single And Multiple Systems) <input type="checkbox"/> Trailing Edge Flap Asymmetry <input type="checkbox"/> Leading Edge Flap Transit <input type="checkbox"/> Cargo Fire (On Ground) <input type="checkbox"/> Engine Fire	QRH

END OF BRIEF