

UNIT 1.08 – LOW LEVEL ENDORSEMENT SYLLABUS

ELEMENT: 1. LEGAL REQUIREMENT

Flying Standard	Pilot Certificate	Inst Rating
1.1 RA-Aus Operations Manual (OM)		
<ul style="list-style-type: none"> • Pilot demonstrates knowledge of the OM requirements in regard to low flying 	2	1
1.2 CAR, CASR, CAO 95.55, 95.32, 95.10		
<ul style="list-style-type: none"> • Pilot demonstrates knowledge of the legal requirements in regard to low flying 	2	1

ELEMENT: 2. AEROPLANE HANDLING

Flying Standard	Pilot Certificate	Inst Rating
2.1 General aeroplane handling at altitude		
<ul style="list-style-type: none"> • Level turns up to 60° AoB • Climbing turns beyond 15° AoB for terrain obstacle clearance • Descending turns up to and including 60° AoB 	2 2 2	1 1 1
2.2 Stall symptoms and recovery at altitude		
<ul style="list-style-type: none"> • Stall symptom recognition and recovery straight and level • Stall symptom recognition and recovery up to 60° AoB 	2 2	1 1
2.3 Advanced manoeuvres at altitude		
<ul style="list-style-type: none"> • Slow flight • Use of flaps for improved visibility and effects of changing flap setting in flight • Methods of losing height • Manoeuvring at varying airspeeds and angle of bank • Visual lookout and scan technique – not to fixate on target objects 	2 2 2 2 2	1 1 1 1 1

ELEMENT: 3. FACTORS AFFECTING SAFETY DURING LOW LEVEL FLIGHT

Flying Standard	Pilot Certificate	Inst Rating
3.1 The effects of wind		
<ul style="list-style-type: none"> • Turning to downwind into wind – apparent slip and skid • Maintaining balance • Power control • Effect of drift • Wind gradient • Effect of wind circulating over undulating country • Avoidance of dust devils • Additional caution required when adverse weather approaching 	2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1
3.2 The effects of turbulence		
<ul style="list-style-type: none"> • Mechanical turbulence • Convection Turbulence • Frontal turbulence 	2 2 2	1 1 1
3.3 Effect of light on hazard sighting		
<ul style="list-style-type: none"> • Poor light – no shadows – easier to hit obstacles • Flying into sun – vision affected 	2 2	1 1
3.4 Lookout		
<ul style="list-style-type: none"> • Scan technique used • Lookout conducted before turns with regard to obstacles • Keep head out of cockpit 	2 2 2	1 1 1
3.5 Obstacles		
<ul style="list-style-type: none"> • Power lines, visual identification from the air, pre-flight large scale map checks, talk to property owners • Dangers of new wires and obstacles • Types of power lines • Pre-construction test towers for wind farms & wind farms • Coal gas burn off chimneys - avoid 	2 2 2 2 2	1 1 1 1 1
3.6 Bird Behaviour		
<ul style="list-style-type: none"> • Individual • Flocks of Birds • Understand migratory patterns 	2 2 2	1 1 1

ELEMENT: 4. LOW FLYING

Flying Standard	Pilot Certificate	Inst Rating
4.1 Low level flight over flat terrain		
<ul style="list-style-type: none"> • Use of power • Use of airspeed – avoid slowing down when flying downwind • Use of trim • Lookout and scan techniques – avoid target fixation • Recognition of height at low level – less stress when flying slightly higher • False horizons • Dangers of flying over calm bodies of water 	2 2 2 2 2 2 2	1 1 1 1 1 1 1
4.2 Low level flight over undulating terrain		
<ul style="list-style-type: none"> • Anticipating the change in airspeed and power required • Recognition of anticipation at higher aeroplane weights • Effects of high density altitudes • Assessment of the wind • Always having an escape route 	2 2 2 2 2	1 1 1 1 1
4.3 Low level medium turns <45° AoB		
<ul style="list-style-type: none"> • Lookout with reference to changing contours, obstructions and bird hazards • Use of power • Aeroplane balance • Wind drift • Consistent Height 	2 2 2 2 2	1 1 1 1 1
4.4 Low level steep turns 45°- 60° AoB		
<ul style="list-style-type: none"> • Lookout • Use of power • Aeroplane balance • Wind drift • Consistent height 	2 2 2 2 2	1 1 1 1 1
4.5 Max rate / min radius turns at MTOW		
<ul style="list-style-type: none"> • Effects of Density Altitude on performance • Pre-stall recognition and recovery • Use of power 	2 2 2	1 1 1
4.6 Slow flight		
<ul style="list-style-type: none"> • Use of flaps and effects of changing flap setting in flight • Maintaining adequate airspeed above the stall during manoeuvres • Use of trim 	2 2 2	1 1 1

4.7 Methods of losing height		
<ul style="list-style-type: none">• Use of flap and power• Use of sideslip	2 2	1 1
4.8 Emergency procedures		
<ul style="list-style-type: none">• Engine failure at low level• Bird strike / obstacle strike - immediate actions• Loss of visual reference	2 2 2	1 1 1

-End of Low Level Endorsement Syllabus-