



## **Mapping of Civil Aviation Orders to CASR Parts 91, 119 and 133—Australian air transport operations—rotorcraft**

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**For Flight Operations Regulations commencing on 02 December 2021**

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This document contains guidance material intended to assist CASA officers, delegates and the aviation industry in understanding the operation of the aviation legislation. However, you should not rely on this document as a legal reference. Refer to the civil aviation legislation including the *Civil Aviation Act 1988* (Cth), its related regulations and any other legislative instruments—to ascertain the requirements of, and the obligations imposed by or under, the law.

## Glossary

### Acronyms and abbreviations

Acronym / abbreviation	Description
AIP	Aeronautical Information Publication
AMC/GM	Acceptable Means of Compliance and Guidance Material
AOC	Air Operator's Certificate
CAO	Civil Aviation Order
CAR	<i>Civil Aviation Regulations 1988</i>
CASA	Civil Aviation Safety Authority
CASR	<i>Civil Aviation Safety Regulations 1998</i>
ELT	emergency locator transmitter
HTAWS	helicopter terrain awareness and warning system
ICAO	International Civil Aviation Organization
IFR	instrument flight rules
MOS	Manual of Standards
MTOW	maximum take-off weight
VFR	visual flight rules

### References

Regulations are available on the Federal Register of Legislation website

<https://www.legislation.gov.au/>

Document	Title
Civil Aviation Regulations	<i>Civil Aviation Regulations 1988</i>
Civil Aviation Safety Regulations	<i>Civil Aviation Safety Regulations 1998</i>
Part 91 of CASR	General operating and flight rules
Part 119 of CASR	Australian air transport operators—certification and management
Part 133 of CASR	Australian air transport operations—rotorcraft
Part 91 AMC/GM	Part 91—General operating and flight rules Acceptable means of compliance and guidance material
Part 119 AMC/GM	Part 119—Australian air transport operators—certification and management
Part 133 AMC/GM	Part 133—Australian air transport operations—rotorcraft Acceptable means of compliance and guidance material

## **Revision History**

Amendments/revisions of this Handbook are recorded below in order of the most recent first.

<b>Version No.</b>	<b>Date</b>	<b>Parts/Sections</b>	<b>Details</b>
1.0	April 2021	All	First issue

## Introduction

This document has been developed to assist pilots and operators transition to the new flight operations regulations that commence on 2 December 2021. It provides a guide to where provisions of the Civil Aviation Orders (CAOs), as they would relate to Part 133 air transport operations, have been incorporated into Parts 91, 119 and 133 of the *Civil Aviation Safety Regulations 1998* (CASR).

Part 133 of CASR applies to operators and pilots conducting Australian air transport operations in rotorcraft.

Part 119 of CASR prescribes the rules for operator certification and management.

This document lists regulations from Parts 91, 119 and 133 of CASR against CAO subsections, together with the location of requirements (if any) in the Manuals of Standards for Parts 91 and 133. If a similar provision is not contained in the CASR Parts, this is indicated by a '—'.

The comments provide a brief outline of some key differences between the existing and the new regulations, as well as other explanatory material and related provisions. Refer to the regulations and associated MOS sections for full requirements.

A number of the new regulations do not include the prescriptive requirements of the CAOs and are outcome-based, allowing the operator to develop their own procedures for compliance, which must be included in their exposition.

This document does not contain every regulation that applies to an air transport operation and should be read in conjunction with the relevant CASR Parts. Guidance material is provided in AMC/GM documents and advisory circulars, available on the CASA website.

The Civil Aviation Orders, the new CASR Parts and Manuals of Standards are available via the CASA website and on the Federal Register of Legislation website as follows:

- [Civil Aviation Orders](#)
- [Part 91 of CASR](#) and the [Part 91 Manual of Standards](#)
- [Part 119 of CASR](#)
- [Part 133 of CASR](#) and the [Part 133 Manual of Standards](#).

The AMC/GM documents for Parts [91](#), [119](#) and [133](#) are available on the CASA website.

Definitions are provided in the CASR Dictionary, the applicable CASR Part or its MOS, as necessary. Refer to the CASA Flight operations regulations - consolidated dictionary, available on the [CASA website](#).



## Mapping of Civil Aviation Orders to CASR Parts 91, 119 and 133—Australian air transport operations—rotorcraft

Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR	Part 133 MOS	Part 91 of CASR	Part 91 MOS	Comments
<b>20.2 Air service operations — safety precautions before flight</b>						
20.2.2	Removal of locking and safety devices	—			91.245 Matters to be checked before take-off	Chapter 10 (10.02)  <b>Other provisions</b> 91.215 Authority and responsibilities of the pilot in command 91.095 Compliance with flight manual etc. 133.030 Compliance with flight manual
20.2.3	Security of doors and hatches	—				
20.2.4	Precautions before solo flight in aircraft fitted with dual controls	—				
20.2.5	Fuel system inspection	—			91.465 Contaminated, degraded or inappropriate fuels	
20.2.6	Fuel quantity measurement	133.180	Fuel procedures		—	These provisions apply regardless of the MTOW of the rotorcraft.
		133.190	Fuel requirements	Chapter 6 (6.05)		
		119.205	Content of exposition			
<b>20.3 Air service operations — Marshalling and parking of aircraft</b>						
20.3.1	Application	—			—	
20.3.2	Responsibility for marshalling and parking aircraft	—			91.670 Standard visual signals	Regulation 91.670 of CASR prescribes that a person who displays a signal to an aircraft (other than a glider) for the purposes of marshalling the aircraft must use a standard visual signal.  <b>Other provisions</b> 133.175 Procedures for safety at aerodromes
20.3.3	Parking areas	—			—	Refer to Part 139 of CASR—Aerodromes for the requirements relating to designated parking areas on aerodromes.  Regulation 91.420 Parked aircraft not to create a hazard (a new provision prescribing that an aircraft must not be parked in a place where it is a hazard to the movement of other aircraft).
20.3.4	Standard hand signals	—			91.670 Standard visual signals	<i>Standard visual signal</i> is defined in the CASR Dictionary. Details of marshalling signals are shown in Appendix 1 of the Part 91 AMC/GM.
Appendix 1	Standard hand signals to be used by ground personnel marshalling aircraft	—			—	<b>Other provisions</b> Part 91 MOS Division 2.3 Definition of <i>standard visual signal</i> .



