Edition 2 2022-05-02 Pelle Scherdin

TRAINING MANUAL JUMP – PILOT, NEW AIRCRAFT



For "experienced" JUMP pilot

- New aircraft type, after skill test: Min 10 loads with instructor.
- The PARA FI may decide which items to cover from within this syllabus, both regarding ground school and flight training, however; all items highlighted in YELLOW must be covered and signed for.

For new JUMP pilot, See syllabus "NEW JUMP PILOT"

- Min 200 hours to start the training
- Min 8 hours training and at least 20 loads with instructor if together with check-out on new aircraft type
- Min 5 hours training/20 loads with instructor if already checked out on aircraft type



Edition 2 2022-05-02 Pelle Scherdin

Notes:

- This Training Manual is written for, and covers most airplanes used for dropping of parachutists/skydivers. Certain versions of a type may differ from standard which requires the flight instructor to modify or alter the syllabus to cover the differences accordingly.

<u>List of contents</u>		
1.	Organization	2
1.1	Name and address	2 2 2 2 2 2 2 2 2 2 3 3
1.2	Type of operations	2
1.3	Head of Training	2
1.4	Para-pilot Instructors	2
1.5	Premises for flight operations	2
1.6	Premises for theory education	2
1.7	Aircraft used for training	2
2.	Training plan	3
2.1	The aim of the training	3
2.2	Prerequisites for training	3
2.3	Experience qualifications	3 3 3
2.4	Training Program	3
2.5	Training records	3
2.5.1	Documentation	3
2.5.2	Security	3
2.6	Tests and examinations	3
2.6.1	Documentation	3
2.7	Standards	3
2.7.1	Theoretical standards	3
2.7.2	Flight training standards	3 3 3 3 4 4 4
2.7.2.1	General requirements	4
2.7.2.2	Flight standards	<mark>4</mark>
2.8	Safety training	
2.8.1	Individual responsibilities	4
2.8.2	Emergency drills	4
2.9	Theoretical knowledge instruction	4
2.9.1	Ground school syllabus	5-9
3.1	Briefing and air exercises	10
3.1.1	Long Briefings	11
3.1.2	Syllabus Air exercises	12
3.2	Comprehension of sessions	13
4.	Student training records	14-25



Edition 2 2022-05-02 Pelle Scherdin

1. Organization

1.1 Name and address

Svenska Fallskärmsförbundet Sjöhagsvägen 2 721 32 Västerås SWEDEN +46(0)21 41 41 10

1.2 Type of operations

PARA

1.3 Head of Training (HT)

FLYK Chief Instructor

1.4 Approved Para-pilot Instructors

Pelle Scherdin Hans Lundberg Magnus Tegnhagen Sus Pär Svensson

1.5 Premises for Flight operations

Appropriate airspace, sites and runways.

1.6 Premises for theory education

Appropriate facilities.

1.7 Aircraft used for training

Aircraft type/class, A/C version, engine type/version

Any aircraft used for training should have appropriate equipment for this, e.g. flight controls, seating, seatbelts, intercom etc. Those aircraft lacking some of these items may be used after approval from HT.

1.8 Aircraft Maintenance

Name, location and contact



Edition 2 2022-05-02 Pelle Scherdin

2. Training plan

2.1 Aim of the training

The aim is that the pilot after the training, (and a skill test when so required), can act as PIC, (or co-pilot), during PARA operation and has shown adequate knowledge, skill and attitude, in normal and non-normal situations during flying and decision making including, but not limited to, a/c systems and operation, weather conditions, special operation, (including but not limited to), formation flying, big way formation, PARA at night and overall co-operation with all other staff.

2.3 Required experience qualifications

When in doubt; To be obtained from SFF or Transportstyrelsen before training begins.

2.4 Training program

2.4.1 Duty periods

A duty period starts 1 hour before EOBT and ends 30 minutes after on block.

Minimum rest between duty periods is 8 hours.

Maximum duty period for a student is 10 hours.

2.5 Training records

2.5.1 Documentation

All flights will be recorded, and the training records will be retained by the organization for a period of at least five years.

2.5.2 Security

The persons who have access to the training records are HT, TRI, CRI, the student concerned and Transportstyrelsen representative.

2.6 Tests and Examinations

2.6.1 Documentation

All theoretical tests will be retained by the organization for a period of at least five years.

2.7 Standards

The student must obtain the required standards during flight training, (before the skill test.)

2.7.1 Theoretical standards

The pass mark is 75 %.

2.7.2 Flight training standards

- 2.7.2.1 General requirements
- (a) Operate the aeroplane within its limitations.
- (b) Complete all maneuvers with smoothness and accuracy.
- (c) Exercise good judgement and airmanship.
- (d) Apply aeronautical knowledge.
- (e) Maintain control of the aeroplane at all times in such manner that the successful outcome of a procedure or maneuver is never in doubt.

