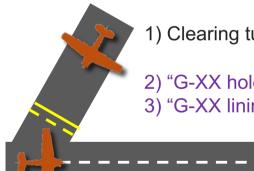
Exercise 12 & 13 - Circuits

Ex 12 (Part 1) - Takeoff and Climb

AIM: LEARN HOW TO TAKE OFF AND FLY A NORMAL CIRCUIT TO X WIND POSITION

- **OTHER AIRCRAFT**
- AIRSPEED, EXCESSIVE YAW
- GOOD LOOKOUT, USE OF RUDDER



- 1) Clearing turn
- 2) "G-XX holding at X, ready for departure"
- 3) "G-XX lining up Runway XX"

14) 300' Flaps UP



- 5) Feet clear of brake
- 6) Slowly apply full power
- 7) Maintain centreline with [right] rudder
- 8) "RPM in green, T&Ps in green, airspeed increasing"
- 9) Looking down runway

- 10) 55 kts gently raise the nose & HOLD
- 11) Once airbourne, relax back pressure
- 12) **D** Maintain runway track
- 13) **A -** Climb at 70 kts
- 14) B Ball in the middle

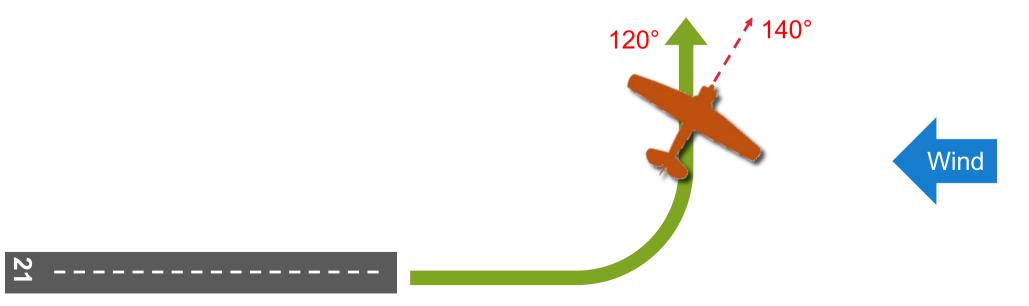


- 15) Lookout find wingtip reference
- 16) 500' 15° AOB climbing turn

Ex 12 (Part 1) - CrossWind

AIM: LEARN HOW TO TAKE OFF AND FLY A NORMAL CIRCUIT TO X WIND POSITION

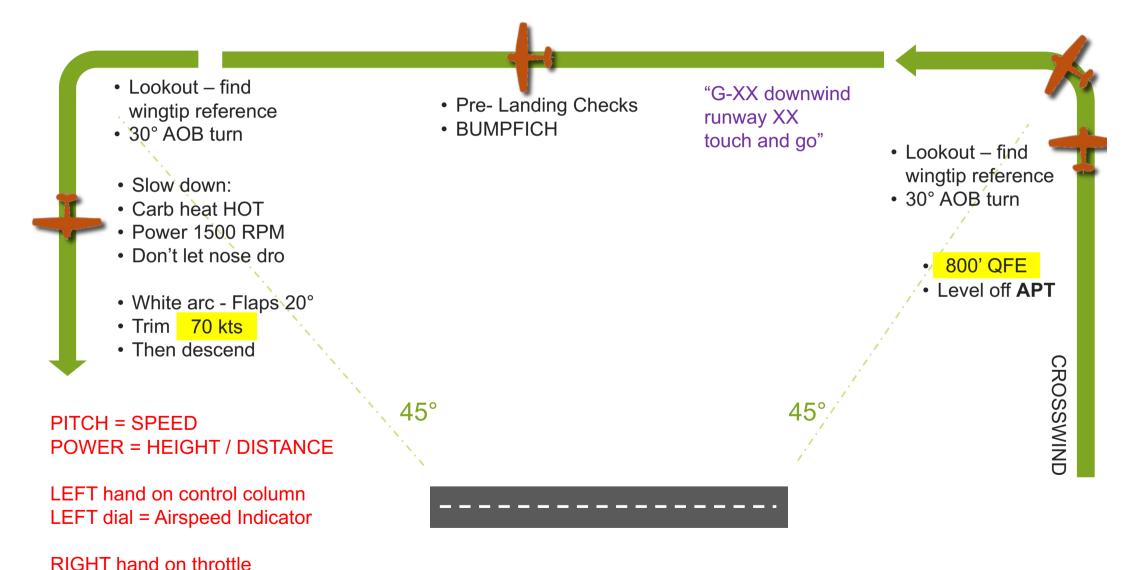
- WIND AT >500FT IS OFTEN 2X WIND SPEED GIVEN BY TOWER
- 10 knots on nose on ground = 20 knots crosswind on crosswind & base
- 20 knots crosswind at 70 knots climb speed = 18° crab angle needed



