

# SkyTrikes Lesson Plan

## Training Schedule

## Lesson Plans

Lesson	Practical lesson	Theory lesson
	Trial Instructional Flight (Back Seat lessons 1-7)	Uses of a Microlight
		Aircraft familiarisation
	Before any training commences a waiver must be signed and membership requirements filled	Basic Aeronautical Knowledge
		How Weightshift Microlight aircraft fly
1	Pre flight	Pre-flight/post flight actions
	Taxi Work (Front Seat)	Pre-flight inspection
		Airfield familiarisation/operations
2	Instructor takes off and climbs to 500 ft before giving flight controls to student	Pre start-up checks
	Straight & level	Starting & warming the engine
	Follow river-road-railway at 700 feet AGL	Pre-takeoff checks - QNH setting
	Smooth air (Instructor has throttle/energy control)	Emergency procedures
	Student understands datum line/horizon	Documentation
	Instructor demonstrates; power for energy, controls for attitude/direction (aircraft flies itself, pilot controls where they want it to go)	Basic weather awareness
3	Straight and level / climbing and descending / turning / slow-fast flight	Effects of control
	Main exercise - follow river-road-railway at 700 to 1000 feet AGL - Understands wind correction angle / tracking (Student has throttle/energy control) (Turn left-look left clear right)	Basic aerodynamics - rules of the air
	<i>Student is ready to proceed to lesson 4 when they can follow directly over the river-road-railway while maintaining 700 ft AGL at slow and fast flight in light turbulence and can demonstrate tracking ability and has a good understanding of the theory so far. Student is able to judge airspeed by the feel of the controls.</i>	Human factors
4	Take offs and circuits / climbing and descending turns	Circuit and radio procedures / calls
		Maintenance
5	Circuits and low level	Principles of flight
	Low level ops to comfort of student / getting lower with students comfort level	Low and slow in you will go, low and fast you will last
	<i>Student is ready to proceed to lesson 6 when they can take-off correctly and can hold a good climbing attitude and direction with good energy control, line up the runway in different wind direction (drift). Has good energy management and is able to hold good attitude-speed-direction and can maintain accurate circuit height and direction at low level -5 ft. Can do all this in light to moderate turbulence. Student has a good understanding of the theory so far.</i>	
6	Landings / powered and unpowered - approach at different angles of descent and at different airspeeds (Touch and goes) Short field take off and landings	Basic aeronautical knowledge / weather
		Radio calls
7	Emergency landings / Precautionary Search & Landings	Pre-solo exam
	Understands adverse weather conditions	
8	Stalls and unusual attitude recovery - tight turns (stalls can be demonstrated at any time)	
	<i>Student can attempt solo flight when they are accurate at all manoeuvres and can land with and without power in light to moderate turbulence and cross-wind conditions and can recover from a simulated engine failure at 100 ft and be able to land in a given 100 ft area from a simulated engine out at heights from 500 ft AGL to 1500 ft AGL from different parts of the circuit. Must be able to approach, join and complete an accurate circuit at 3 different airfields. Can demonstrate recovery from stalls and unusual attitudes. Must have passed the Pre-solo exam. KEEPS A GOOD LOOKOUT. Student agrees that they are ready for solo.</i>	
9 FS	First Solo (2 low levels and 1 landing) with supervision with radio - SMOOTH AIR No more flights that day	
9	minimum 5 hr - Solo consolidation - directly supervised with radio - watching for formation of bad habits	
10	Pilot Certificate test (Student can obtain their Pilot certificate once they have demonstrated all phases of the syllabus accurately and has passed the Pilot Certificate Exam)	Pilot Certificate exam
	Radio Endorsement	Radio Exam
11	Cross country (Local area, map/ground exercise)	XC planning, map reading, calculating, cockpit navigation requirements
12	Cross country (with Instructor) and danger areas, flight height requirements XC exam	Planning for flight - checking for active restricted
	<i>To precede to lesson 13 the student must be able to navigate by the sun, terrain, and using map ground references, understands the use of a compass, and is able to calculate speed, time, distance, fuel, wind. Must have passed the XC exam.</i>	
13	Cross country (Without Instructor)	
14	XC endorsement is issued when they can demonstrate ability to accurately plan and carry out a out and return journey comprising of at least a 2 hour flight with one out landing.	
15	Passenger Endorsement Phases 1 to 34 Passenger security - medical certificate obtained	Flight Test