AIRCRAFT AND SIMULATOR SETUP

1.	Tir	ne / Weather / A/C Position	As Chosen
		IF FLYING ON IVAO	
	a.	A/C Position	Free of other traffic
		IVAO Pilot Client	
2.	EF	B > Home > Flight Details Im	oort Simbrief Flight Plan
3.	EF	B > Ground Operations	Initiate Boarding
4.	Sic	destick, Throttle, Rudders, External Monitor	Connected
5.	MS	SFS Pop-Out Panel Manager As	s Desired, Start Pop-Out
E	LE	CTRICAL POWER UP	
		NDR Mode	
		ttery	
		& C2 ELEC Hydraulic Pumps	
		draulic Demand Pumps	•
5.	Wi	pers	OFF
6.	LD	G Gear	DOWN & Synchronized
7.		TN Flaps	
_		Establish Electrical Power	
8.	L 8	R BUS TIE	AUTO
		IF EXT PWR AVAIL	
	a.	PRIMARY & SECONDARY EXT PWR	ON
	b.	APU	ON
		IF NO EXT PWR AVAIL	
	c.	APU	ON, then START

9. PARKING BRAKE SET

OUTSIDE INSPECTION

1.	Tires Check Condition
2.	Brake Pins Check not flush with boundary
	IF MAINTANANCE REQUIRED
	a. EFB > Ground Operations > Ground Maintenance

PRELIMINARY PREFLIGHT PROCEDURE

Completed	 Electrical I 	1.
ON	2. ADIRU	2.
Guard Closed	3. EMER LIG	3.
STAT page	4. LOWER E	4.
Verify Sufficient (no RF)	a. Hydrau	
Verify Sufficient (no RF)	b. APU O	
Only Expected	c. Messa	
ENG page	5. LOWER E	5.
Verify Sufficient	a. Oil QT	
	b. Flight <	
	c. Flight >	
Only expected messages	6. UPPER E	6.
Test	7. Oxygen	7.
Completed	8. PREFLIGI	8.

FMC Setup

1	N 1 a	Charly Information Courses
1.		enu > FMC > IDENT Check Information Correct
		A/C Type
		Engine Type
_		NAV DATA Cycle
		OS INIT Copy GPS Pos into Inertial Pos
3.		OUTE > Route Request Select desired route
		SET PAYLOAD
		SET FUEL
4.	SE	LECT RTE Wait for Uplink
	a.	ROUTE UPLINK Load (Takes some time)
	b.	ACTIVATE > EXEC
5.	FS	Actions Set Desired PAX and CARGO
6.	DE	EP ARR Enter Departure and Arrival
	a.	${\sf Trans~~LEGS>PREV~PAGE~until~DISCONTINUITY,~Last~WP~of~route}$
7.	LE	GS Verify DEP, Route, and ARR correct
	a.	SPEED CSTR without ALT CSTR will be missing from procedures
	b.	XYZ180/25 = From Waypoint XYZ on Radial 180 for 25 NM
8.	RT	TE page > NEXT PAGE Compare Uplinked route to flight plan
9.	PF	ROG Compare shown ground distance to planned distance
10	.RT	TERTE COPY
11	.LE	GS > RTE DATA (ND not PLAN mode) WIND DATA LOAD, then EXEC
12	.FN	MC COMM > UPLINK DES FORECAST LOAD
13	.NA	AV RAD Frequencies as desired
14	.FI	X Draw visual helpers
	a.	MSA around aerodrome
	b.	Others according to procedures
15	.VN	NAV Check TA
16	.IN	IT REF > PERF INIT > PERF INIT DATA ACCEPT
	a.	Uplinks Reserves, Cruise Level, and Cost Index
	b.	Min Fuel Temp
	c.	CRZ CG can be left at 7.5% or set to 30%