2.7.2.2 Flight standards

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Altitude	Level flight Traffic pattern Normal Turns Steep Turns Slow flight	±50 ft ±50 ft ±100 ft ±100 ft ±100 ft
Heading	General	$\pm 5^{\circ}$, (slow flight; $\pm 10^{\circ}$)
Speed	General Climb at Vx and Vy Approach	±5 kt, (slow flight; +5/-0 kt) ±2 kt +5/-0 kt
Tracking	On radio aids, GPS	$\pm 5^{\circ}/\pm 0.1$ Nm, (eq 600 ft or 200 meter)

2.8 Safety training

2.8.1 Individual responsibilities

Each individual performing flight training is responsible that he or she possesses the appropriate skill of safety training.

2.8.2 Emergency drills

The emergency exercises shall be performed before first flight (E1)

Emergency exercise no.	Contents	Time
E 1	Actions in the event of fire/failure in the air and on the ground - engines, cabin and electrical. Systems failures. Escape drills- location and use of emergency equipment and exits. Decision making and co-operation with "Lift-chef"	0:30

2.9 Theoretical Knowledge Instruction

The theoretical knowledge instruction comprises

- (a) Ground school syllabus
- (b) Long briefings
- (c) The safety training syllabus

Note:

The ground school written examination comprises questions distributed appropriately across the main subjects of the syllabus. The pass mark is 75%.

A tuition hour consists of 60 minutes followed by a 15-minute break.

2.9.1 Ground school syllabus

Item	Tuition	Contents
no.	hours	
1	4.00	AEROPLANE STRUCTURE AND EQUIPMENT, NORMAL
1.1		OPERATION OF SYSTEMS AND MALFUNCTIONS Dimensions 1.1 dimensions
1.2		Engines 1.2.1 type of engines

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JUMP-PILOT

Edition 2 2022-05-02 Pelle Scherdin

1.2.2 in general, function of the following systems or component -engine -oil system -fuel system -ignition system -starting system -fire warning and extinguishing system -generator and generator drives -power indication -reverse thrust -propeller system -feathering system 1.2.3 engine controls (including starter), engine instruments and indications in the cockpit, their function, interrelation and interpretation. 1.2.4 engine operation during engine starts, start and engine malfunctions, procedures for normal operation in the correct sequence. 1.3 *)Fuel system 1.3.1 location of the fuel tanks, fuel pumps, fuel lines to the engines, tank capacities, valves and measuring. 1.3.2 location of the following systems: -filtering -heating -fuelling and defuelling -venting 1.3.3 in the cockpit the monitors and indications of the fuel system, quantity and flow indication, interpretation 1.3.4 fuel distribution into the various tanks, fuel supply and temperature control 1.4 Heat & Air Conditioning system 1.4.1 components of the system and protection devices 1.4.2 cockpit switches, levers, monitors and indicators, interpretation in regard to the operational condition. 1.4.3 normal operation of the heating system and temperature control. Item Tuition **Contents** no. hours *)Ice protection 1.5 1.5.1 Ice-protected components of the airplane including engine controls, de-icing of leading edges, sources, controls and indications

Hydraulic systems

1.6

1.5.2 operation of the anti-icing/de-icing system during take-off, climb, cruise and descent, conditions requiring the use of the protection systems.

Svenska Fallskärmsförbundet
JUMP-PILOT

1.12

Training Manual

Edition 2 2022-05-02 Pelle Scherdin

JUMP-PILOT, NEW AIRCRAFT

	1.6.1 components of the hydraulic system, quantities and system pressure, hydraulically actuated components associated with the respective hydraulic systems.1.6.2 controls, monitors and indicators in the cockpit, function and interrelation and interpretation of indicators.
1.7	Landing gear 1.7.1 main components of the -main landing gear -nose wheel -nose wheel steering -wheel brake system 1.7.2 required tyre pressure
2.0	Flight controls and high lift devices 2.0.1 -aileron system -elevator system -rudder system -trim systems -flaps *)-stall warning system 2.0.2 flight control system from the cockpit controls to the flight control/surfaces 2.0.3 controls and indicators of the systems mentioned under 2.0.2, interrelation and dependencies
2.1	Electrical power supply 2.1.1 number, power, voltage, frequency and location of the main power system (AC and DC) 2.1.2 location of the controls monitors and indicators in the cockpit 2.1.3 flight instruments, communication and navigation systems 2.1.4 location of vital circuit breakers 2.1.5 generator operation and monitoring procedures of the electrical power supply
1.10	Flight instruments, communications and navigation equipment 1.10.1 visible antennas
1.11	Cockpit, cabin and cargo compartment 1.11.1 operation of the exterior, cockpit and cabin lighting 1.11.2 operation of the cabin doors and windows
1 12	*\F marganess againment apprection and correct application of the

following emergency equipment in the aeroplane:

