

# Table of Contents

<b>PRELIMINARY RULES</b>	<b>15</b>
Application of Part 91 – Australian aircraft in Australian territory (91.005).....	16
Application of Part 91 – Australian aircraft over the high seas (91.015).....	16
Application of Part 91 – Australian aircraft in foreign countries (91.010) .....	16
Application of Part 91 – foreign-registered aircraft (91.020).....	16
Application of Part 91 – foreign-state aircraft (91.025).....	16
Disapplication of Part 91 to Part 101 aircraft (91.030).....	16
Application of Part 91 to Part 103 operations (91.030).....	16
Application of Part 91 to Part 131 operations (91.030).....	17
Application of Part 91 – certain provisions of this Part do not apply if provisions of Parts 105, 121, 133, 135 or 138 apply (91.035).....	18
Issue of Manual of Standards for Part 91 (91.040).....	20
Approvals by CASA for Part 91 (91.045).....	20
<b>GENERAL RULES</b>	<b>21</b>
<b>1. Documentation.....</b>	<b>22</b>
Carriage of documents (91.105).....	22
Carriage of documents for certain flights (91.110).....	22
Carriage of documents for flights that begin or end outside Australian territory (91.115).....	22
Electronic documents (91.100).....	22
Journey logs – flights that begin or end outside Australian territory (91.120) .....	23
Compliance with flight manual (91.095) .....	23
Reporting and recording defects and incidents (Division 91.C.4).....	23
<b>2. Flight crew and operator obligations .....</b>	<b>24</b>
Aircraft not to be operated in manner that creates a hazard (91.055) .....	24
Requirements to be met before Australian aircraft may fly (91.145) .....	24
Authority and responsibilities of pilot in command (91.215) .....	24
Actions and directions by the operator or pilot in command (91.220) .....	24
Operating an Australian aircraft outside Australia (91.140) .....	25
Operating aircraft with inoperative, equipment – placarding (91.150) .....	25
Seating for flight crew members (91.550) .....	26
Manipulating flight controls (91.155) .....	26
Operation of portable electronic devices (91.170) .....	26

Multi-engine aircraft – pilot in command to land at nearest suitable aerodrome if emergency occurs (91.685) .....	26
Air defence identification zone flights (91.263) .....	27
Availability of instructions for flight data and combination recorders (91.645) .....	27
Flight recorders – preserving recordings of immediately reportable matters (91.650) .....	27
<b>3. Training.....</b>	<b>28</b>
Audit, examination and training flight limitations (91.725) .....	28
Audit, examination, operator training and record keeping (EX81/21) .....	28
Limiting the carriage of persons during audit, examination and training.....	29
<b>Causing or simulating engine failures – aeroplanes.....</b>	<b>30</b>
Causing or simulating failure of flight instruments (91.715) .....	30
Simulating IMC flying (91.720) .....	30
Aeroplane flights in IMC or at night – engine not to be shut down (91.730) .....	30
Single-engine aeroplane – VFR flights by day – engine not to be shut down (91.735) .....	30
Single-engine aeroplane – simulating engine failure in IMC or at night (91.740) .....	30
Multi-engine aeroplane – simulating engine failure – general (91.745) .....	31
Multi-engine aeroplane – simulating engine failure in IMC or at night (91.750) .....	31
<b>Causing or simulating engine failures - rotorcraft.....</b>	<b>32</b>
Single-engine rotorcraft – engine not to be shut down (91.755) .....	32
Single-engine rotorcraft – engine failure not to be simulated and autorotation of main rotor system not to be initiated in IMC (91.760).....	32
Single-engine rotorcraft – simulating engine failure or initiating autorotation of main rotor system at night (91.765).....	32
Multi-engine rotorcraft – engine not to be shut down at certain altitudes in IMC or at night (91.770).....	32
Multi-engine rotorcraft – simulating engine failure in IMC or at night (91.775).....	33
<b>4. Crew member obligations.....</b>	<b>33</b>
Crew members to be fit for duty (91.520) .....	33
Crew safety during turbulence (91.535) .....	34
Seating for crew members other than flight crew members (91.555).....	34
Cabin crew – when required (91.820) .....	34
Cabin crew – number (91.825).....	34
Cabin crew – knowledge of emergency and safety equipment and procedures (91.830).....	34
Operation of portable electronic devices by crew members (91.175).....	35
Crew – provision of alcohol (91.785) .....	35
Crew members – power of arrest (91.225).....	35

