

CPL LESSON 111

INSTRUMENT FLIGHT – C172 LIMITED PANEL & UNUSUAL ATTITUDES

Elements		Performance Criteria	Std Rqd	Std Achieved
A8.1	Recognise Failure of instruments	Monitors flight instruments and instrument power sources, recognises warning indicators or erroneous instrument indications and transitions to instrument flight by reference to limited panel flight instruments.	1	
A8.2	Perform manoeuvres on limited panel	<p>Interprets and reacts appropriately in the time available to flight instrument indications to achieve and maintain specified flight profiles using limited instrument panel</p> <p>Sets and maintains power and attitude by reference to limited instrument panel to achieve straight and level performance during:</p> <p>normal cruise (± 200 ft $\pm 15^\circ$ ± 10 kts or $\pm M.02$)</p> <p>in an aeroplane-approach configuration with flap (when fitted) and undercarriage down (± 200 ft $\pm 15^\circ$ ± 10 kts nominated speed but not below minimum approach speed)</p> <p>in a helicopter-at minimum power for level flight speed (± 10 kts)</p> <p>Sets and maintains power and attitude by reference to limited instrument panel to achieve nominated climb performance ($\pm 5^\circ$ ± 5 kts M.01)</p> <p>Sets and maintains power and attitude by reference to limited instrument panel to achieve nominated descent performance ($\pm 15^\circ$ ± 10 kts or $\pm M.02$ ± 200 ft per minute)</p> <p>Sets and maintains power, attitude and bank during climb, descent and straight and level flight by reference to limited instrument panel to achieve rate one turns onto a nominated heading ($\pm 20^\circ$ on exit then $\pm 15^\circ$)</p> <p>Balances aircraft</p> <p><u>Trims aircraft</u> during straight and level, descending and climbing flight</p> <p>Level aircraft at a nominated altitude (± 200 ft), from a climb or descent during straight or turning flight.</p>	1	
A8.3	Recover from unusual attitudes using limited panel	<p>Identifies uncontrolled flight involving high and low nose attitudes, varying angles of bank and power settings and unbalanced flight and resumes controlled flight by reference to flight instruments using a limited instrument panel</p> <p>Achieves straight and level attitude without excessive oscillations at the horizon (± 300 ft of height at which aircraft nose first passed through horizon then ± 200 ft of nominated altitude).</p>	1	
A8.4	Re-establish visual flight following inadvertent entry into IMC	<p>Performs or simulates involuntary transition from visual flight conditions to instrument meteorological conditions (IMC), identifies loss of visual reference and manoeuvre aircraft to re-establish VFR flight by reference to flight instruments using a limited instrument panel</p> <p>Develops a plan that ensures re-establishment of VFR.</p>	1	

I have completed the training specified in the elements, which have been certified on this Achievement Record

Candidate's Signature _____

Date _____

Instructor's Signature _____

Date _____