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR	Part 133 MOS	Part 91 of CASR	Part 91 MOS	Comments	
<b>20.4 Provision and use of oxygen and protective breathing equipment</b>							
20.4.1	Application	—			—		
20.4.2	Interpretation	—			—		
20.4.3	Equipment standards	Subpart 133.K	Equipment	Chapter 11 Division 9 (11.40)	—	Refer to CAO 108.26 for equipment standards.	
20.4.4	Duties of crew members in relation to oxygen and protective breathing equipment	133.240	Safety briefings, instructions and demonstrations	Chapter 7 (7.02(9))	91.245	Matters to be checked before take-off	<b>Other provisions</b> 133.235 Safety briefing cards Part 133 MOS Chapter 7 (7.01(2)(a))
20.4.5	Information to be included in operations manual and flight manual	119.205	Content of exposition		—		Paragraph 119.205(1)(h) of CASR requires an exposition to include details about how the operator safely conducts and manages their operations in compliance with the civil aviation legislation.
20.4.6	Supplemental oxygen requirements for unpressurised aircraft	Subpart 133.K	Equipment	Chapter 11 Division 9 (11.35)	—		The Part 133 MOS prescribes modified supplemental oxygen supply requirements.
20.4.7	Supplemental oxygen requirements for pressurised aircraft engaged in flights not above FL250	Subpart 133.K	Equipment	Chapter 11 Division 9 (11.34, 11.37)	—		
20.4.8	Supplemental oxygen requirements for pressurised aircraft engaged in flights above FL250	Subpart 133.K	Equipment	Chapter 11 Division 9 (11.34, 11.36, 11.37)	—		
20.4.9	First aid oxygen	Subpart 133.K	Equipment	Chapter 11 Division 9 (11.40)	—		
20.4.10	Protective breathing equipment	Subpart 133.K	Equipment	Chapter 11 Division 9 (11.38, 11.39)	—		The Part 133 MOS prescribes new requirements for the carriage of first aid oxygen, with a minimum of 2 units required. Until immediately before 2 December 2023, a relevant rotorcraft can either comply with requirements in CAOs 20.4 and 108.26, or carry first aid oxygen in accordance with the Part 91 MOS.
<b>20.6 Continuation of flight with 1 or more engines inoperative</b>							
20.6.2	Application	—			—		
20.6.3	Requirements	—			91.680	Pilot in command to report emergencies	



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
					91.685	Multi-engine aircraft—pilot in command to land at nearest suitable aerodrome if emergency occurs		
<b>20.9 Air service operations - precautions in refuelling, engine and ground radar operations</b>								
20.9.2	Application	—			—			
20.9.3	Fuel and oils	—			91.465	Contaminated, degraded or inappropriate fuels		The responsibility for ensuring an aircraft is not fuelled with contaminated, degraded or inappropriate fuel has been extended to the fuel supplier and refueller.  <b>Other provisions</b> 91.095 Compliance with flight manual etc. 133.030 Compliance with flight manual
20.9.4	Fuelling of aircraft	133.195	Fuelling safety procedures		91.470	Fire hazards		
					91.480	Fuelling aircraft—electrical bonding		
					91.485	Equipment or electronic devices operating near aircraft		
					91.490	Fuelling turbine-engine aircraft—low-risk electronic devices		
					91.515	Fuelling aircraft if fuel vapour detected		
					91.475	Fuelling aircraft—fire fighting equipment		
20.9.5	Starting and ground operations	133.175	Procedures for safety at		91.470	Fire hazards		



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
	of engines		aerodromes					
20.9.6	Ground operation of aircraft radar equipment	—			—			<p>These provisions have not been included in Part 133 or 91 of CASR. Refer to the following regulations for requirements relating to fire hazards and the operation of equipment during refuelling:</p> <ul style="list-style-type: none"> <li>91.470 Fire hazards</li> <li>91.485 Equipment or electronic devices operating near aircraft.</li> </ul> <p>Refer to AC 91-25 - Fuel and oil safety<sup>1</sup> for guidance.</p> <p><b>Other provisions</b> 91.055 Aircraft not to be operated in a manner that creates a hazard</p>
Appendix 1	Fire safety requirements to be met by mechanical and electrical equipment within 15 metres etc	—			—			
<b>20.11 Emergency and life saving equipment and passenger control in emergencies</b>								
								<p>The Part 133 MOS prescribes the carriage of following portable emergency equipment:</p> <ul style="list-style-type: none"> <li>first-aid kits (11.47) (a new requirement (on and after 2 December 2023)), and</li> <li>hand-held fire extinguishers (11.46).</li> </ul>
20.11.1	Application	—			—			
20.11.2	Definitions	—			—			
20.11.3	Maintenance of emergency and lifesaving equipment	Subpart 133.K	Equipment	Chapter 11 Division 2 (11.01, 11.03)	—			<p><b>Other provisions</b> 91.245 Matters to be checked before take-off Part 91 MOS Chapter 10 (10.02(d))  Part 133 MOS Chapter 11 (11.04)</p>
20.11.5	Flotation equipment for overwater flights	Subpart 133.K	Equipment	Chapter 11 Division 12 (11.49, 11.50, 11.51)	—			<p>Part 133 MOS prescribes new requirements for the wearing of life jackets.</p> <p><b>Other provisions</b> 133.010 Definition of <i>suitable forced landing area</i> for rotorcraft flights</p>
20.11.6	Emergency signalling equipment	Subpart 133.K	Equipment	Chapter 11 Division 10 (11.41, 11.42, 11.43, 11.44, 11.45)	—			<p>'Automatic ELT' and 'survival ELT' replace the terms 'approved ELT' and 'approved portable ELT', respectively. Apart from a minor technical amendment included in the requirements for an automatic ELT, details are unchanged.</p> <p>The Part 133 MOS prescribes new requirements for the carriage of ELTs. Until immediately before 2 December 2023, a rotorcraft must either be fitted with or carry ELTs in accordance with regulation 252A of CAR and subsection 6 of CAO 20.11 (as it applies to ELTs), or Division 10 of the Part 133 MOS. From 2 December 2023, the requirements in the Part 133 MOS</p>