<b>5. Safety of persons and cargo</b> .....	<b>35</b>
Offensive or disorderly behaviour on aircraft (91.525).....	35
When smoking is not permitted (91.530) (s37 Air Navigation Regulations 2016) .....	35
Means of passenger communication (91.540).....	36
Persons not to be carried in certain parts of aircraft (91.200) .....	36
Seating for persons on aircraft (91.545).....	36
Restraint of infants and children (91.560).....	37
Passengers – safety briefings and instructions (91.565) .....	38
Passengers – safety directions by pilot in command (91.570).....	39
Passengers – compliance with safety directions (91.575).....	39
Passengers – compliance with safety instructions by cabin crew (91.580) .....	39
Passengers – alcohol (91.780) .....	39
Prohibiting person affected by psychoactive substances from boarding (91.790) .....	40
Restraint and stowage of cargo (91.585).....	40
Restraint and stowage of carry-on baggage (91.590) .....	40
Restraint and stowage of certain aircraft equipment (91.595) .....	40
Carriage of cargo – general (91.600).....	41
Carriage of cargo – cargo compartments (91.605) .....	41
Carriage of cargo – unoccupied seats (91.610) .....	41
Carriage of cargo – loading instructions (91.615) .....	41
Unauthorised travel or placing cargo on aircraft (91.060) .....	41
Carriage of animals (91.620) .....	41
Possessing firearm on aircraft (91.160) .....	42
Discharging firearm on aircraft (91.165) .....	42

## **OPERATIONAL RULES**

**43**

<b>6. Classification of operation</b> .....	<b>44</b>
Aircraft to be flown under the VFR or IFR (91.270) .....	44
All flights – airspeed limits (91.090) .....	44
VFR flights – aircraft not to exceed certain speeds (91.283) .....	44
VFR flights – compliance with VMC criteria (91.280).....	44
VFR flights – flights in Class A airspace (91.285) .....	47

<b>7. Rules to prevent collision</b> .....	<b>48</b>
Basic rule (91.325).....	48
Right-of-way rules (91.330) .....	48
Additional right-of-way rules (91.335) .....	49
Right-of-way rules for take-off and landing (91.340) .....	50
Compliance with international regulations (91.345).....	50
Giving way to vessels (91.350).....	50
Giving way on water (91.355) .....	50
<b>8. Communication</b> .....	<b>51</b>
Use of radio – qualifications (91.625) (MOS 21.01).....	51
Use of radio – broadcasts and reports (91.630) (MOS 21.02) .....	51
Communication monitoring in controlled airspace (91.635) .....	54
Communicating at certified, military or designated non-controlled aerodromes (91.400).....	54
Air traffic services – prescribed requirements (91.255).....	55
Unauthorised entry into prohibited or restricted areas (91.260) .....	57
Air traffic control clearances and instructions (91.257).....	62
Use of radio outside controlled airspaces – listening watch of radio transmissions (91.640) .....	62
Standard visual signals (91.670) .....	63
Interception of aircraft (91.695) .....	70
Pilot in command to report hazards to air navigation (91.675).....	70
Pilot in command to report emergencies (91.680) .....	70
Pilot in command to report contraventions relating to emergencies (91.690) .....	70
Aviation distress signals (91.700) .....	70
<b>9. Fuel</b> .....	<b>71</b>
Fuel requirements (91.455) .....	71
Oil requirements (91.460).....	74
Contaminated, degraded or inappropriate fuels (91.465) .....	74
Fire hazards (91.470).....	75
Fuelling aircraft – firefighting equipment (91.475) .....	75
Fuelling aircraft – electrical bonding (91.480).....	75
Equipment or electronic devices operating near aircraft (91.485) .....	76
Fuelling turbine-engine aircraft – low-risk electronic devices (91.490).....	76
Only turbine-engine aircraft to be hot fuelled (91.495).....	76
Hot fuelling aircraft – general (91.500) .....	76
Hot fuelling aircraft – procedures (91.505) .....	77
Fuelling aircraft – persons on aircraft, boarding or disembarking (91.510) .....	77
Fuelling aircraft if fuel vapour detected (91.515).....	77