COCKPIT PREPARATION

1.	ADIRU Switch	ON
2.	BATTERY	ON
3.	IFE/PASS Switches	ON
4.	APU GEN	ON
5.	APU Switch ON & OF	F light extinguished
6.	L & R BUS TIE	AUTO
7.	EXT PWR	As Needed
8.	GEN	ALL ON
	a. DRIVE DISC Switches	Guarded & up
	VOICE RECORDER	
	.EMER LIGHTS	
	.WINDOW HEAT	
12	.RAM AUR Turbine SW	Guarded
13	.HYD ENG PUMPS L & R	ON
	a. Remaining Pumps	
14	NO SMOKING / NO ELECTRONICS	AUTO
_	AFTER REFUELING COMPLETED	
	SEAT BELTS	ON
16	SEAT BELTS	ON As Needed
16 17	SEAT BELTS	ON As Needed OFF
16 17	SEAT BELTS	ON As Needed OFF Not Armed
16 17 18	SEAT BELTS	ON As Needed OFF Not Armed Guarded
16 17 18	SEAT BELTS	ON As Needed OFF
16 17 18	SEAT BELTS Flight Deck lights LANDING Lights CARGO FIRE SW a. DISC SW ENGINE EEC MODE	ON As Needed OFF Not Armed Guarded Norm & Guarded orm for both engines
16 17 18 19 20	SEAT BELTSFlight Deck lightsLANDING LightsCARGO FIRE SWa. DISC SWENGINE EEC MODESTART PANELAUTOSTART SW	ON As Needed OFF Not Armed Guarded OFF Guarded OFF Guarded OFF OFF OFF OFF OFF OFF OFF OFF OFF OF
16 17 18 19 20	SEAT BELTS Flight Deck lights LANDING Lights CARGO FIRE SW a. DISC SW ENGINE EEC MODE START PANEL AUTOSTART SW FUEL JETTISON NOZZLES	ON As Needed OFF Not Armed Guarded Morm & Guarded Orm for both engines ON OFF & Guarded
16 17 18 19 20	SEAT BELTSFlight Deck lightsLANDING LightsCARGO FIRE SW	ON As Needed OFF Not Armed Guarded Norm & Guarded orm for both engines ON OFF & Guarded
16 17 18 19 20 21	SEAT BELTSFlight Deck lightsLANDING LightsCARGO FIRE SW	ON As Needed OFF Not Armed Guarded Norm & Guarded orm for both engines ON OFF & Guarded Pushed In Disarm
16 17 18 19 20 21	SEAT BELTSFlight Deck lightsLANDING LightsCARGO FIRE SW	ON As Needed OFF Not Armed Guarded Orm for both engines ON OFF & Guarded Pushed In Disarm OFF
16 17 18 19 20 21	SEAT BELTSFlight Deck lightsLANDING LightsCARGO FIRE SW	ON As Needed OFF Not Armed Guarded Orm for both engines ON OFF & Guarded Pushed In Disarm OFF
16 17 18 19 20 21	SEAT BELTSFlight Deck lightsLANDING LightsCARGO FIRE SW	ON As Needed OFF Not Armed Morm & Guarded OFF ON OFF & Guarded Description OFF & Guarded OFF OFF

COCKPIT PREPARATION - CONTINUED

24.OUTSIDE Lights	
DAYLIGHT	
a. NAV	ON
b. IND LTS	BRT
NIGHT	
c. NAV & LOGO	ON
d. IND LTS	DIM
25. Other EXT lights	OFF
26.L & R PACK SW	AUTO
27.TRIM AIR	
28. BLEED AIR ISOL VALVES	AUTO
29.L & R ENG BLEED	ON
30.APU BLEED	AUTO
31.PRESS OUTFLOW VALVES	AUTO
32. LANDING ALT SELECTOR	
33.QNH	
34. ND	40 NINA
J4. ND	10 NW
35. TFC	
	Press
35. TFC	Press layed as needed
35. TFC	Press layed as neededPressBoth ON
35. TFC	Press layed as neededPressBoth ON
35. TFC	Press layed as neededPressBoth ON
35. TFC	layed as needed Press Both ON Both UP
35. TFC	layed as needed Press Both ON Both UP
35. TFC	layed as needed Press Both ON Both UP
35. TFC	layed as needed Press Both ON Both UP AUTO Up
35. TFC	layed as needed Press Both ON Both UP AUTO Up AUTO all OFF
35. TFC	Iayed as needed Press Both ON Both UP AUTO Up AUTO all OFF NORM
35. TFC	Iayed as needed Press Both ON Both UP AUTO Up AUTO all OFF NORM
35. TFC	layed as needed Press Both ON Both UP AUTO Up AUTO all OFF NORM Set QNH OFF & Guarded
35. TFC	layed as needed Press Both ON Both UP AUTO Up AUTO all OFF NORM Set QNH OFF & Guarded