<sup>1</sup> At the time of publication of this document, this AC is under development. Once published, it will be available from the CASA website.



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
								must be complied with.
20.11.6A	Portable megaphones	—			—			
20.11.7	Survival equipment	Subpart 133.K	Equipment	Chapter 11 Division 4 (11.11)	—			<b>Other provisions</b> 133.100 Information about search and rescue services 133.105 Information about emergency and survival equipment 133.260 Survival equipment procedures
20.11.8	Accessories for water operations	Subpart 133.K	Equipment	Chapter 11 Division 12 (11.48)	—			
20.11.9	Illumination of emergency exits	—			—			The Part 133 MOS prescribes that cabin lighting must be sufficient to enable each occupant of the rotorcraft to see and use the normal and emergency exits. Refer to section 11.12 of Chapter 11.
20.11.10	Emergency procedures	119.205	Content of exposition		—			
20.11.11	Assignment of emergency duties	—			—			<b>Other provisions</b> 133.375 Competence 133.430 Competence 133.460 Competence 133.475 Competence 119.205 Content of exposition
20.11.12	Crew member proficiency in the execution of emergency procedures	133.370	Composition, number, qualifications and training	Chapter 12 Division 2 (12.03, 12.04, 12.08)	—			Part 133 of CASR prescribes revised requirements for emergency and safety equipment training and checking, including a 3-yearly check and underwater escape training.  <b>Other provisions</b> 119.225 Personnel training and checking records—making records 119.240 Retention periods for personnel records 133.375 Competence 133.430 Competence 133.460 Competence 133.475 Competence
		133.425	Number, qualifications, experience and training	Chapter 13 (13.02)				
		133.455	Training and checking	Chapter 14 Division 2 (14.03, 14.04, 14.08)				
		133.470	Training and checking	Chapter 15 Division 2 (15.03, 15.04, 15.08)				
20.11.13	Cabin attendants	133.425	Number, qualifications, experience and training	Chapter 13 (13.01, 13.02)	—			<b>Other provisions</b> 133.435 Minimum age 133.440 English proficiency 133.445 Assignment to duty as senior cabin crew member
20.11.14	Briefing of passengers	133.235	Safety briefing cards	Chapter 7	91.540	Means of		



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
		133.240	Safety briefings, instructions and demonstrations	Chapter 7		passenger communication		<b>Other provisions</b> 91.570 Passengers—safety directions by pilot in command 91.575 Passengers—compliance with safety directions 91.580 Passengers—compliance with safety instructions by cabin crew
		133.245	Safety briefing in the event of an emergency					
20.11.15	Demonstration of emergency evacuation procedures	—			—			
Appendix II	Criteria for ditching demonstration							
Appendix III	Designated remote areas	—			—			<i>remote area</i> has the meaning given in Division 26.15 of the Part 91 MOS.
Appendix IV	Crew member emergency procedures proficiency test	—			—			Refer to the entries for subsection 12.
<b>20.13 Air service operations - cockpit check systems</b>								
		—			—			CASA approval of cockpit check systems is not required under the CASR.  The following provisions relate to the compliance with flight manual instructions about the operation of a rotorcraft, and the availability and carriage of checklists: <ul style="list-style-type: none"> <li>• 91.095 Compliance with flight manual etc.</li> <li>• 133.030 Compliance with flight manual</li> <li>• 133.040 Availability of checklists</li> <li>• 133.055 Carriage of documents Part 133 MOS Chapter 3 (3.01(3)).</li> </ul> Refer to the Part 133 AMC/GM document for guidance on regulation 133.040 and establishing, using and maintaining checklists.
<b>20.16.1 Air service operations - loading - general</b>								
20.16.1.1	Application	—			—			
20.16.1.2	Definitions	—			—			
20.16.1.3	Loading system	133.345	Loading of rotorcraft		—			Refer to multi-part AC 133-04 – Passenger, crew and baggage weights <sup>2</sup> for guidance.
		133.350	Procedures for loading rotorcraft etc.					
20.16.1.5	Load sheets	133.355	Weight and balance documents		—			Subregulation 133.355 (2) prescribes the content of the weight and balance documents, including the name of the person who prepared the documents.
		133.055	Carriage of documents	Chapter 3				

<sup>2</sup> At the time of publication of this document, this AC is under development. Once published, it will be available from the CASA website.