10. Pre-flight planning and preparation.....	78
Flight preparation requirements – weather assessment (91.230).....	78
Flight notifications (91.240).....	85
Matters to be checked before take-off (91.245) .....	87
11. Ground operations.....	89
Use of aerodromes (91.410) .....	89
Military aerodromes used by Australian and foreign aircraft (EX81/21).....	89
Parked aircraft not to create hazard (91.420) .....	89
Safety when aeroplane operating on ground (91.425) (MOS 18.01).....	89
Safety when rotorcraft operating on ground (91.430).....	90
Taxiing aircraft (91.415) .....	90
Taxiing or towing on movement area of aerodrome (91.365).....	90
12. Aircraft performance and weight and balance .....	90
Loading of aircraft (91.805).....	90
Take-off performance (91.795) .....	90
Landing performance (91.800) .....	92
13. IFR – Take-off and landing .....	94
Taking off and landing in low-visibility (91.315).....	94
IFR take-off and landing minima (91.307) .....	94
Approach ban for IFR flights (91.310) .....	98
14. Cruising levels and minimum heights.....	99
Specified VFR cruising levels (91.275).....	99
Specified IFR cruising levels (91.290).....	100
Minimum heights – VFR flights at night (91.277) (MOS 12.03).....	102
Minimum heights – IFR flights (91.305) .....	102
IFR flights at non-specified cruising levels – notifying air traffic services (91.295) .....	103
IFR flights at non-specified cruising levels – avoiding collisions with VFR aircraft (91.300).....	103
Minimum height rules – populous areas and public gatherings (91.265) (MOS 12.01) .....	103
Minimum height rules – other areas (91.267) (MOS 12.02).....	105
15. Navigation.....	106
VFR flights (91.273) .....	106
IFR flights (91.287) .....	106
RVSM airspace (91.655) .....	112
Performance-based navigation (91.660) (MOS 22.01) .....	112

<b>16. Non-controlled aerodromes</b> .....	<b>113</b>
Take-off or landing at non-controlled aerodromes – all aircraft (91.370).....	113
Meaning of in the vicinity of a non-controlled aerodrome (91.360).....	114
Operating on manoeuvring area, or in the vicinity, of a non-controlled aerodrome – general requirements (91.375).....	114
Operating on manoeuvring area, or in the vicinity, of a non-controlled aerodrome – landing and taking off into the wind (91.380).....	115
Operating on manoeuvring area, or in the vicinity, of non-controlled aerodrome – requirements that apply after joining the circuit pattern (91.385).....	115
Operating on manoeuvring area, or in the vicinity, of non-controlled aerodrome – requirements related to maintaining the same track after take-off (91.390) .....	115
Straight-in approaches at non-controlled aerodromes (91.395).....	116
Aircraft in aerodrome traffic at controlled aerodromes (91.405) .....	116
<b>17. Icing</b> .....	<b>117</b>
Flight in icing conditions – adherence of frost, ice or snow (91.705) .....	117
Flight in icing conditions – requirements for flight (91.710) .....	117
<b>18. Special flight operations</b> .....	<b>118</b>
Air displays in Australian territory (91.180).....	118
Conducting aerobatic manoeuvres (91.185).....	118
Dropping things from aircraft (91.190).....	118
Picking up or setting down people or things during flight (91.195) .....	118
Flying in formation (91.205) (MOS 6.01).....	119
Towing of things by aircraft (91.210) .....	119
Night vision imaging system (NVIS) flights (91.085) .....	119
<b>19. Aircraft equipment</b> .....	<b>120</b>
Requirements relating to equipment (91.810).....	120

## **ADMINISTRATIVE RULES**

**123**

<b>20. Special certificates and permits</b> .....	<b>124</b>
Approvals by authorised persons for Subpart 91.T (91.050).....	124
Aircraft with more than one certificate of airworthiness – application of Subpart 91.T (91.835).....	124
Restricted category aircraft – general operating requirements (91.840) .....	124
Restricted category aircraft – kinds of operations permitted (91.845).....	125
Provisionally certificated aircraft – operating requirements (91.850) .....	125
Provisionally certificated aircraft – kinds of operations permitted (91.855) .....	126
Provisionally certificated aircraft – operation for type certification or supplemental type certification (91.860) .....	126