COCKPIT PREPARATION - CONTINUED

RTC	AUTOBRAKE	50. AU
AUTC		-
MFC	F/O INBOARD DSPL	52.F/C
OFF	DSPL CTRL SW	53. DS
Set	PARKING BREAK	54. PA
DOWN Detent	SPEED BRAKE	55.SP
Middle Position	ALTN PITCH TRIM SW	56. AL
Guarded	STAB CUTOUT SW	57. ST
CUTOFF	L & R FUEL CONTROL	58.L 8
Matches FLAP Position	FLAP Selector	59.FL
OFF & Guarded	ALTN FLAPS	60. AL
As Required	Frequencies	61.Fre
Turn Or	a. L & R VHF	a.
MIC	b. L VHF	b.
12 o'clock position	c. GAIN SW	c.
Verify DATA active		
Both Pushed In	ENG FIRE DISC SW	63.EN
Neutra	AILERON & RUDDER Trim	64. AIL
ABV on both sides	Transponder	65. Tra
NORN		
L	b. XPNDR Selector	b.
Set	c. Squawk	C.
STBY	d. XPNDR Mode	d.

TAKEOFF PERFORMANCE CALCULATION

1.	We	eather Information	Up To Date
	a.	LOWER EICAS > COMM > Flight Information > T	WIP Request
2.	ZF	FW & TO CG	Up To Date
	a.	MENU > FS ACTIONS > PAYLOAD	
3.	TC	O Performance	Calculate
	a.	EFB > Performance Tool > Take Off	
	b.	RWY Length	Verify Correct
4.	F۱	MC > THRUST LIM	Set
	a.	RTG (Take Off Rating)	Select
	b.	Sel Temp	Enter
	c.	D-TO N1 Check close	to %N1 from Perf. Calc.
	d.	CLB Rating will match N1 (keep default selection)	
	e.	(CLB 1 = 10% reduction -> for 90% or more)	
5.	PE	ERF	Enter GR WT and ZFW
6.	TA	AKEOFF	Enter Flaps & TO CG
	a.	V Speeds Verify and Enter	(EFB has precendence)
	b.	GR WT	Crosscheck
	c.	NEXT PAGE	Verify ACCEL HT

BEFORE START

_	APU	Verify Running
2.	EXT PWR Dis	connect & Remove
3.	PARKING BRAKE	Verify Set
4.	Chocks	Removed
5.	GND Equipment & Vehicles	Released
6.	Doors	Closed & Armed
7.	MCP Enter V2, RW	Y HDG, INIT CLIMB
	IF ROUTING CAN BE FLOWN COMPLETELY VIA	FMC
	a. LNAV & VNAV	Activate
8.	GND Crew clear of aircraft	Pressurize Aircraft
	a. R ELEC Demand Pump	AUTO
_	ONCE FAULT LIGHT EXTINGUISHED	
	b. Remaining Demand Pumps	
	5. Tromaining Domaina Lampo	ON
	c. C1 & C2 ELEC Pumps	On
9.	·	On
9.	c. C1 & C2 ELEC Pumps	On ON
	c. C1 & C2 ELEC Pumps	On ON R"
10	c. C1 & C2 ELEC Pumps FUEL PUMPS a. CENTER PUMPS only if EICAS message "FUEL in CT	On ON R" Set
10 11	c. C1 & C2 ELEC Pumps FUEL PUMPS a. CENTER PUMPS only if EICAS message "FUEL in CT". TRIM	On R" Set XPNDR
10 11 12	c. C1 & C2 ELEC Pumps FUEL PUMPS a. CENTER PUMPS only if EICAS message "FUEL in CT TRIM	On N Set XPNDR Vleted until Beacon
10 11 12 13	c. C1 & C2 ELEC Pumps FUEL PUMPS a. CENTER PUMPS only if EICAS message "FUEL in CT TRIM Transponder BEFORE START CHECKLIST Comp	On ON R" Set XPNDR Dileted until Beacon equired / Obtained
10 11 12 13	c. C1 & C2 ELEC Pumps FUEL PUMPS a. CENTER PUMPS only if EICAS message "FUEL in CT TRIM	On R" XPNDR Deted until Beacon equired / Obtained