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
				Division 1				<b>Other provisions</b> 119.245 Retention periods for flight-related documents 133.060 Availability or carriage of documents for certain flights
20.16.1.7	Passenger lists	133.080	Passenger lists		—			Subregulation 133.080 (2) prescribes a new requirement for the number of infants carried to be included in the passenger list.  <b>Other provisions</b> 133.065 Carriage of documents—flights that begin or end outside Australian territory. 133.070 Keeping and updating documents etc. (a new requirement for procedures to be in the exposition). Part 133 MOS Chapter 3 (3.03) 119.245 Retention periods for flight-related documents
<b>20.16.2 Air service operations - loading - general</b>								
20.16.2.1	Application	—			—			
20.16.2.2	Definitions	—			—			
20.16.2.3	Restraint	133.270	Securing movable equipment		91.585	Restraint and stowage of cargo		Regulation 133.270 of CASR prescribes the requirement for the operator to have procedures in their exposition for identifying and stowing moveable equipment.
					91.590	Restraint and stowage of carry-on baggage		
20.16.2.4	Stowage	133.220	Obstruction of emergency exits		91.595	Restraint and stowage of certain aircraft equipment		<b>Other provisions</b> 133.215 Carry-on baggage
					91.600	Carriage of cargo—general		
					91.605	Carriage of cargo—cargo compartments		Regulation 91.605 of CASR prescribes a new requirement to ensure fire fighting access to cargo compartments.
20.16.2.5	Cargo on a passenger seat	—			91.585	Restraint and stowage of cargo		Cargo carried on an unoccupied seat may exceed 77 kg if the seat manufacturer permits it. CASA approval of a seat loading scheme is not required.
					91.610	Carriage of cargo—unoccupied seats		<b>Other provisions</b> 91.095 Compliance with flight manual etc. 133.030 Compliance with flight manual



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
20.16.2.6	Cargo in a pilot compartment	—			91.600	Carriage of cargo—general		
		—			91.610	Carriage of cargo—unoccupied seats		
20.16.2.7	Placarding	—			91.615	Carriage of cargo—loading instructions		<b>Other provisions</b> 91.060 Unauthorised travel or placing of cargo on aircraft
<b>20.16.3 Air service operations—carriage of persons</b>								
20.16.3.1	Application	—			—			
20.16.3.2	Definitions	—			—			
20.16.3.3	Seats	133.225	Passengers in seats adjacent to emergency exits		91.550	Seating for flight crew members		<p>* Section 9.01 of the Part 133 MOS contains an exemption from compliance with subregulation 91.555 (1) of CASR - seating for crew members other than flight crew members.</p> <p>Directions for the wearing of a seatbelt, and the wearing of a safety harness or restraint strap instead of a seatbelt, are contained in Chapter 9 of the Part 133 MOS, as follows:</p> <ul style="list-style-type: none"> <li>wearing of seatbelt (9.02)</li> <li>wearing of safety harness or restraint strap — medical transport operation (9.03)</li> <li>wearing of safety harness and restrain strap — crew member (9.04).</li> </ul> <p><b>Other provisions</b></p> <p>133.230 Carriage of passengers with reduced mobility 133.240 Safety briefings, instructions and demonstrations Part 133 MOS Chapter 7 (7.02 (6)) 91.535 Crew safety during turbulence 91.545 Seating for persons on aircraft Part 91 MOS Chapter 20 (20.01) 91.575 Passengers—compliance with safety directions 91.060 Unauthorised travel or placing of cargo on aircraft</p>
					91.555 *	Seating for crew members other than flight crew members		
					91.560	Restraint of infants and children	Chapter 20 Division 20.2	
					91.570	Passengers—safety directions by pilot in command		
20.16.3.4	Seat belts and safety harnesses	Subpart 133.K	Equipment	Chapter 11 Division 8 (11.32)	91.550	Seating for flight crew members		
					91.555 *	Seating for crew members other than flight crew members		
					91.540	Means of passenger communication		
					91.560	Restraint of infants and children	Chapter 20 Division 20.2	



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
					91.570	Passengers— safety directions by pilot in command		
20.16.3.5	Adjustment of seats	133.240	Safety briefings, instructions and demonstrations	Chapter 7	91.570	Passengers— safety directions by pilot in command		<b>Other provisions</b> 91.575 Passengers—compliance with safety directions
20.16.3.6	Cabin attendants	—			—			
20.16.3.6A	Manned balloons and hot air airships	—			—			
20.16.3.7	Aisles	—			—			<b>Other provisions</b> 91.600 Carriage of cargo—general (paragraph (2)(c))
20.16.3.8	Smoking	133.240	Safety briefings, instructions and demonstrations	Chapter 7 (7.02(9)(k))	91.530	When smoking not permitted		Smoking is now taken to include electronic cigarettes.  <b>Other provisions</b> 133.235 Safety briefing cards
20.16.3.9	Stowage of loose articles	133.220	Obstruction of emergency exits		91.590	Restraint and stowage of carry-on baggage		<b>Other provisions</b> 91.170 Operation of portable electronic devices (prescribes that the pilot in command may permit the use of portable electronic devices during flight (rather than requiring them to be stowed at prescribed times) if the use will not affect the safety of the aircraft).  133.280 Procedures relating to portable electronic devices 133.215 Carry-on baggage
					91.595	Restraint and stowage of certain aircraft equipment		
					91.600	Carriage of cargo—general		
20.16.3.10	Passenger service	—			91.595	Restraint and stowage of certain aircraft equipment		
20.16.3.11	Carriage of passengers in seats at which dual controls are fitted	133.120	Crew station authorisation and briefing		91.155	Manipulating flight controls		
20.16.3.12	Passenger capacity	—			—			The provisions in CAO 20.16.3 subsection 12 for the carriage of excess passengers have not been included in CASR.  <b>Other provisions</b> 91.095 Compliance with flight manual etc. 133.030 Compliance with flight manual