Provisionally certificated aircraft – requirements for the carriage of people (91.865) .....	126
Provisionally certificated aircraft – additional requirements for operators (91.870) .....	126
Experimental aircraft – operating requirements (91.875) (CASA EX 81/21) .....	126
Experimental aircraft – kinds of operations permitted (91.880) .....	128
Experimental aircraft – maximum number of persons to be carried (91.885) .....	128
Primary category aircraft and intermediate category aircraft – operating requirements (91.890) .....	129
Light sport aircraft – operators (91.895) .....	129
Light sport aircraft – pilots (91.900) .....	130
Flights under special flight permits (91.905) .....	131
Special certificate of airworthiness – application (91.910) .....	131
Aircraft with special certificates of airworthiness – maintenance release (91.915) .....	131
Aircraft with special certificates of airworthiness – flight tests to be conducted in certain areas (91.920) .....	131
<b>21. Foreign aircraft .....</b>	<b>132</b>
Foreign-registered aircraft – Chicago Convention (91.965) .....	132
Foreign-registered aircraft – special flight authorisations (91.970) .....	132
Foreign-state aircraft – approval to fly in Australian territory (91.975) .....	132
Foreign-registered aircraft – major defect – CASA direction (91.980) .....	132
Foreign-registered aircraft – CASA to notify contracting state of direction (91.985) .....	133
Foreign-registered aircraft – CASA may revoke direction (91.990) .....	133
Foreign-registered aircraft – when direction or revocation takes effect (91.995) .....	133
ADS-B OUT equipment on certain foreign-registered aircraft in private operations .....	133
<b>22. Minimum equipment list (MEL) .....</b>	<b>134</b>
Definitions (91.925) .....	134
Requirements for minimum equipment list (91.930) .....	134
Approval of minimum equipment list (91.935) .....	137
Approval of variations (91.940) .....	137
Approval of extensions of rectification intervals (91.945) .....	137
Effect of approval (91.950) .....	138
CASA to be notified of extensions approved by a continuing airworthiness management organisation (91.955) .....	138
Operation of aircraft with multiple inoperative items not permitted in certain circumstances (91.960) .....	138

---

**APPENDICES**
**139**

Appendix A: MOS Chapter 26 – Equipment .....	140
Purpose (MOS 26.01).....	140
Approval of aircraft equipment (MOS 26.02).....	140
Visibility and accessibility of pilot-operated equipment (MOS 26.03) .....	140
Serviceability of equipment (MOS 26.04) .....	141
Aeroplane – VFR flight by day (MOS 26.06).....	141
Aeroplane – VFR flight by night (MOS 26.07).....	142
Aeroplane – IFR flight (MOS 26.08).....	143
Rotorcraft – VFR flight by day (MOS 26.10) .....	144
Rotorcraft – VFR flight by night (MOS 26.11).....	145
Rotorcraft – IFR flight (MOS 26.12).....	146
Application – VFR flight requirements do not apply to certain light sport aircraft (MOS 26.13).....	147
Application – VFR and IFR flight requirements do not apply to certain experimental aeroplanes (MOS 26.14) .....	147
Application – VFR and IFR flight requirements do not apply to certain experimental rotorcraft (MOS 26.15).....	148
Application – VFR and IFR flight requirements do not apply to certain registered aircraft (MOS 26.16).....	148
Electronic flight information systems (MOS 26.17).....	148
Radiocommunication systems (MOS 26.18).....	148
When aircraft may begin a flight with inoperative radio communications (MOS 26.19) .....	148
Equipment to measure and record cosmic radiation (MOS 26.20).....	149
Cockpit and cabin lighting requirement (MOS 26.21) .....	149
Anti-collision lights (MOS 26.22) .....	149
Landing lights (MOS 26.23) .....	150
Navigation lights (MOS 26.24) .....	150
Altitude alerting system and assigned altitude indicator – IFR flights (MOS 26.25).....	150
Aircraft flown with inoperative altitude alerting equipment – IFR flights (MOS 26.26).....	150
Aeroplane airborne collision avoidance system – ACAS II (MOS 26.27) .....	150
ACAS II requirements for use (MOS 26.28).....	150
Flight with inoperative ACAS (MOS 26.29).....	150
Flight recorders – definition (MOS 26.30).....	150
Aeroplane flight data recorder (MOS 26.31).....	150
Aeroplane cockpit voice recorder (MOS 26.32) .....	151