-portable fire extinguisher

-first aid kit

-ELT/PLB/(ELBA)

*)Emergency equipment operation and correct application of the

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1.13	Vacuum system	

(Intentionally blank)

2 1.00 *)LIMITATIONS 2.1 General limitations

General limitations
2.1.1 certification of the airplane, category of operation, noise certification

and maximum and minimum performance data for all flight profiles, conditions and a/c systems

-maximum crosswind components at take-off and landing

-maximum speed for flap extension V_{fo}

2.1.2

-stall speed Vs

2.1.3

-maximum take-off mass

-maximum landing mass

-maximum load factor during operation

-certified range of centre of gravity

2.2 Engine limitations

2.2.1 operating data of the engines

-time limits and maximum temperatures

-minimum RPM and temperatures

-torque

-maximum power for take-off and go-around

-minimum and maximum oil temperature and pressure

-maximum starter time and required cooling

-maximum propeller RPM

2.2.2 certified oil grades

2.3 System limitations

2.3.1 Fuel system

certified fuel specifications, minimum and maximum pressures

Training Manual JUMP-PILOT, NEW AIRCRAFT

	2 00	AND DEDUCATION OF THE COMPLETE AND AND A COMPLETE OF THE COMPL
3	2.00	*)PERFORMANCE, FLIGHT PLANNING AND MONITORING
3.1		Performance
		Performance calculation concerning:
		-stalling speed and airspeed calibration
		-take-off distances to 50 ft
		-enroute climb: time, distance and fuel
		-take-off rate off climb
		-service ceiling vs gross mass
		-normal descent: time, distance and fuel
		-landing distances from 50 ft
3.2		Flight planning
		Flight planning for normal conditions
		-power setting of the engine during climb and cruise
		-calculation of a flight plan
4	1.00	*) LOAD AND BALANCE AND SERVICING
4.1		Load and balance
		-load sheet with respect to the maximum masses for take-off and landing
		-centre of gravity limits
		4.1.1 influence of fuel consumption on the centre of gravity
		3 3
4.2		Servicing
		Servicing connections for:
		-fuel
		-oil
		-hydraulic
		-electric power
		ciccuite power
5	1.00	EMERGENCY PROCEDURES
5.1	1.00	Recognition of the situation as well as immediate memory actions in
J.1		correct sequence and for those conditions recognized as emergencies by
		the manufacturer and certification authority
		-engine failure during take-off
		-engine failure inflight -malfunctions of the propeller system
		-engine overheat, engine fire on ground and inflight
		-electrical smoke and/or fire
		-fuel pump failure
		-fuel freezing/overheat
		-electric power failure
		-flight instrument failure
5.0		*\Actions according to the comment of the sum of the su
5.2		*)Actions according to the approved abnormal and emergency checklist
Tı	TD *4*	-engine restart inflight
Item	Tuition	Contents
no.	hours	EW A MUNIA THON
6	1.00	EXAMINATION



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3. Flight training
The flight training comprises of flight training according PARA FI judgment and at least 10 T/O and landings during PARA operation, including at least 3 landings with "full load".

3.1 Briefing and air exercises

3.1.1 Long briefings

Note: When an applicant already has a adequate experience in the airplane used for training, only items deemed applicable by the instructor needs to be covered or checked. These items must however cover the *) items or more

Exercise no	Contents
B 1	Introduction to the aeroplane
	Explanation of the cockpit layout
	Aeroplane and engine systems
	Checklists
	External checks
	Internal checks
	Starting procedure
	Actions in the invent of malfunctions during start-up
	Engine run-up
	Power settings-limitations
*)B 2	Flight profiles
,	Effect of flaps
	Aeroplane handling characteristics during slow flight
	Effect of power
	Effect of trimming
	Operation of cabin heat/ventilation systems
*)B 3	Flight profiles short field Take Off and Landing
	Performance
	Engine limitations
	Stall speeds
	Characteristics of the stall
	Stall recognition and recovery
	Stalling and recovery:
	Without power
	With power on
	With flaps down
	Spin avoidance and recovery
Exercise No	Contents

Training Manual JUMP-PILOT, NEW AIRCRAFT

B 4	Flight planning		
	Performance		
	Use of radio navigation aids		
	Use of GPS		
	Cross wind take-off and landing technique		
*)B 5	Emergency procedures:		
	Engine failure during takeoff, and aborted T/O		
	Engine failure after takeoff, engine out procedures and checklists		
	Engine failure at "safe" altitude; restarting procedures		
	Characteristics during instrument flight		
	Precautionary landing		
*)B 6	B 6.1 Flying at max gross mass		
	Limitations		
	Flying characteristics at max gross mass		
	When applicable:		
	B 6.2 Flying with parachute jumpers		
	Regulations		
	Jumpmaster/Lift-chef coordination		
	Planning		
	Radio traffic		
	Local regulations		
	Final flying, ("running-in") spotting tecnique		
В 7	Class/type PC requirements		
	Procedures for the skill test		