PUSHBACK AND ENGINE START

1.	Pushback	Follow Instructions
2.	LOWER EICAS	ENG page
3.	Engine L & R	Start
	a. ENG START Selector	
	b. FUEL CUTOFF SW	RUN
	a Start Completed Once Bod ECT Line Dicennes	aro.

c. Start Completed Once Red EGT Line Disappears

BEFORE TAXI

OFF		APU	1.
As Required / ON			
то		Flaps	3.
Checked			
Completed	IST	BEFORE TAXI CHECKLI	5.
ON			
ON	hts	RUNWAY TURNOFF Lig	7.
. As Required / Obtained		Taxi Clearance	8.
Checked		Brakes	9.
	AT HOLDING POINT		
ON		STROBE Light	10.
CAP & F/O		WXR & TERR	11.
TCAS TA/RA		Transponder	12.
	• •	IF FYLING ON IVA	
ON & ALL	\S	a. IVAO Pilot Client TCA	
y ALT & Squawk Correct	OR Ve r	b. IVAO Pilot Client XPD	
Completed	ECKLIST	BEFORE TAKEOFF CHE	13.
OFF		TAXI & TURNOFF Lights	14.
ON		S S TOTT Ligitio	
ON		-	15.
	LEARED FOR TAKEOFF	Landing LightsC	_
	LEARED FOR TAKEOFF	Landing LightsC	_

TAKEOFF

1.	N1		55% (ext	ension of EGT gauge)
_			ONCE ENGINES STABILIZED	
2.	TC)GA		Push
3.	Fo	rward column pres	ssure until 80 kts	
4.	4. Rotate at around 2 - 2.5 degr (one stripe) per second until 15 degr pitch			
5.	Au	topilot at 200ft AG	L	
	a.	80 kts		HOLD
	b.	50 ft		LNAV
	c.	400 ft		VNAV
6.	LA	NDING GEAR (at	positive rate of climb)	UP

AFTER TAKEOFF

1.	Flaps	Up according to speed
2.	ENG & WING Anti-Ice	AUTO
3.	AFTER TAKEOFF CHECKLIST .	Completed
4.	Once TO Thrust Over	CHRONO Off

CLIMB

1.	VNAV page	Open
2.	HDG Bug	Synchronize
_	ON PASSING TA]
3.	QNH	STD
_	AT FL 100	
4.	LANDING, RUNWAY TURNOFF, TAXI Lights	OFF
5.	SEATBELT Signs	AUTO
6.	3000 ft to Climb	VS < 3000 ft/min
	a. 2000 ft < 2000 ft/min	
	b. 1000 ft < 1000 ft/min	

CRUISE

1.	TCASBLW		
2.	Fu	el Checks (at least every 60 min) Perform	
	a.	current time inflight / fuel / fuel used (PROG page)	
	b.	compare to nav log	
	c.	compare totalizer & calculated at PROG page 2	
3.	Alt	ernate Airports	
	a.	ALTN in FIX page results in special marking	
4.	ST	TEP Climbs Monitor / Perform	
	a.	VNAV page has step climb altitude and distance	
	b.	keep distance of 700 - 1000 ft from MAX FL	
	c.	OPT & MAX FL increase by 100 ft every 10-13 min	
	d.	step climb based on RCMD FL	
	e.	forecasted fuel might be inaccurate	
	f.	step climb constrained: e.g. 370S will make fuel pred accurate again	
5.	Dr	aw time marker on ND	
	a.	FIX > ETA-ALT > TimeZ	
6.	Ge	et time to WP	
	a.	PROG > enter WP into DEST	
7.	Re	equired Time At (RTA)	
	a.	PROG > NEXT PAGE > NEXT PAGE > Enter WP > Enter RTA	
8.	SL	OP	
	a.	RTE > OFFSET > R1 (not more than 2 miles)	
9.	DI	RECT TO on given course	
	a.	ENTER WP as DIRECT > bottom right INTC CRS TO > enter course	
10	TC)D Monitor	

BEFORE DESCEND (10-20 MIN PRIOR TO T/D)