---

Rotorcraft flight data recorder (MOS 26.33).....	151
Rotorcraft cockpit voice recorder (MOS 26.34).....	151
Combination recorders – for aeroplane or rotorcraft (MOS 26.35) .....	151
FDR, CVR and combination recorder technical requirements (MOS 26.36).....	151
Use of FDR, CVR and combination recorders (MOS 26.37) .....	152
Flight with inoperative FDR, CVR or combination flight recording equipment (MOS 26.38).....	152
Data link recorder (MOS 26.39) .....	152
Flight crew intercommunications system – VFR flights (MOS 26.40).....	152
Flight crew intercommunications system – IFR flights (MOS 26.41) .....	153
Public address system (MOS 26.42) .....	153
Supplemental oxygen (MOS 26.43).....	153
Oxygen masks usage requirement – pressurised aircraft above FL250 (MOS 26.44).....	153
Protective breathing equipment – flight crew members (MOS 26.45).....	154
Portable protective breathing equipment (MOS 26.46) .....	154
First aid oxygen equipment – pressurised aircraft (MOS 26.47) .....	154
Carriage of emergency locator transmitter (ELT) (MOS 26.48).....	155
Single-engine aircraft over water.....	155
ELT – basic technical requirements (MOS 26.49).....	155
Automatic ELT (MOS 26.50) .....	156
Survival ELT (MOS 26.51) .....	156
Aircraft flown with inoperative ELT (MOS 26.52) .....	156
Hand-held fire extinguishers – aeroplanes (MOS 26.53).....	156
Hand-held fire extinguishers – rotorcraft (MOS 26.54).....	157
Sea anchors etc and sound signals – seaplanes and amphibians and certain rotorcraft (MOS 26.55).....	157
Life jackets – carriage requirements (MOS 26.56) .....	157
Stowage of life jackets (MOS 26.57).....	158
Wearing life jackets – aircraft generally (MOS 26.58).....	158
Wearing life jackets – rotorcraft – special provision (MOS 26.59) .....	158
Life rafts – carriage requirements (MOS 26.60).....	158
Stowage of life rafts (MOS 26.61) .....	159
Overwater survival equipment (MOS 26.62).....	159
Remote area – definitions (MOS 26.63) .....	159
Remote area survival equipment (MOS 26.64) .....	159
Meaning of remote area (MOS 26.65).....	159

Surveillance equipment exceptions to (E)TSO or NAA requirements (MOS 26.66) .....	160
Surveillance equipment – definitions (MOS 26.67) .....	161
Required surveillance equipment(MOS 26.68) .....	163
Carriage of transponders and surveillance equipment (MOS 26.68).....	164
Requirements for other surveillance equipment for VFR aircraft (MOS 26.68A) .....	165
Operation of surveillance equipment – general requirements (MOS 26.69).....	166
Mode S transponders, ADS-B-OUT and electronic conspicuity equipment – specific requirements (MOS 26.70) .....	166
Alternate GNSS position source for ADS-B OUT – requirements (MOS 26.71) .....	167
Alternate ADS-B OUT equipment configuration – requirements (MOS 26.72).....	168
Approved Mode S transponder with Class B TABS position source device equipment configuration – requirements (MOS 26.72A) .....	168
Approved integrated traffic awareness beacon system (TABS) device – requirements (MOS 26.72B).....	168
Approved electronic conspicuity (EC) device – requirements (MOS 26.72C) .....	168
Aircraft flown with inoperative surveillance equipment (MOS 26.73) .....	169
Equipment for NVIS flights (MOS 26.74).....	169
Application (MOS 26.74A).....	169
Definitions (MOS 26.75) .....	170
Aircraft general and lighting standards for NVIS flights (MOS 26.76).....	170
Performance and other specifications for NVG image intensifier tubes (MOS 26.77).....	170
Performance and other specifications for NVG image intensifier tubes (MOS 26.77).....	172
Maintenance of the NVIS and its components (MOS 26.78) .....	173
Minimum aircraft equipment for NVIS flight (MOS 26.79).....	174
<b>Appendix B: Night Vision Imaging Systems flights.....</b>	<b>175</b>
VMC minima for NVIS operations (MOS table 2.07 (3A) and (3B)) .....	175
CASR 91.085 MOS NVIS requirements.....	176
Definitions (MOS 3.02).....	177
General requirements for NVIS flights (MOS 3.03) .....	179
HLS-NVIS standard (MOS 3.04).....	179
HLS-NVIS basic (MOS 3.05) .....	179
No formation flights for NVIS flight (MOS 3.06).....	179
Alternate lighting requirements (MOS 3.07).....	179
Aircraft lighting (MOS 3.08) .....	180
Minimum height under the NVFR or the IFR for NVIS operations (MOS 3.09).....	180
Weather requirements – cloud (MOS 3.10).....	181

---

Appendix C: Air displays, practice flights for air displays and aerobatic activities in the vicinity of non-controlled aerodromes - exemptions and directions .....	182
Air displays in Australian territory – exemption (EX81/21 (20)).....	182
Practice flights for air displays in Australian territory – exemption (EX81/21 (20A)).....	184
Aerobatic activities in the vicinity of a non-controlled aerodrome – exemptions and directions (EX81/21 (20B)).....	187
Appendix D: Observers who may be on certain flight tests and proficiency check flights (EX81/21 Part 4) .....	192
Applicability and background .....	192
Definitions .....	192
Exemptions (EX81/21 (28-34)).....	193
Conditions (EX81/21 (35)) .....	193
Further conditions (EX81/21 (36)).....	194
Appendix E: Abbreviations and acronyms.....	195
Appendix F: Definitions .....	198
Appendix G: Regulations - page references .....	223
Index.....	231