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3.1.2 Syllabus Air exercises, according PARA FI judgement

Training No	Content	Time (block hrs)
1	A/C familiarization, Normal engine start procedures, Taxi, before T/O procedures, T/O and climb, Straight and level flight, Coordination maneuvers, Normal approach and landing, after landing and parking, procedure.	1:15
2	Prestart checklist and normal engine start, Taxi, tight-turns, and before T/O procedures, T/O and climb, Flying with different flap settings, Slow flight, Steep turns, Normal approach with low altitude Go Around, Full stop landing.	1:15
3	Prestart checklist and normal engine start, Taxi and before T/O procedures, Short field T/O, Practice of climb, Stall and stall recovery, Idle power/high/low speed descend, T/O and landings, Demo eng fail procedures, After landing and parking procedure.	1:15
4	Prestart checklist and normal engine start, Taxi and before T/O procedures, Normal T/O and climb, En Route procedures, Short field T/O and landings, 0-flap landings, Full stop landing.	1:15
5	Prestart checklist and normal engine start, T/O with engine failure, Engine failure at "safe" altitude, Abnormal procedures, T/O with engine fire before liftoff, T/O and landings without basic instruments, Instrument flight, Precautionary landing, Engine out approach and go-around, Eng out landing	1:30
6	Prestart checklist and normal engine start, Pax. briefing, Normal T/O and climb, flying at gross mass, Maneuvers at max gross, T/O and landings at max gross mass, Eng fail in initial climb After landing and parking procedure	1:30
<mark>7</mark>	Normal and non-normal PARA operation, spotting technique, use of nav equipment, cooperation with lift-chef, simulated emergencies, aborting dropping, descending with jumpers onboard, landing with full load.	1:30
	Total time	8:00
8	Additional training if so required	
9	Additional training if so required	
10	Additional training if so required	2.00
	Skill test, when applicable	2:00

Training Manual JUMP-PILOT, NEW AIRCRAFT

Edition 2 2022-05-02 Pelle Scherdin

3.3 Comprehension of sessions

X= Mainly trained in this sess	sion /= Part of session

X= Mainly trained in this session /= Part of session									
Item \ Training No	1	2	3	4	5	6	7	8	9
1 External and cockpit checks	X	/	/	/	/	/	/		
2 Starting of engine									
2.1 Normal starting procedure	X	/	/	/	/	/	/		
2.2 Malfunctions	X					/	/		
3 Taxiing	X	/	/	/	/	/			
4 Preflight check (including engine run-up and checks)	X		/	,	/				
5 Takeoffs	Λ		/		/				
	,	v	,	,	,	,			
5.1 Normal with different flaps settings	/	X	/	37	/	/			
5.2 Crosswind takeoff (if conditions available)				X	/	/			
5.3 Simulated Engine failure during takeoff and/or initial climb.					X	/	/		
6 Climb									
6.1 Best rate of climb/best angle of climb	/	/	X	/	/	/	/		
6.2 Power setting during climb	X	/	/	/	/	/	/		
6.3 Climbing turns (Vx/Vy) onto given headings	X			/		/	/		
6.4 Transition to level flight	X	/	/	/	/	/	/		
7 Flight exercises									
7.1 Horizontal flight at various speeds	/	X		/		/			
7.1.1 Slow-flight	1	X		,		/			
						/			
7.2 Steep turns 360° to the left and right at 45° bank angle		X				/			
7.3 Approach to stall speed or initiation of stall warning in:			X			/			
(c) Full stall straight and level flight, approach configuration, engine at									
idle and									
(d) Approach to stall - climbing turns at bank angles of 10° to 30°,			X			/			
takeoff flap, climb power.									
7.5 Simulated engine failure					X	/			
7.5.1 Optimum glide speed					X	/			
7.5.2 Pattern to a selected emergency landing area					X	,			
7.6 Simulated emergencies					X	,	/		
7.6.1 Fire or smoke in flight					X		,		
7.6.2 Loss of power					X		/		
7.6.3 Systems malfunction					X		,		
					X		,		
7.6.4 Static jump Hang-Up							/,		
7.6.5 Aborting dropp (due e.i. weather, descend and land w/full load					X	,	/		
8 Go-around / Engine out go-around		X			X	/			
9 Landings									
9.1 Normal landings	/	X	/	/	/	/			
9.2 Crosswind landings				X	/	/			
9.3 Landings without flaps				X					
9.5 Landing with engine out	/	/	/	/	X				
9.6 Landing with full load							/		
10 Instrument flight									
10.1 Level flight, straight ahead and turns					X				
10.2 Climb and descent					X				
10.3 Turns in climb and descent					X				
10.3 Turns in chinib and descent 10.4 Steep turns					X				
					X				
10.5 Slow flight									
10.6 Recovery from unusual attitudes, up-set recovery					X				
11 Flight by night (only if applicable)									
11.1 Normal traffic circuit									
11.2 Go-around									
11.3 Landing with landing lights off									
12 En Route Procedures									
12.1 Flight plan, dead reckoning and map reading				X					
12.2 Maintenance of altitude, heading and speed.				X					
12.3 Orientation, timing and revision of ETA:s				X					
12.4 Use of radio navigation aids				X					
				X					
					·	·		·	



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12.5 Flight management (flight log, routine checks including fuel, systems and icing.)