Ex 12 (Part 1) - Crosswind - Downwind - Base

AIM: LEARN HOW TO FLY FROM X WIND POSITION TO BASE

RIGHT dial = Altimeter / VSI



DOWNWIND PRE-LANDING CHECKS

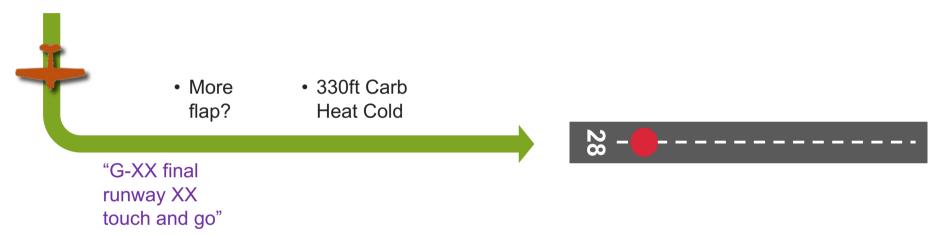
BUMPFICH

В	Brakes	Parking break is offPressure in the toe breaks
U	Undercarriage	Undercarriage is down and lockedLanding light is on
M	Mixture	Mixture is richMagnetos are on both
P	Props	Props are fine / fixed
F	Fuel	 Fuel tap is on Fuel pump is on Fuel quantity is sufficient Fuel pressure is in the green
- 1	Instruments	DI is aligned to the compassQFE is set
Т	T's & P's	Engine T&Ps are in the green
C	Carb Heat	De-ice the carburettor
Н	Atches / Harnesses	Hatches and harnesses are secure

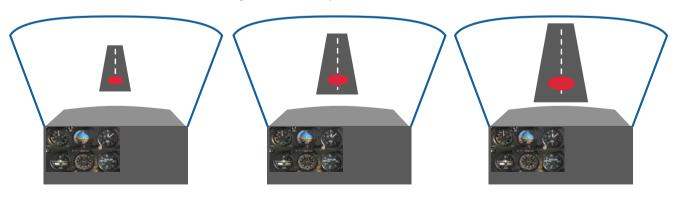
EX 12 (PART 1) -BASE - FINAL APPROACH

AIM: LEARN HOW TO FLY BASE TO SET UP FINAL APPROACN

- Lookout
- Turn onto centre line
- Approx 500-600ft



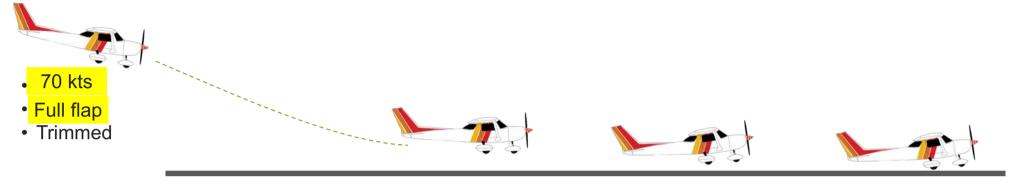
Runway in same position in window



PITCH = SPEED POWER = HEIGHT / DISTANCE

Ex 13 (Part 2) – Landing

AIM: LEARN HOW TO FLY BASE TO SET UP FINAL APPROACN



- Smoothly close throttle
- Hold nose from dropping
- Round out to S&L attitude
- Gradually raise nose to horizon
- Throttle FULLY closed
- Progressive back pressure to keep nose on horizon as aircraft sinks







ADVANCED CIRCUITS

- CROSS WIND TAKEOFF
- ABANDONED TAKE OFF
- EFATO
- Go around
- CROSS WIND LANDING
- FLAPLESS LANDING
- GLIDE APPROACH LANDING