APPENDIX D Training File

. / ((()	L41 TRAINING PROCEDURES MANUAL			Component				
Stude	ent Name:							
Tra	ining Syllabus—Component Co	omplet	tion					
1	FAMILIARISATION WITH AIRCRAFT	Check	Date	Student	Instructor			
	External features - Major components, without excessive detail Cockpit layout - Name each instrument (use checklist) Aircraft systems - Introduction Logbook - How to complete and maintain							
1E	EMERGENCY DRILLS (with respect to gi	round er	nergenc	ies)				
	Emergencies carried out as per aircraft Ops Manual Engine fire on ground Electrical cabin fire on ground							
2	PREPARATION FOR AND ACTION AFTER FLIGHT							
	Electrical system							
	Position of aircraft for starting							
	Authorisation							
	External inspection							
	Position of aircraft for starting							
	Entering cockpit							
	Availability of fire extinguishers Seating (comfortable, adequate visibility, able to manipulate							
	controls freely) Internal inspection							
	Pre and after start checks (Student to do first start-up)							
	Power checks							
	THE AIRCRAFT SYSTEMS	<u> </u>		-	1			
	Static system							
	Dynamic system							
	Ignition system							
	Hydraulic system							
	Philosophy: Cockpit - flow patterns, memory and action items							
	Checklist:: Practical use of, availability							

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Stud	lent Name:				
Tra	ining Syllabus—Component C	Complet	ion		
	ACTION AFTER FLIGHT	CHECK	DATE	STUDENT	INSTRUCTOR
3	After landing checks Where to park/flight line/refueling Shutdown (method) Danger of leaving ignition and master on Securing the- controls Park brake Tidying up the cockpit Post flight inspection and chocks Flight folio and reporting of snags AIR EXPERIENCE (Depending on previous Introduction to the sensation of flight New aspect of ground seen from ai	ous exper	ience)		
	Introduction to attitude flying concept Set the tone for all subsequent training Radio - Use of formal terminology and standard phraseology				
4	Basic level flight attitude Primary effects (Banked and level attitude) Secondary effects Aileron and rudder coordination -Further effects Trimmers (elevator, rudder tab, NB to focus on external attitude) Effect of airspeed on the controls: effectiveness, yaw, pitch Slipstream Throttle: pitch and yaw Effect of flap - coordinated pitch attitude change Effect of airspeed on the controls Slipstream Spiral dive and recovery				
5	TAXYING Inertia: the need for excess power to get moving Power reduction once moving to control speed				
				1	

Avoid repetitive opening and closing of throttle

Correct use of power and brakes

Speed control: acceleration/deceleration

High speed taxying, smooth but positive control and correction

Directional control

Where to taxy

Keeping aircraft moving during turns

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Maintaining

APPENDIX D Training File

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Stuc	lent Name:				
Tra	nining Syllabus—Component Co	mplet	ion		_
	TAXYING (Continued)	СНЕСК	DATE	STUDENT	INSTRUCTOR
	Straightening nose wheel before stopping Instrument serviceability - AH, TC, DI Compass and ADF High speed taxying, smooth but positive directional control Stopping, use of brakes while maintaining direction				
6	STRAIGHT AND LEVEL				
7	Initial height control - Co-ordinated application and attitude change Subsequent height control - Anticipate effect of drag and inertia Trimming – Remove control pressure only when finally settled Slow flight - Anticipate effect of drag, allow for inertia Basic attitude – Correct use of trimmer Height - Correct attitude for power / speed to maintain height Instruments – Use for reference only not for control Throttle/Rudder coordination - level, direction/balance with rudder Trimming - Pressure off once aircraft is settled Straight and Level – Slow Safe Cruise Flying at various airspeeds – Power, Attitude and configuration Entry - Correct sequence and attitude control during transition Maintaining - Correct pitch attitude will maintain speed Wings level and balance, will maintain direction				
7	CLIMBING			T	T
	Entry - Correct sequence and attitude control during deceleration Speed control - Instruments only for indication of performance Measured attitude changes for control Performance—Effect of incorrect attitude / speed on ROC Leveling off—Specific altitude Maintaining—Correct pitch attitude will maintain speed Wings level and balance will maintain direction				
8	DESCENDING				
	Entry Slope - Variable from level flight to glide Speed - Attitude and trim adjustment required with power change Range - Combined use of flap and power to control Speed control – Combination of power and attitude Performance - How correct speed affects ROD / Range Leveling off (No specific altitude)				

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APPENDIX D Training File Component Checklist