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
								133.345 Loading of rotorcraft 133.350 Procedures for loading rotorcraft etc.
20.16.3.13	Carriage of infants and children	—			91.560	Restraint of infants and children	Chapter 20 Division 20.2	<b>Other provisions</b> 91.570 Passengers—safety directions by pilot in command 133.240 Safety briefings, instructions and demonstrations Part 133 MOS Chapter 7
20.16.3.14	Persons or passengers who require assistance due to sickness, injury or disability	133.230	Carriage of passengers with reduced mobility		91.545	Seating for persons on aircraft	Chapter 20 Division 20.1	
		133.240	Safety briefings, instructions and demonstrations	Chapter 7				
20.16.3.15	Carriage of parachutists	—			—			
<b>20.17 Air service operations - use of military aerodromes by civil aircraft</b>								
		—			—			Regulation 91.410 of CASR authorises the use of certain places as aerodromes. An aerodrome for which an arrangement under section 20 of the Act is in force (subparagraph 91.410(2)(a)(iii)) means a Defence aerodrome that is available for civilian use.  Prior permission must be obtained from the appropriate military authority before landing at any military aerodrome (except joint-user aerodromes). Refer to AIP Australia.
<b>20.18 Aircraft equipment - basic operational requirements</b>								
20.18.2	Definitions	—			—			
20.18.3	Instrumentation for flight under the Visual Flight Rules (the V.F.R.)	133.030	Compliance with flight manual		91.095	Compliance with flight manual etc.		
20.18.3A	Operations to which flight and navigation equipment requirements do not apply	—			—			
20.18.4	Equipment for flight under the Instrument Flight Rules (the I.F.R.)	Subpart 133.K	Equipment	Chapter 11 Divisions 4 (11.10) and 8 (11.30)	91.095	Compliance with flight manual etc.		Section 11.30 of the Part 133 MOS - flight crew intercommunication system, prescribes new requirements.
		133.030	Compliance with flight manual					
20.18.5	Windshield clear vision equipment	—			—			
20.18.6	Recording equipment	Subpart 133.K	Equipment	Chapter 11 Division 7	91.650	Flight recorders—		Regulation 91.650 prescribes that aircraft fitted with an operative flight data recorder, operative cockpit voice recorder or operative combination recorder



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
						preserving recordings of immediately reportable matters		are required to preserve recordings of immediately reportable matters. The recorder must also be preserved. The retention time has been reduced.  <b>Other provisions</b> 91.645 Availability of instructions for flight data and combination recorders
20.18.7	Assigned altitude indicator and altitude alerting system	Subpart 133.K	Equipment	Chapter 11 Divisions 6 (11.16 and 11.17) and 2 (11.03)	—			The Part 133 MOS sets out the circumstances in which flight with inoperative altitude alerting equipment or an inoperative assigned altitude indicator is permitted.
20.18.8	Radiation indicator	—			—			
20.18.9	Ground proximity warning system	Subpart 133.K	Equipment	Chapter 11 Division 6 (11.18 and 11.19)	—			Part 133 of CASR prescribes the requirement for certain rotorcraft to be fitted with a helicopter terrain awareness and warning system (HTAWS).  Some provisions in the flight operations CASR Parts will be deferred. For deferral requirements regarding the fitment of an approved HTAWS, refer to the Part 133 MOS 11.18.  For further information about deferred provisions, refer to AC 1-03 – Transitioning to the new flight operations regulations, available on the CASA website.
20.18.9B	Directions relating to carriage and use of automatic dependent surveillance - broadcast equipment	Subpart 133.K	Equipment	Chapter 11 Division 13	—			
20.18.9BA	Instructions—SSR transponder equipment	Subpart 133.K	Equipment	Chapter 11 Division 13 (11.53)				
20.18.9C	Standards for Mode S transponder equipment	Subpart 133.K	Equipment	Chapter 11 Division 13 (11.52 and 11.62)	—			
20.18.9D	Directions for mandatory GNSS equipment for I.F.R. flight	Subpart 133.K	Equipment	Chapter 11 Division 4 (11.09)	—			
20.18.9E	Carriage of Mode S transponder equipment	Subpart 133.K	Equipment	Chapter 11 Division 13 (11.53, 11.54)	—			



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
20.18.10	Serviceability	133.035	Operator to have minimum equipment list for certain flights		91.150	Operating aircraft with inoperative equipment—placarding		Regulation 133.035 prescribes the requirement to have a minimum equipment list for certain flights.  Requirements for the content, approval and variation of minimum equipment lists are prescribed by Part 91 of CASR.  <b>Other provisions</b> 133.055 Carriage of documents Subpart 91.Y—Minimum equipment lists
		Subpart 133.K	Equipment	Chapter 11 Division 2 (11.04)				
Appendix I	Instruments required for flight under the V.F.R.	—			—			
Appendix II	Instruments required for aeroplanes engaged in RPT operations, and aeroplanes engaged in charter operations which have a maximum take-off weight greater than 5 700 kg	—			—			
Appendix III	Instruments required for aeroplanes with a maximum take-off weight not greater than 5 700 kg engaged in charter operations under the I.F.R. (except night V.M.C.) excluding freight only charter operations	—			—			
Appendix IV	Instruments required for aeroplanes engaged in aerial work and private operations under the I.F.R. (including night V.M.C.), charter operations under night V.M.C., I.F.R. freight only charter operations in aeroplanes with a maximum take-off weight not greater than 5 700 kg	—			—			
Appendix V	Electric lighting equipment flight under the I.F.R. at night (including night V.M.C.)	Subpart 133.K	Equipment	Chapter 11 Division 5	—			The Part 133 MOS prescribes that anti-collision lights must be fitted for flights operating by day or by night.  Cabin lighting must enable each occupant to see and use their seatbelt and oxygen facilities (if any).
Appendix VI	Instruments required for V.F.R. operations —helicopters	Subpart 133.K	Equipment	Chapter 11 Division 3 (11.05)	—			