STUDENT RECORD FLIGHT TRAINING EXERCISES

PARA PILOT



Student.....

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Student name			
License No	Training for (rating)		
Address			
Phone	Home	Work	Mobile
Total hrs/rating			
Turbine/jet		Class/Type/-s	
Instrument			



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Comprehension of performed sessions

Date	Training No	Time	Total time	Landings	Remarks (not performed items etc.)



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Training no: 1	Performed date
Objectives:	Off block
Introduction of the aeroplane.	Off ground
Normal procedures	On ground
Engine start malfunctions.	On block
	Flight time
Planning: Practice area for airwork 2500-5000 ft.	Landings
Total 2:30 hrs whereof 1:15 airborne.	
Preflight: POH: A/C limitations, Performance, Fuel & oil capacity,	
Expanded checklist, Flight profiles, Power settings, Familiarization-time in	
A/C.	

Content:	Comments:
1: A/C FAMILIARIZATION. Preflight inspection; location	
of each items and purpose of inspection. Cockpit	
familiarization. Checklist.	
2: NORMAL ENGINE START PROCEDURES. Check of	
engine instruments. Actions in case of HOT or HUNG start.	
After engine-start checklist.	
3: TAXI. Power and taxi-speed. Use of controls. Turning in	
confined spaces. Demo A/C influence of wind.	
4: BEFORE TAKEOFF PROCEDURES. Checklist. Engine	
run-up. Before takeoff by-hart items: Trims - Flaps -	
Fueltransfer - Switches set. Takeoff briefing; Engine failure	
procedure.	
5: TAKEOFF AND CLIMB. Track during takeoff. Setting of	
MTOP. Acceleration and lift-off. Heading-track. Attitude-	
speed. Clean up and reading of checklist. Ball centered.	
Leveling off - power selection.	
6: STRAIGHT AND LEVEL FLIGHT. Power setting,	
speed and trimming. Instrument apparition. Rate one turns,	
30° bank turns. Coordinated flight, bank angle, rollout	
heading. Operation of flaps, effect on attitude and airspeed.	
Demonstration of engine failure by hart items. Use of cabin	
ventilation and heating systems.	
7: COORDINATION MANEUVERS. 80 Kt. Wingrocking.	
Turns to specific headings. Climbing and descending turns,	
500'/min. Power settings, altitude, coordinated flight.	
8: NORMAL APPROACH AND LANDING. Speed, power	
setting. Demonstration of landing attitude. If time permits:	
practice "full" takeoff and landings to taxi speed.	
9: AFTER LANDING AND PARKING PROCEDURE.	
Checklist. Parking. Engine cool-down. Securing of A/C.	
Entries in logbook.	
Advisory notes:	

Postflight: Power and steering during taxi. Reading of chec	klist. Order in cockpit. Power management. Nose
attitude during takeoff and landings.	

Req. Standard: Student must know expanded checklist and how to use it. Be able to fly the A/C within +/- 5 Kt, +/- 50' level flight and +/- 100' during turns. No "jerky" flying allowed!

Instructor	Student



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Training no: 2	Performed date
Objectives:	Off block
Continued introduction of the aeroplane.	Off ground
Practice of flying skills and precision.	On ground
Slow flight and recognition of imminent stall.	On block
	Flight time
Planning: Practice area for airwork 2500-5000 ft.	Landings
Total 2:00 hrs whereof 1.15 airborne.	
Preflight: POH: A/C limitations. Expanded checklist. Flight profiles.	
Power settings.	