1.	RECALL	Check for EICAS messages
2.	CHKL	Check for Notes
3.	DEST Weather	Check
4.	QNH	Preselect DEST QNH
5.	Arrival	Enter / Verify
6.	Descend Wind Forecast	Request
	a. FMC COMM > DES Forecast > Forecast Req	uest
	b. TRL	Crosscheck
	c. LOAD forecast uplink	
7.	NAV AIDS	Enter / Confirm
8.	Active Flight Plan	Copy to Secondary
	a. RTE > PREV PAGE > RTE COPY	
9.	Draw Markers for Arrival	As Required
10	Landing Weight	Calculate
	a. PROG page, GW - (current fuel - predicted fu	el at destination)
11	Landing Speeds	Obtain
	a. enter calculated landing weight (GW) at INIT	REF page
	b. VREF add: half steady headwind + full gust	
12	Landing Performance	Calculate
13	AUTOBREAK	Set accordingly
14	Approach Minima	Get from Chart
	a. B777-300ER is category D	
15	Approach Briefing	Perform
16	DESCEND CHECKLIST	Completed
17	MCP ALT	Set to descend target

DESCEND

1.	VNAV Mode	Confirr	n VNAV PATH / as required
	a. VNAV page provides	required descend rate	
	b. VNAV > OFFPATH de	escend blue idle PWR to	RWY, white with S/B
_		ON PASSING FL 250	
2.	SEATBELT Signs		ON
_		ON PASSING FL 100	
3.	Speed Brakes		Use to Decelerate to 250 kt
4.	LANDING, RUNWAY TU	RNOFF, TAXI Lights	ON
_		ON PASSING TRL	
5.	QNH		Set Local
6.	APPROACH CHECKLIST	·	Completed

ILS APPROACH

1.	FMC Approach	
_		IN VICINITY OF AIRPORT
2.	NAV Aids	ldentify
_		12 NM PRIOR TO RWY
	a. Altitude	3000 ft
	b. Speed	200 kt
_	-	BEFORE INTERCEPTING GS
3.	Flaps	5
		Flaps 5 Speed
_		CLEARED FOR APPROACH
5.	APP mode	Activate
_		ON GS CAPTURE
6.	MCP ALT	Set Missed Approach Altitude
_	A	T 2500 FT ABOVE RWY ELEVATION
7.	LANDING GEAR	DOWN
8.	Flaps	
9.	MCP SPEED	Flaps 20 Speed
10	.Speed Brake	Arm
11.	LANDING CHECK	.IST Open
_		ONCE FLAPS 20
12	.Flaps	Set Landing Configuration
		Set Approach Speed (VRef + HW/Gust)

NON-PRECISION APPROACH W/ VERTICAL GUIDANCE

1.	Da	atabase and Charts		Compare
2.	Q١	NH		Verify Local
3.	Mi	nimums		Verify / Set
4.	La	teral Navigation	LNAV or LO	C (depending on approach)
5.	AF	PPROACH Mode		Activate
	a.	Flight Mode		Descent
	b.	Flaps		1
	c.	When activated, MCF	Speed Open will keep \	NAV PATH mode active
6.	PF	ROG > RNP PROGRE	SS (4/4) > VERT RNP	Set 125
	a.	Amber bar as soon a	s vertical deviation is mo	e than 75 ft
7.	M	CP HDG		Set RWY Heading
_			AT 2 NM PRIOR TO FA	=
8.				Set to Minimums
				Verify VNAV PTH Active
10	. M0	CP Speed		Set Appropriate
		Fallers of an dead dead		
	a.	Follow standard dece	lerated approach profile	
		Intercept using Flaps		
		Intercept using Flaps	5 AT 2500 FT AGL	
_		Intercept using Flaps	5 AT 2500 FT AGL	Down
_	b. c.	GearFlaps	5 AT 2500 FT AGL	20
_	b. c.	GearFlaps	5 AT 2500 FT AGL	
_	c. d. e. f.	Gear	5 AT 2500 FT AGL	
	c. d. e. f.	Gear	5 AT 2500 FT AGL	
_	b. c. d. e. f.	Gear	AT 2500 FT AGL AT 2500 FT AGL ST	
11	c. d. e. f. g.	Gear	AT 2500 FT AGL AT 2500 FT AGL GT GELOW MISSED APPRO	
	c. d. e. f. g.	Gear	AT 2500 FT AGL AT 2500 FT AGL ST SELOW MISSED APPRO escend	20 Armed Flaps 20 Speed Open ACH ALTITUDE
_	b. c. d. e. f. g.	GearSpeed Brake	AT 2500 FT AGL AT 2500 FT AGL ST SELOW MISSED APPRO Seescend ONCE RWY IN SIGHT	
_	b. c. d. e. f. g.	Gear	AT 2500 FT AGL AT 2500 FT AGL ST SELOW MISSED APPRO Seescend ONCE RWY IN SIGHT	Armed Flaps 20 Speed Open ACH ALTITUDE Missed Approach Altitude
_	b. c. d. e. f. g.	Gear	AT 2500 FT AGL AT 2500 FT AGL ST SELOW MISSED APPRO Seescend ONCE RWY IN SIGHT IN FMC	
_	b. c. d. e. f. g M(0) a.	Gear	AT 2500 FT AGL AT 2500 FT AGL ST SELOW MISSED APPRO Seescend ONCE RWY IN SIGHT IN FMC	