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
Appendix VII	Instruments required for I.F.R. operations in helicopters (except night V.M.C.)	Subpart 133.K	Equipment	Chapter 11 Division 3 (11.07)	—			The Part 133 MOS prescribes the requirement for certain pressurised rotorcraft to be fitted with airborne weather radar equipment. Refer to Division 6 of Chapter 11 (11.20 and 11.21).  <b>Other provisions</b> 133.250 Airborne weather radar equipment
Appendix VIII	Instruments required for night V.M.C. flight in helicopters except while engaged in agricultural operations	Subpart 133.K	Equipment	Chapter 11 Division 3 (11.06)	—			
Appendix IX	Instruments required for helicopters engaged in night V.M.C. agricultural operations	—			—			
Appendix X	Instruments required for manned free balloons and hot air airships for flight by day under the V.F.R.	—			—			
Appendix XI	Approved equipment configuration — ADS-B transmitting equipment — IFR and VFR flight	Subpart 133.K	Equipment	Chapter 11 Division 13	—			
Appendices XII -XIV	Approved equipment configuration — Mode S transponder with Class B TABS position source device, Integrated TABS device, EC device — VFR flight below FL290 only	—			—			
<b>20.22 Taxiing of aircraft by persons other than licensed pilots</b>								
		—			—			Refer to Part 64 of CASR—Authorisations for non-licensed personnel.
<b>20.91 (Instructions and directions for performance-based navigation) Instrument 2014</b>								
		—			91.287	IFR flights	Chapter 14	
					91.660	Performance-based navigation	Chapter 22	
<b>29.11 Air service operations — helicopter winching and rappelling operations</b>								
		133.295	External load operations involving winching a person	Chapter 5 Division 1	—			An external load operation involving winching a person may be conducted during a medical transport operation.



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
		133.167	Minimum heights for medical transport operations	Chapter 5 Division 2				The Part 133 MOS prescribes the requirements to be met during the operation and the procedures and processes that must be included in the operator's exposition.  <b>Other provisions</b> 91.095 Compliance with flight manual etc. 133.030 Compliance with flight manual Part 133 MOS Chapter 2
		—		Chapter 9 (9.01, 9.02, 9.03, 9.04)				Section 9.01 of the Part 133 MOS contains an exemption from compliance with subregulation 91.555 (1) of CASR - seating for crew members other than flight crew members.  Chapter 9 of the Part 133 MOS contains directions for: <ul style="list-style-type: none"> <li>wearing of seatbelt (9.02)</li> <li>wearing of safety harness or restraint strap — medical transport operation (9.03)</li> <li>wearing of safety harness and restrain strap — crew member (9.04).</li> </ul>
		119.170	Training and checking system					The operator's training and checking system must include training and checking of crew who are not flight crew or cabin crew.  For the definition of <i>air crew</i> and <i>medical transport specialist</i> , refer to the CASA Flight operations regulations - consolidated dictionary, available on the CASA website.
		119.180	Training in human factors principles and non-technical skills for flight crew etc.					<b>Other provisions</b> 133.385 Pilot in command 133.390 Co-pilot Division 133.P.2 Air crew Division 133.P.3 Medical transport specialist
<b>48.1 Civil Aviation Order 48.1 Instrument 2019</b>								
		—						The requirement to comply with the CAO 48.1 fatigue management rules will continue beyond the 2 December 2021 commencement of the CASR flight operations regulations. These rules will be incorporated into the CASR in due course.  <b>Other provisions</b> Subpart 119.G—Personnel fatigue management (reserved for future use) 91.520 Crew members to be fit for duty (requirements that apply for all crew members).



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR	Part 133 MOS	Part 91 of CASR	Part 91 MOS	Comments
<b>52.1 Use of airspace - Directions under r 99AA about the use of class A airspace</b>						
		—		91.655	RVSM airspace	<p>The Part 91 MOS prescribes that flight in RVSM airspace must be conducted in accordance with procedures published in the authorised aeronautical information.</p> <p>For the definition of <i>authorised aeronautical information</i>, refer to the CASA Flight operations regulations - consolidated dictionary.</p> <p><b>Other provisions</b>            91.255 Air traffic services—prescribed requirements            Part 91 MOS Chapter 11 (11.07)            91.630 Use of radio—broadcasts and reports            Part 91 MOS Chapter 21 (Table 21.05(1) item 7 and 21.08)            Part 91 MOS Chapter 11 (11.07)</p>
<b>82.0 Civil Aviation Order 82.0 Instrument 2014</b>						
82.0.1	Application	—		—		
82.0.2	Definitions	—		—		
82.0.3	Conditions relating to 'borrowed' certificates	119.255	Dealings in relation to cancelled, suspended, varied, pending or refused civil aviation authorisations	—		
82.0.3A	Conditions on all passenger-carrying aeroplane operations to remote islands	—		—		
82.0.3B	En route performance for 3 or 4 turbine-engine aeroplanes	—		—		
82.0.3BA	Distance limitations—piston-engine aeroplanes	—		—		
82.0.3BB	Distance limitations—19 passengers or less and exceeding 5,700kg MTOW	—		—		
82.0.3BC	Distance limitations—more than 19 passengers or 3,410 kg payload	—		—		
82.0.3BD	Polar operations	133.290	Polar operations	—		
82.0.3C	Conditions relating to charter substitutions	—		—		



