

# CPL LESSON 108

## INSTRUMENT FLIGHT – C172 VOR YRED - MLY – YRED

Elements		Performance Criteria	Std Rqd	Std Achieved
C2.1	Complete pre and post flight administration	<p><b><u>Pre flight</u></b></p> <p>Obtains, interprets and applies meteorological and NOTAM information</p> <p>Completes pre-flight planning and documentation in accordance with regulations and/or operations manual</p> <p>Calculates aeroplane take-off and landing performance in accordance with performance and weight and balance charts</p> <p>Selects optimum cruise altitude determined by operational, <u>safety</u><sup>2</sup> or efficiency requirements</p> <p>Interprets maintenance release (Flight Technical Log) and Minimum Equipment List (MEL) and determines aircraft serviceability for proposed flight.</p> <p><b><u>Post flight</u></b></p> <p>Completes flight maintenance release (Flight Technical Log) and flight administration and enters identified unserviceabilities in accordance with regulations and/or operations manual.</p>	1	
C2.2	Perform pre flight inspection	<p>Identifies and secures equipment and documentation as required by regulation in the aircraft</p> <p>Completes internal and external checks in accordance with approved checklist</p> <p>Ensures removal of all aircraft locking devices</p> <p>Identifies defects or damage to the aircraft that could compromise safety</p> <p>Certifies Flight Technical Log entering any defects or endorsements to Permissible Unserviceabilities (PUS)</p> <p>Completes and certifies daily inspection..</p>	1	
C8.8	Use Radio navigation Aids	<p><b>Candidate able to track using VOR navigation aids with wind and make all intercepts</b></p> <p><b>Candidate to measure magnetic tracks</b></p> <p><b>YRED – MLY – YRED</b></p> <p><b>for use during this sequence</b></p> <hr/> <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	

<sup>2</sup> Means that a manoeuvre or flight is completed without injury to persons, damage to aircraft or breach of aviation safety regulations, while meeting the requirements of the Manual of Standards Part 61.

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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 \_\_\_\_\_