NON-PRECISION APPROACH W/O VERT. GUIDANCE

1. FMC Verify Setup a. Approach Fixes & Constraints Verify Correct IF INTERMEDIATE WAYPOINTS BETWEEN FAF AND RUNWAY b. Distance to Altitude Convert from RWY distance to WP distance 2. QNH Verify Local 3. Lateral Navigation LOC or LNAV (depending on approach type) 4. Flaps 5. MCP Speed Flaps 5 Speed 2 NM prior to FAF 6. Gear Down 7. Flaps 20 Speed 9. MCP Speed Flaps 20 Speed 9. MCP ALT MDA 10. FPA Mode Preselect 11. Speed Brake Arm 0.5 NM prior to FAF 12. Flaps Landing Config 13. FPA Mode Engage and Set GP
b. Distance to Altitude
b. Distance to Altitude
2. QNH Verify Local 3. Lateral Navigation LOC or LNAV (depending on approach type) 4. Flaps 5 5. MCP Speed Flaps 5 Speed 2 NM prior to FAF Down 7. Flaps 20 8. MCP Speed Flaps 20 Speed 9. MCP ALT MDA 10. FPA Mode Preselect 11. Speed Brake Arm 0.5 NM prior to FAF 12. Flaps Landing Config 13. FPA Mode Engage and Set GP
3. Lateral Navigation LOC or LNAV (depending on approach type) 4. Flaps 5 5. MCP Speed Flaps 5 Speed 6. Gear Down 7. Flaps 20 8. MCP Speed Flaps 20 Speed 9. MCP ALT MDA 10. FPA Mode Preselect 11. Speed Brake Arm 0.5 NM prior to FAF 12. Flaps Landing Config 13. FPA Mode Engage and Set GP
4. Flaps 5 5. MCP Speed Flaps 5 Speed 6. Gear Down 7. Flaps 20 8. MCP Speed Flaps 20 Speed 9. MCP ALT MDA 10. FPA Mode Preselect 11. Speed Brake Arm 0.5 NM prior to FAF 12. Flaps Landing Config 13. FPA Mode Engage and Set GP
Flaps 5 Speed 2 NM prior to FAF 6. Gear Down 7. Flaps 20 8. MCP Speed Flaps 20 Speed 9. MCP ALT MDA 10. FPA Mode Preselect 11. Speed Brake Arm 0.5 NM prior to FAF 12. Flaps Landing Config 13. FPA Mode Engage and Set GP
2 NM prior to FAF
6. Gear Down 7. Flaps 20 8. MCP Speed Flaps 20 Speed 9. MCP ALT MDA 10.FPA Mode Preselect 11. Speed Brake Arm 0.5 NM prior to FAF 12. Flaps Landing Config 13. FPA Mode Engage and Set GP
7. Flaps 20 8. MCP Speed Flaps 20 Speed 9. MCP ALT MDA 10. FPA Mode Preselect 11. Speed Brake Arm 0.5 NM prior to FAF 12. Flaps Landing Config 13. FPA Mode Engage and Set GP
8. MCP Speed Flaps 20 Speed 9. MCP ALT MDA 10. FPA Mode Preselect 11. Speed Brake Arm 0.5 NM prior to FAF 12. Flaps Landing Config 13. FPA Mode Engage and Set GP
9. MCP ALT
10. FPA Mode Preselect 11. Speed Brake Arm 0.5 NM prior to FAF Landing Config 12. Flaps Landing Config 13. FPA Mode Engage and Set GP
11. Speed Brake Arm 12. Flaps Landing Config 13. FPA Mode Engage and Set GP
12. Flaps
12. Flaps
13. FPA Mode Engage and Set GP
14. Landing Checklist Completed
15. Distance to Altitude
300 ft prior to MDA (but below 300ft from Missed Approach Altitude)
16. MCP ALT Set Missed Approach Altitude