Power settings.	
Content:	Comments:
1: PRESTART CHECKLIST AND NORMAL ENGINE	
START. Checklist. Starting procedures. Check of engine	
instruments.	
2: TAXI AND BEFORE TAKE-OFF PROCEDURES.	
Power and taxi-speed. (Taxi on the step). Use of controls.	
Checklist. Before take-off by-hart items. Take-off briefing	
3: TAKE-OFF AND CLIMB. Track during take-off, setting	
of take-off power, acceleration and lift-off, heading-track,	
attitude-speed, clean - up and reading of checklist.	
Coordinated flight?	
4: FLYING WITH DIFFERENT FLAP SETTINGS.	
Configuration changes. Ballooning effect, attitude, speed,	
aileron effectiveness.	
5: SLOW FLIGHT . Different flap settings, minimum speeds	
(stall warning or buffeting). Recognition of stall, precision in	
altitude, speed and heading.	
6: STEEP TURNS. 125 Kt. Speed, altitude, bank angle, roll	
out heading and power management. Coordinated flight.	
7: NORMAL APPROACH WITH LOW ALTITUDE GO-	
AROUND . Power management, attitude, speed, clean-up	
procedure. Coordinated flight.	
8: NORMAL TAKE-OFF AND LANDINGS. Checklist, by	
hart items, take off and landing technique.	
9: FULL STOP LANDING. Short final. By hart items.	
Speed over threshold, touchdown point. Landing and stopping	
technique, reverse. After landing and parking procedures.	
Advisory notes:	
Doctflichts Ainsmaß flying champatomistics configuration of	flow hallo anima affect mayyon flow 1
Postflight: Aircraft flying characteristics, configuration change	s, map banboning effect, power - map drag -

Postnight: Aircraft flying characteristics, configuration changes, flap ballooning effect, power - flap drag -
speed, use of power in different situations i.e. steep turns.
Reg Standard: No jerky flying is allowed Perform steep turns and slow flight +/- 100' slow flight speed +

Req. Standard: No jerky flying is allowed. Perform steep turns and slow flight +/- 100', slow flight speed +5/-0 Kt, coordinated flight at all times.

Instructor	Student



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Training no: 3	Performed date
Objectives:	Off block_
Practice maximum performance take off and climb.	Off ground
Learning the aircraft in stall situation and recovery.	On ground
Practice idle power, low speed and high speed descend.	On block
	Flight time
Planning: Practice area for airwork 2500-10000 ft.	Landings
Total 2:00 hrs whereof 1:15 airborne.	
<u>Preflight:</u> POH: Take-off and landing performance, stall speeds, engine	
limitations	

Innitations	
Combonts	Comments
Content:	Comments:
1: PRESTART CHECKLIST AND NORMAL ENGINE	
START. Checklist. Starting procedures. Check of engine	
instruments.	
2: TAXI AND BEFORE TAKEOFF PROCEDURES.	
Power and taxi-speed, use of controls, checklist, before take-	
off by-hart items. Take-off briefing.	
3: SHORT FIELD TAKE-OFF. Take-off technique, power	
setting, attitude, use of rudder. Transition to max climb.	
4: PRACTICE OF CLIMB Vx and Vy. Full power,	
attitude/speed, heading/use of rudder, transition to normal	
climb and climb power. Turns onto headings. Transition to	
cruise, cruise power setting.	
5: STALL AND STALL RECOVERY. Recognition of stall.	
Stall at different flap settings. Heading, altitude, power	
management. Full stall at straight and level flight, approach	
configuration. Stall with full power, climbing turns, takeoff	
flap. Recovery. Minimum loss of alt!	
6: IDLE POWER, HIGH / LOW SPEED DESCEND.	
High speed max Kt, R/D >3.000'/min. Low speed min 70	
Kt, observe attitude normal and R/D 2.000'/min. Recover!	
7: TAKEOFF AND LANDINGS. Use of references.	
Landing technique: Speed, attitude and rate of descend.	
8: PRECISION LANDINGS. Checklist, by hart items,	
landing technique in different wind conditions.	
9: AFTER LANDING AND PARKING PROCEDURE.	
Checklist. Parking. Engine cool-down. Securing of A/C.	
Entries in logbook.	
Advisory notes:	

Post	flight	: Vy	and	Vx, c	ompare	d to A/	C indiv	idual, s	tall-spii	ı situati	ion and	l recov	ery. T/O	performan	nce on	shor	:t
field																	
																	_

Req. Standard: Coordinated flight, speed at Vx and Vy +/- 2 Kt. (calm air), ability to recover from prestall and stall condition.

Instructor	Student
	Student



Edition 2 2022-05-02 Pelle Scherdin

Training no: 4	Performed date
Objectives:	Off block
Practice Take-off and landings.	Off ground
Normal and abnormal procedures.	On ground
Practice en route procedures.	On block
-	Flight time
Planning: Airfield for practice of take-off and landings.	Landings
Total 2:30 hrs of which 1:30 hrs airborne.	
Preflight: POH: Take-off and landing performance. Limitations.	
Planning. Weather, notams, flight plans.	

