Climbing & Descending

Demonstrate Climb (5200rpm)
LPAT
Check T's & P's (500ft)
Level Off LAPT

Demonstrate Descent (4000rpm)
LPAT
Check T's & P's (500ft)
Level Off LPAT

Student to demonstrate Climb
5200rpm @ 85kts
Get them to work out how
to increase ROC at same RPM

Student to demonstrate Descent
4000rpm @ 90kts- 500ft
Get them to work out how
to increase ROD at 90kts

Summary: Power controls ROD & ROC
and Attitude controls Airspeed

Now show me a decent at 200ft per minute while maintaining 90kts

STRAIGHT & LEVEL

HORIZON / DEFINITION / +STABILITY

VISUAL REF / INSTRUMENT REF

Demonstrate SLIP INDICATOR

STUDENT TO FLY S&L FOR A FEW MIN.

INSTRUCTOR TO DISPLACE AIRCRAFT
Climb - Student gets it S&L
Roll - Student to get it S&L

DEMONSTRATE @ VARIOUS IAS
4000rpm / 5200RPM

Summary: LOW POWER HIGH AOA FOR S&L
HIGH POWER LOW AOA FOR S&L

INSTRUCTOR CONTROLS POWER
STUDENT CONTROLS COLUMN @ VARIOUS AIR SPEEDS

STUDENT THEN CONTROLS BOTH POWER AND STICK @ VARIOUS AIRSPEEDS

THEN HEAD TOWARDS GLASSHOUSE TO EXPERIENCE ROUGHER AIR

Effects of Controls

HORIZON / ATTITUDE / +STABILITY

INSTRUCTOR TO DEMO THEN STUDENT

ELEVATOR / REARWARDS/ FORWARDS
SUMMARY - PRIMARY / ELEVATOR / PITCH

AILERON / RIGHT / LEFT
SUMMARY - PRIMARY / AILERON / ROLL

RUDDER / RIGHT / LEFT
SUMMARY - PRIMARY / RUDDER / YAW

FURTHER EFFECTS - INSTRUCTOR / STUDENT

ELEVATOR / REARWARDS/ FORWARDS
SUMMARY - FURTHER / PITCH / SPEED

AILERON / RIGHT / LEFT
SUMMARY - SECONDARY / ROLL / SLIP

RUDDER / RIGHT / LEFT
SUMMARY - SECONDARY / YAW / ROLL

AIRFLOW / LOW SPEED / CONTROLS
SUMMARY - LESS RESPONSIVE / SLOPPY

AIRFLOW / HIGH SPEED / CONTROLS
SUMMARY - MORE RESPONSIVE / FIRM

POWER & PROP / LOW SPEED / HIGH SPEED
SUMMARY - HIGH POWER / UP / LEFT
LOW POWER / DOWN / RIGHT

ANCILLORY CONTROLS - POWER / TRIM

POWER / FORWARD / RPM INCREASE
/ REARWARD / RPM DECREASE

TRIM / DOWN / NOSE PITCH DOWN
/UP / NOSE PITCH UP

FLAP / FLAP IS A LIFT GENERATING DEVICE
LAND AT LOWER SPEED

TURNING

Demonstrate Right Hand Gentle Turn
- LPAT
- Move Control Column right
- Bring Control Column to neutral
- Keep Eyes forward
- Attitude / Look / Airspeed
- Attitude / Look / Bank Angle
- Attitude / Look / VSI
- Control Column left / Left Rudder
- Wings level with horizon
- Adjust Attitude

Demonstrate Left Hand Gentle Turn
Student to have a go Right then Left turn

Demonstrate no Rudder coming out of turn.

Demonstrate Spiral Descent.

Demonstrate Steep Turn
Student to have a go at a 45 degree turn

Demo Climbing and descending turns
Student to have a go

Student to follow beach back to aerodrome

STALLS

HASSELL CHECKS

Height	Airframe
Security	Switches
Engine	Location
Lookout	

STALL SYMPTOMS
- Slow IAS
- Sloppy Controls
- High AoA
- Buffet

RECOVERY
- Move Control column forward
- Above 60kts in the Sling
- Raise the nose

- When level with Horizon
- Full Power / Adopt Climb Attitude

- Make sure you are in balance

If one wing stalls use opposite rudder to the stalled wing. No Aileron

If Flap extended, retract in stages

CIRCUITS

Pre take off safety brief
Rudder Straight with centre line
Rolling Call
Advance throttle over 3-5 seconds
Rudder to maintain centre line
Airspeed alive / rotate after 60kts
300ft Flaps up
Climb attitude of 70kts
700ft turn crosswind
1000ft in circuit
45 degree with runway turn downwind
Power back to 4600rpm
Downwind checks
Abeam threshold reduce power to 2800rpm
Below 80kts 1st Stage flaps
45 degrees turn base / make radio call
Halfway down base 2nd stage flaps
Turn on to final
Maintain centreline with rudder
Below 300ft wings level with Aileron
Use rudder to maintain centreline
Reduce power to idle over threshold
10ft eyes to end of runway and hold
Retract to 1st Stage Flap / Trim / Fullpower

EMERGENCY PROCEDURES

Seven S's
Shape Size Slope Surface Situation
Stock Services

ENGINE FAILURE
- Adopt Best Glide speed 70kts
- Turn towards Pre-selected field
- Restart Checks
- Mayday Call
- Passenger Brief
- Make safe checks

PRECAUTIONARY SEARCH
- Pre-select field with over/undershoot
- Pan Call
- Fly circuit at 1000ft
- Fly circuit at 500ft
- Fly circuit at 200ft

Return to circuit height and fly circuit
Make Safe before landing

Contact Brisbane Centre on the ground