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
82.0.3D	Condition for use of NVD by an AOC holder	133.265	NVIS flights	Chapter 8	—			The Part 133 MOS prescribes that the requirements for the use of a night vision imaging system are the requirements stated in CAO 82.6. Refer to the entries against CAO 82.6 below.  <b>Other provisions</b> 133.167 Minimum height rules for medical transport operations Part 133 MOS Chapter 5 (5.10, 5.11)
82.0.3E	Condition for use of flight crew MP(A)L	—			—			
82.0.4	General AOC conditions— safety operational specifications	—			—			<b>Other provisions</b> 119.055 Compliance with Australian air transport AOCs 119.060 Compliance with conditions of Australian air transport AOCs
82.0.5	Chief Pilot	—			—			The position previously titled 'chief pilot' is referred to as the 'head of flying operations'. Part 119 of CASR prescribes the qualifications and experience of the head of flying operations and the responsibilities of the position. Refer to the following regulations: <ul style="list-style-type: none"> <li>• 119.135 Head of flying operations—qualifications and experience</li> <li>• 119.140 Head of flying operations—responsibilities</li> <li>• 119.165 Key personnel—additional qualification and experience requirements.</li> </ul> Subregulation 119.135 (5) prescribes that CASA may direct the head of flying operations, or the proposed head of flying operations, to undertake an assessment.  <b>Other provisions</b> Subsection 28 (3) of the <i>Civil Aviation Act 1998</i>
82.0.6	Variation of conditions or obligations	Subpart 119.C	Changes relating to Australian air transport operators		—			<b>Other provisions</b> 119.020 Definition of <i>significant change</i>
82.0.7	Primacy of synthetic training devices in training	133.370	Composition, number, qualifications and training	Chapter 12 Division 4	—			The Part 133 MOS prescribes flight simulator training and checking requirements for certain types of rotorcraft.
82.0.8	Pilot with co-pilot endorsement	—			—			Civil Aviation Order 40.1.0 has been repealed. Chapter 12 of the Part 133 MOS prescribes the requirements for flight crew training and checking.  <b>Other provisions</b> 133.390 Co-pilot 133.370 Composition, number, qualifications and training Part 133 MOS Chapter 12 Division 4
82.0.8A	Aircraft ratings — aeroplanes	—			—			



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
82.0.8B	Recent experience requirements — aeroplanes	—			—			
82.0.8C	Aircraft ratings — helicopters	133.385	Pilot in command		—			<p>Regulation 133.385 of CASR prescribes the minimum flight hours required to qualify as pilot in command.</p> <p>The operator's exposition must include the minimum flying experience requirements for the rotorcraft operated by the operator.</p> <p><b>Other provisions</b> 133.420 Recent experience requirements—90 days before flight</p>
82.0.9	Training and checking manuals	119.205	Content of exposition		—			<p>Part 119 of CASR introduces the requirement for:</p> <ul style="list-style-type: none"> <li>all Australian air transport operators to have a training and checking system</li> <li>all Australian air transport operators to have a program for training and assessing operational safety-critical personnel in human factors.</li> </ul> <p>These may be scaled according to the size and complexity of the operations conducted by the operator.</p> <p>Regulation 119.170 of CASR prescribes that a training and checking system must include a description of how training and checking is conducted, competence is assessed, an auditable system for maintaining records and other procedures. The operator's exposition must include information about plans, processes, procedures, programs and systems, which may be set out in one or more operator manuals.</p> <p>Some provisions in the flight operations CASR Parts will be deferred. For information about deferred provisions, refer to AC 1-03 – Transitioning to the new flight operations regulations, available on the CASA website.</p>
82.0.10	Mandatory training and checking in synthetic training devices	133.370	Composition, number, qualifications and training	Chapter 12 Division 4	—			<p>Part 91 of CASR places restrictions on the causing or simulating of instrument and engine failures in aircraft. Refer to the following subdivisions:</p> <ul style="list-style-type: none"> <li>91.D.11.1—Causing or simulating instrument failure etc.</li> <li>91.D.11.3—Causing or simulating engine failure etc. for rotorcraft.</li> </ul> <p><b>Other provisions</b> 133.205 Simulation of emergency or abnormal situations</p>
82.0.11	Use of electronic flight bags (EFB)	133.280	Procedures relating to portable electronic devices		91.175	Operation of portable electronic devices by crew members		<p>Refer to AC 91-17 – Electronic flight bags<sup>3</sup>, available on the CASA website.</p> <p><b>Other provisions</b> 91.170 Operation of portable electronic devices (a new provision). 133.110 Crew activities necessary for safe operation (a new provision).</p>

<sup>3</sup> At the time of publication of this document, this AC is under development. Once published, it will be available from the CASA website.



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
Appendix 1	Chief Pilot - approval, responsibilities etc	—			—			Refer to the entries for subsection 5.
Appendix 2	Adequate aerodrome — physical requirements	—			—			
Appendices 3 - 5	EDTO approval and conditions	—			—			
Appendix 6	Polar operations	133.290	Polar operations		—			
Appendix 7	MP(A)L Line Check — ICAO Evaluation Form	—			—			
Appendix 8	Requirements for use of qualified synthetic training devices for other aircraft and aircraft types	—			—			
Appendix 8B	Proficiency Check	—			—			
Appendix 8C	Minimum aeronautical experience requirements to conduct charter, or regular public transport, operations in a type of helicopter	—			—			Refer to the entries for subsection 8C.
Appendix 9	Requirements to be met for the use of an EFB	—			—			Refer to the entries for subsection 11.
<b>82.1 Conditions on air operators' certificates authorising charter and aerial work operations</b>								
82.1.1	Application of conditions	—			—			
82.1.2	Obligations in relation to organisation and facilities	119.110	Organisation and personnel		—			<p>Section 28 of the <i>Civil Aviation Act 1998</i> prescribes matters in relation to organisation and facilities.</p> <p>The position previously titled 'chief pilot' is referred to as the 'head of flying operations'. Part 119 of CASR prescribes the qualifications and experience of the head of flying operations and the responsibilities of the position. Refer to the following regulations:</p> <ul style="list-style-type: none"> <li>• 119.135 Head of flying operations—qualifications and experience</li> <li>• 119.140 Head of flying operations—responsibilities</li> <li>• 119.165 Key personnel—additional qualification and experience requirements.</li> </ul> <p>Regulation 119.190 of CASR prescribes that an Australian air transport operator must have a safety management system that is appropriate for the size, nature and complexity of the operations (a new requirement for some operators).</p>
		Subpart 119.J	Records and documents					