Planning. Weather, notams, flight plans.	
Content:	Comments:
1: PRESTART CHECKLIST AND NORMAL ENGINE	
START. Checklist. Starting procedures. Check of engine	
instruments.	
2: TAXI AND BEFORE TAKEOFF PROCEDURES	
Power and taxi-speed, use of brakes and steering use of flight-	
controls, checklist. Engine run-up. Before take-off by-hart	
items. Take-off briefing.	
3: NORMAL TAKE-OFF AND CLIMB. Take-off	
technique, speed and attitude, use of rudder, heading,	
coordinated flight.	
4: EN ROUTE PROCEDURES. Flight plan, dead reckoning	
and map reading. Maintenance of altitude, heading and speed.	
Orientation, timing and revision of ETA:s. Use of radio	
navigation aids. Flight management; flight log, routine checks	
including fuel, systems and icing.	
5: SHORT FIELD TAKE-OFF AND LANDINGS. Speed	
after lift-off, speed and height over threshold. Take-off and	
landing technique, braking technique, use of reverse.	
6: CROSSWIND TAKE-OFF AND LANDINGS. Checklist,	
by hart items, landing and braking technique.	
8: 0-FLAP LANDINGS. Demo: Take-off without flaps.	
Landing attitude, speed, landing technique.	
9: FULL STOP LANDING . Short final by hart items speed	
over "threshold", touchdown point, landing and stopping	
technique, reverse. After landing and parking procedures.	
Advisory notes:	
Postflight: Landing technique. Crosswind landings - limitations	s, power-off landings, use of brakes and steering.
Follow up of planning	

Postflight: Landing technique. Crosswind landings -	- limitations, power-of	f landings, use of b	rakes and steering
Follow-up of planning.			

Req. Standard: All flying with good precision, +/- 50' in the traffic pattern, speeds +/- 5 kts (-0 kts during approach) smooth corrections and coordinated flight.

Instructor	Student



Edition 2 2022-05-02 Pelle Scherdin

Training no: 5	Performed date
Objectives:	Off block
Demonstration and practice of malfunctions and corrective actions.	Off ground
Recovery from unusual attitudes.	On ground
Training of engine failure procedures.	On block
To train basic instrument flight	Flight time
Planning:	Landings
Practice area, for airwork, 2.500-10.000 ft, take-off and landings.	
Total 2:00 hrs of which 1:15 hrs airborne.	
<u>Preflight:</u> POH: Emergency procedures and repetition of previous training	
flights.	

Content:	Comments:
1: PRESTART CHECKLIST AND NORMAL ENGINE	Comments.
START. Checklist. Starting procedures. Check of engine	
instruments.	
2: TAKE-OFF WITH ENGINE FAILURE. Engine failure	
during initial climb, speed, by-hart items, handling of the	
aircraft, passenger briefing.	
3: ENGINE FAILURE AT "SAFE" ALTITUDE. By hart	
items, pax briefing, ATC com, Restart procedures. Heading	
and during restart.	
4: ABNORMAL PROCEDURES	
Use of emergency checklist. Fire or smoke in flight.	
Propeller feather.	
5: TAKE-OFF WITH ENGINE FIRE BEFORE LIFT-	
OFF . Heading, braking, fire-wind, by-hart items, pax briefing	
(After aircraft at standstill: "EMERGENCY-OPEN	
SEATBELT-GET OUT"!!!	
6: TAKE-OFF AND LANDINGS WITHOUT BASIC	
INSTRUMENTS. Use of attitude and "back-of-the-pants"	
flying skill.	
7: PRECAUTIONARY LANDING. Different altitudes	
check of approach and departure area.	
8: INSTRUMENT FLIGHT. Level flight, ON HEADING	
AND ahead and turns. Climb and descent. Turns in climb and	
descent. Steep turns and slow flight.	
9: ENGINE OUT APPROACH AND LANDING.	
Approach and landing with simulated engine failure	
10: AFTER LANDING AND PARKING PROCEDURE.	
Checklist. Parking. Engine cool-down. Securing of A/C.	
Entries in logbook.	
Advisory notes:	

Postflight: Engine failure in critical phases of flight, abnormalities, emergency evacuation, recognition of wind direction

Req. Standard: Student must demonstrate a good ability in handling the A/C in any difficult flight situation connected to an engine failure and to cope with procedures in checklist.

Instructor	Student
msu uctor	Student

Training Manual JUMP-PILOT, NEW AIRCRAFT

Training no: 6	Performed date
Objectives:	Off block_
To check if the student is ready to act as PIC under normal and abnormal	Off ground
situations.	On ground
Flying at Max gross mass, with passengers.	On block
(Dropping of parachute jumpers - technique.)	Flight time
Planning: Practice area, for airwork, 2500-5000 ft, take off and landings.	Landings
Total 1:15 hrs, of which 1:00 hrs airborne.	
<u>Preflight:</u> Repetition of all previous training flights, knowledge of the	
POH, Normal and Emergency checklist, Standard Operating Procedures	
(SOP). Pax safety briefing. (Procedures for dropping of parachute	
jumpers).	

