

# CPL LESSON 109

## INSTRUMENT FLIGHT - C172 NDB & VOR YRED - KCY - MLY - YRED

Elements		Performance Criteria	Stnd Rqd	Stnd Achieved
C3.1	Use R / T Equipment	<p>Ensures serviceability of radiotelephone equipment.</p> <p>Conducts transmission and receipt of R/T messages in accordance with procedures and phraseology detailed in the FROL syllabus and Aeronautical Information Publications (AIP).</p> <p>Maintains a listening watch and responds appropriately to applicable transmissions.</p> <p>Performs loss of radio transmitter or receiver procedures in accordance with AIP, ERS(A), VFR Flight Guide.</p> <p>Conducts emergency and urgency transmissions and procedures in accordance with Enroute Supplement Australia (ERS(A) current edition) and AIP and all messages are reacted to appropriately.</p>	2	
C3.2	Maintain R / T Equipment	<p>Performs R/T equipment failure procedures in accordance with Flight Manual/POH</p> <p>Employs fault finding procedures and corrective actions not involving special tools or instruments</p>	2	
C3.3	Operate transponder	Operates and monitors transponder in accordance with AIP during normal, abnormal and emergency operations.	2	
C8.8	Use Radio navigation Aids	<p><b>Candidate able to track using VOR &amp; NDB navigation aids with wind and make all intercepts</b></p> <p>Tunes, identifies and tests all navigation aids before use.</p> <p>Determines aircraft is within rated coverage of applicable radio navigation aids</p> <p>Fixes aircraft position and solves aircraft orientation problems using radio navigation aids</p> <p>Tracks/homes to the ground station</p> <p>Verifies integrity of GPS signal</p> <p>Enters and checks waypoint entry into GPS system</p> <p>Confirms waypoints and fixes from all radio navigation aids with flight plan and identified ground fixes during en route navigation at least once every 60 minutes.</p>	2	

Elements		Performance Criteria	Std Rqd	Std Achieved
A7.1	Determine & monitor serviceability of flight instruments	<p>Determines serviceability of flight instrument, pitot/static system and instrument power sources in accordance with Flight Manual/POH, before flight</p> <p>Performs functional checks of turn, heading and attitude indicators while taxiing</p> <p>Monitors flight instrument and instrument power sources and reacts appropriately to any warnings, unserviceabilities or erroneous indications.</p>	1	
A7.2	Perform manoeuvres on full panel	<p>Interprets and reacts appropriately to flight instrument indications to achieve and maintain specified flight profiles using full instrument panel</p> <p>Sets and maintains power and attitude by reference to full instrument panel to achieve straight and level performance during normal cruise (<math>\pm 200</math> ft <math>\pm 10^\circ</math> <math>\pm 10</math> kts)</p> <p>Sets and maintains power and attitude by reference to full instrument panel to achieve nominated climb performance (<math>\pm 10^\circ</math> <math>\pm 5</math> kts)</p> <p>Sets and maintains power and attitude by reference to full instrument panel to achieve descent performance (<math>\pm 10^\circ</math> <math>\pm 10</math> kts <math>\pm 200</math> ft/min)</p> <p>Sets and maintains power, attitude and bank during climb, descent and level flight by reference to full instrument panel to achieve rate one turns onto a nominated heading (<math>\pm 10^\circ</math> on exit)</p> <p>Balances aeroplane</p> <p>Trims aeroplane</p> <p><b><u>Recover from unusual attitudes</u></b></p> <p>Identifies uncontrolled flight involving high and low nose attitudes, varying angles of bank and power settings and unbalanced flight and resumes controlled flight</p> <p>Re-establish flight by visual reference</p> <p>Performs or simulates involuntary transition from visual flight conditions to instrument meteorological conditions (IMC), identifies loss of visual reference and manoeuvres aeroplane to re-establish VFR flight</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 \_\_\_\_\_