GO AROUND

1.	Aircraft not stable at 100	0 ft Perform GA
	a. TOGA SW	Push (Once - THR) (Twice - THR REF)
	b. Speed Increase	Verify
	c. Flaps	
_		ON POSITIVE CLIMB
2.	Landing Gear	UP
3.	FD	ON
_		AT 400 FT AGL
4.	Roll Mode	Verify LNAV or HDG / TRK
5.	Missed Approach Route	Verify Tracked
6.	Missed Approach Altitud	e Verify Set
_	AT	ACCELERATION ALTITUDE
7.	MCP Speed	Manually Set Target Speed
8.	Flaps	Up According to Speed
_	ONCE	FLAPS IN TARGET POSITION
9.	Vertical Guidance	Activate FLCH (or VNAV)
10	Thrust Mode	Push CLB/CON
_	ONCE	FARGET ALTITUDE CAPTURED
11	AFTER TAKEOFF CHE	CKLIST Completed

LANDING

1.	LANDING CHECKLIST	Comple	ted
2.	Stabilized approach at 1	000 ft AGL	
	a. Speed	(VApp - 5, VApp + 10), not below V	Ref
	b. Lateral	Within 1 dot of LOC dev, half RNP va	lue
	c. Vertical	Within 1 dot of GS dev, +- 75 ft R	NP
	d. THRUST	At reasonable le	vel
	e. Aircraft	In landing cor	nfig
_	1 - 2 NM PRIOR TO / :	300 FT - 600 FT ABOVE TO RWY THRESHOLD	
3.	A/P		Off
_		AT 30 FT	_
4.	Flare up 2-3 deg		
_		AFTER TOUCHDOWN	
5.	Reversers	As Needed / Activ	ate

AFTER LANDING

1.	Speed Brake	Retracted
2.	Flaps	UP
3.	Autobreak	OFF
4.	Landing Time	Noted
5.	APU	Start
6.	Anti-ICE	As Needed
7.	LANDING & Strobe Lights	OFF
8.	WXR & TERR	OFF
9.	Transponder	XPNDR
	IF FLYING ON IVAO	
	a. IVAO Pilot Client TCAS	STBY
10	Single Engine Taxi:	
	a. 3 min after landing & 36% N1 or less	. Shutdown one engine
_	ON ENTERING GATE AREA	<u> </u>
11	.TAXI and RUNWAY TURNOFF Lights	OFF
12	PARKING BRAKE	Set

SHUTDOWN

1.	PARKING BRAK	E	Verify Set
2.	On Block Time		Noted
3.	APU		Verify Running
5.	FUEL CONTROL	S	CUTOFF
6.	SEATBELT Sign	3	OFF
7.	HYDRAULIC Sys	stem	OFF
	a. Shut down R	GHT side LAST	
8.			
_		ONCE ENGINES BELOW 20% N2	
9.	BEACON Light		OFF
10	FD		OFF
12	SHUTDOWN CH	ECKLIST	Completed
13	EICAS message	s that do not disappear after 3 minutes	Note
14	EFB Ground Ope	rations	Deboard
		Dis	
15	WINDOW HEAT		OFF
16	EMER LIGHTS .		OFF
		WER AVAILABLE	
		SECONDARY EXT PWR	
17	IFE/PASS		OFF
18	_		
_		ONCE DEBOARDING COMPLETED	
19	EXT PWR		OFF
20	BATTERY		OFF
	IF FLYING	ON IVAO	
	a. IVAO Pilot Cl	ent	Disconnect