(SOP). Pax safety briefing. (Procedures for dropping of paracl	nute
jumpers).	
Content:	Comments:
1: PRESTART CHECKLIST AND NORMAL ENGINE	
START. Checklist. Starting procedures. Check of engine	
instruments.	
2: PAX BRIEFING (AND JUMPMASTER	
COORDINATION).	
3: NORMAL TAKE-OFF AND CLIMB. Take-off	
technique, speed and attitude, use of rudder, heading,	
coordinated flight.	
4: FLYING AT MAX GROSS MASS. Normal flying, Rate	
one turn, 30° bank turn, 500'/min rate of climb and descend,	
Precision in flying: altitude, speed, heading and coordination	
5: MANEUVERS AT MAX GROSS MASS. Configuration	
changes, Steep turns, Slow flight, Stalls and Stall recovery	
6: TAKE-OFF AND LANDINGS AT MAX GROSS	
MASS. Differences from a "light" aircraft, use of power and	
attitude/speed.	
7: TAKE-OFF WITH SIMULATED ENGINE FAILURE,	
APPROACH AND GO-AROUND, ENGINE OUT	
APPROACH AND LANDING AT MAX GROSS MASS.	
Accuracy, handling of the aircraft, simulated engine failure	
and associated memory items. Pax briefing	
8: DROPPING OF PARACHUTE JUMPERS. Maximum	
performance climb to FL 130, final flying, "spotting".	
High speed descent. Traffic circuit, normal landing.	
9: AFTER LANDING AND PARKING PROCEDURE.	
Checklist, engine cool-down, securing of a/c, entries in	
logbook.	
Advisory notes:	
Postflight: (Open)	
Req. Standard: Student must show confidence and captaincy	as well as good flying skill and make prompt and
i item. Standard. Student must snow confidence and captainty of	as well as good frying skill and make prompt and

Postflight: (Open)	
Req. Standard: Student must show confidence and capt correct decisions.	aincy as well as good flying skill and make prompt and
Instructor	Student



Edition 2 2022-05-02 Pelle Scherdin

Training no: 7	Performed date
Objectives: Practice Normal and non-normal PARA operation, spotting	Off block_
technique, use of nav equipment, cooperation with lift-chef, simulated	Off ground
emergencies, aborting dropping, descending with jumpers onboard,	On ground
landing with full load.	On block
-	Flight time
Planning: Normal PARA operation, calculation of T/O and landing	Landings
perfomance	
Preflight: Check of mass and balance, required fuel, weather	

Content:
1: Check of area for eng start, coordination with ground crew,
normal and non-normal starting, radio check, initial taxi,
consideration of a/c position for loading, report from lift-chef,
check of mass and balance.
2: Line-up and take-off, checklist items, mental review of eng
fail procedure, go/stop, wind direction in case of fire, dep
clearance, xpdr, nav settings, next com freq?
3: Initial climb, mental review: where to go in case of eng fail,
power setting, noise, clean-up, speed, coordinated flight,
flying profile for first drop.
4: Approaching altitude and final track, clearance to drop,
distance, speed, configuration, power setting, at "green light"
anticipate trim changes, steady flying; heading, speed/attitude
and wings level, if climbing to new altitude: power, clean-up,
speed and attitude, trimming.
5: As 4: above, drop completed, prepare for descend, closing
jump door, power setting, speed. Flight profile for descending,
engine temp monitoring, look out for other traffic and
wingsuits, high parachutes.
6: Drop aborted, descending with a full load, tandem,
students, cypress, cooperation with lift chef and jump leader,
landing, taxi, engine shut down, de-embarkation.
7: Practice with experienced jumpers only: Simulated
emergency on ground, on pilot's order only; EMERGENCY-
OPEN SEATBELT-GET OUT!
8: Practice with experienced jumpers only: Simulated engine
failure after T/O, (safe altitude but below 1000 ft / 300 m),
Pilot's order: REMAIN SEATED-WE ARE LANDING!
9: Practice with experienced jumpers only: Simulated engine
failure at altitude, Pilot's order: REMAIN SEATED! Memory
items performed and heading to a landing area: WE WILL
GLIDE TO! Then: "green light" or order: OPEN SEAT
BELT-GET OUT!
Advisory notes:
Postflight:
Req. Standard:

Student

Instructor_____

Svenska Fallskärmsförbunde
II IMP-PII OT

aining no: 8	Performed date
Objectives: Additional training if so required.	Off block
Additional training if so required.	Off ground
	On ground
	On block
	Flight time
Planning:	Landings
Preflight:	
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Svenska Fallskärmsförbundet
II IMP-PII OT

Instructor_____

Training Manual JUMP-PILOT, NEW AIRCRAFT

-	
Training no: 9	Performed date
Objectives	Off block
Objectives:	
Additional training if so required.	Off ground
	On ground
	On block
	Flight time
Planning:	Landings
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Preflight:	
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Postflight:	
Req. Standard:	

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