PARII	41 TRAINING PROCEDURES WANDAL			Component	CHECKIISE
Stud	ent Name:				
Tra	ining Syllabus—Component Com	pletic	n		
9	TURNING	СНЕСК	DATE	STUDENT	INSTRUCTOR
	Medium Turns				
	Coordinated aileron and rudder for entry				
	Coordinated controls for countering rolling tendency in the turn				
	Attitude for height control - Basic medium turn attitude				
	Coordinated aileron/rudder to roll out of turn				
	Attitude back to normal for straight & level				
	Climbing turns—rate one turns				
	More opposite aileron required in climbing turn				
	Descending turns - less opposite aileron required				
	Attitude control: various rates of descent (glide and powered)				
10A	SLOW FLIGHT				
	2 speeds for one power setting				
	Flap settings				
	Speed/attitude relationship				
	Minimum power setting required to maintain altitude				
	Awareness				
	Sluggishness of controls - gentle input with attention to coordination				
10B	STALLING				
	Safety - HASELL checks				
	Entry - external reference for pitch, lateral and directional control				
	Approaching the stall - minimal use of ailerons, use rudder to keep				
	wings level Symptoms of the approach to the stall and the actual stall				
	Recovery using external reference - avoid steep nose down attitude				
	Recovery with / without power. The effect on height lost.				
	Entry to stall with / without flaps				
	Stalling in landing configuration				
	Effect of g-force on stall speed (steep turns)				
11		L			
11	SPIN AVOIDANCE				
	Safety. Utility category: Mass and balance calculation in training file				
	Entry - Positive application of controls				
	Recovery - correct sequence: power off, opposite rudder, stick forward				
	Avoid development of the spin - recover during incipient phase				
	Very important : absolutely no use of ailerons during recovery				1

APPENDIX D Training File Component Checklist

PART 1	141 TRAINING PROCEDURES MANUAL			Component C	Checklist
Stud	ent Name:				
Tra	ining Syllabus—Component Com	pletic	n		
12	TAKE OFF AND CLIMB	CHECK	DATE	STUDENT	INSTRUCTOR
	TO DOWNWIND POSITION				
	Briefing - Informal assessment of actual conditions and subsequent decisions Demonstration - runway centerline & reference point, positive control Rotate - Elevator control to allow aircraft to rotate and fly itself off Lift-off - use horizon to control attitude and direction Positive rate of climb, after take-off checks when safely clear of ground Position in relation to runway - building awareness Maintaining good square circuit - using reference points Accuracy - not at expense of technique Geometry - Based on runway Short field take of				
13	CIRCUIT APPROACH AND LANDING				
	Demonstration - runway centreline & reference point, positive control Immediate action based on own judgement Heading control - use of DI in circuit Glide Approach Go around- A bad approach is a bad landing Landing - positive control near ground during flare and hold off Balloon recovery Directional and Lateral control and correction before touchdown Directional control and correction during and after touchdown				
	Side slipping Entry - Rudder to align the aircraft with a line feature Aileron to control bank Maintaining - Controlling airspeed with Attitude control Transition from the sideslip to normal descent - coordination				
Ε	EMERGENCIES (with respect to take offs, landings, go-arou	ınds and er	ngine failure)		
	EFATO demo - shortly after take-off, field selection, procedures EFATO - student competent with reaction time, procedures Engine failure in the circuit - procedures, confidence Emergencies during hi-speed taxy (loss of direction) Go-around - positive and prompt action Short-field landing Bounce recovery - avoiding nose-down reactions by student.				

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Short field landing execution

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Stud	ent Name:				
Tra	ining Syllabus—Component Co	mpletic	n		
14	FIRST SOLO	СНЕСК	DATE	STUDENT	INSTRUCTOR
	All pre-solo requirements complied with (Pre-solo check list) Briefing: differences in handling of lighter aircraft - what to expect Debrief Completion of logbook				
15	ADVANCED TURNING				
	Steep Turns 45 Degrees - attitude control, maintaining adequate back pressure Maintaining bank angle, accuracy of height control Spiral dive recovery				
16	FORCED LANDING WITHOUT POWER (FI	LWOP)			
	Setting up the glide, speed control Glide - Entry and trimming for attitude/speed Field selection - Large field will improve chances of success Field selection - Awareness of wind direction Field selection - Field within easy range Plan the approach - Choice of altitude check points Base position - Familiar situation (normal glide approach) Approach judgment- Dangers of attempting to stretch the glide Losing excess height - Side slipping, zigzagging, flaps				
17	PRECAUTIONARY LANDING				
	Briefing - The motivation for attempting precautionary landing Choice of field (WOSSS) Radio calls Setting up slow safe speed First pass ohd field at 500', joining on downwind for inspection Method of choosing reference points for proper inspection circuit Approaching for first and second inspection passes Inspection pass checks - first pass and second pass Maintaining proper altitude/airspeed and accuracy of procedures Preparation for the landing - pax briefing, downwind checks				
	Actions on finals - preparation for the touchdown.				

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Training Syllabus—Component Completion

Preparation - maps, flight plan, nav log, W&B, fuel requirements etc. Passing overhead, set heading, time, ETA DR navigation - times, map-reading, position fixes FREDAS checks Maintaining heading, altitude Nav log, regular entries, awareness of time/distance errors Recognition of ground features and significant points Ability to correct navigational discrepancies Approaching and joining at unmanned airfields Approaching and joining at manned airfields

16 NAVIGATION (problems at lower levels and in reduced visibility)

Briof.	CATS and	CADo	requirements
DHEI.	CATS and	CARS	reduirements

Diversions- calculating time, distance, heading

Review procedures and check list for low level flying

Accuracy of ETA predictions, keeping log of ETA vs ATA

Actions prior to descending

Execution of diversion

Descending to minimum safe altitude

Effect of speed and inertia: from straight and level to the climb

Effect of speed and inertia: during a turn

Effect of wind: crosswind, turning downwind/into wind Turbulence - effect of terrain, heat of the sun, wind

Bad weather: simulated bad weather landing at a suitable field