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR	Part 91 MOS	Comments
		119.205	Content of exposition				<p>Some provisions in the flight operations CASR Parts will be deferred. For information about deferred provisions, refer to AC 1-03 – Transitioning to the new flight operations regulations, available on the CASA website.</p> <p><b>Other provisions</b> 119.070 Conditions for issue Subsection 28 (3) of the <i>Civil Aviation Act 1998</i> 119.195 Flight data analysis program requirements</p>
82.1.3	Obligations in relation to training and checking	Subpart 119.E	Training and checking for operational safety-critical personnel		—		<p>Part 119 of CASR introduces the requirement for:</p> <ul style="list-style-type: none"> <li>all Australian air transport operators to have a training and checking system</li> <li>all Australian air transport operators to have a program for training and assessing operational safety-critical personnel in human factors.</li> </ul> <p>These may be scaled according to the size and complexity of the operations conducted by the operator.</p> <p>Part 133 of CASR prescribes the training and checking requirements for:</p> <ul style="list-style-type: none"> <li>flight crew</li> <li>cabin crew</li> <li>air crew</li> <li>medical transport specialists.</li> </ul> <p>For guidance on training and checking systems refer to the AMC/GM documents for Parts 119 and 133, and AC 119-11 – Training and checking systems<sup>4</sup>.</p> <p>Some provisions in the flight operations CASR Parts will be deferred. For information about deferred provisions, refer to AC 1-03 – Transitioning to the new flight operations regulations, available on the CASA website.</p>
		133.377	Training and checking to be conducted by certain persons	Chapter 12 Division 3			
82.1.4	Obligations in relation to flight crew requirements	133.385	Pilot in command		—		<p>Regulation 133.385 prescribes the minimum flight hours required to qualify as pilot in command.</p> <p>The operator's exposition must include the minimum flying experience requirements for the rotorcraft operated by the operator.</p> <p><b>Other provisions</b> 133.420 Recent experience requirements—90 days before flight</p>

<sup>4</sup> At the time of publication of this document, this AC is under development. Once published, it will be available from the CASA website.



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR		Part 91 MOS	Comments
82.1.5	Obligations in relation to foreign registered aircraft	Subpart 133.K	Equipment	Chapter 11 Division 6 (11.18, 11.19)	—			Part 133 prescribes the requirement for certain rotorcraft to be fitted with a helicopter terrain awareness and warning system.  Some provisions in the flight operations CASR Parts will be deferred. For deferral requirements regarding the fitment of an approved HTAWS, refer to the Part 133 MOS section 11.28 and AC 1-03 – Transitioning to the new flight operations regulations, available on the CASA website.  <b>Other provisions</b> 119.260 Maximum period for use of foreign registered aircraft in Australian territory
82.1.6	Obligations in relation to operating different aircraft models	Division 133.N.2	Operation of rotorcraft of different types					For an operator who assigns, or is likely to assign, flight crew to different multi-engine rotorcraft for Part 133 operations, regulation 133.415 of CASR prescribes requirements for inclusion in the operator's exposition.
		133.375	Competence					
82.1.7	Obligations in relation to AOC Holder's Safety Questionnaire	—			—			
Appendix 1	Facilities and documentation	119.040	Required material for reference library		—			<b>Other provisions</b> Section 28 of the <i>Civil Aviation Act 1998</i> 119.070 Conditions for issue
		119.205	Content of exposition					
		119.215	Providing personnel with exposition					
		Subpart 119.J	Records and documents					
Appendix 2	Training and checking organisation	119.036	Required position—head of training and checking		—			Regulation 119.170 of CASR prescribes that a training and checking system must include a description of how training and checking is conducted, competence is assessed, an auditable system for maintaining records and other procedures. The operator's exposition must include information about plans, processes, procedures, programs and systems, which may be set out in one or more operator manuals.  <b>Other provisions</b> 119.225 Personnel training and checking records—making records 119.230 Personnel training and checking records—availability of records
		119.150	Head of training and checking—responsibilities					
		119.205	Content of exposition					
		119.215	Providing personnel with exposition					
Appendix 3	Directions relating to carriage and use of automatic dependent surveillance – broadcast equipment	Subpart 133.K	Equipment	Chapter 11 Division 13	—			
Appendix 3A	Standards for Mode S transponder equipment	Subpart 133.K	Equipment	Chapter 11 Division 13	—			



Civil Aviation Orders		Part 133 of CASR / Part 119 of CASR		Part 133 MOS	Part 91 of CASR	Part 91 MOS	Comments
Appendix 4	ADS-B	Subpart 133.K	Equipment	Chapter 11 Division 13	—		
<b>82.6 Night vision imaging system - helicopters</b>							
		—			—		<p>Regulation 133.265 of CASR prescribes NVIS requirements for Part 133 operations (the Part 91 NVIS requirements do not apply).</p> <p>Chapter 8 of the Part 133 MOS currently prescribes that the requirements for the use of NVIS are those stated in CAO 82.6.</p> <p>The exposition must contain certain procedures for using a night vision imaging system during an IFR flight or a VFR flight at night in a rotorcraft that is fitted with the system.</p> <p>The movement of relevant CAO 82.6 content into the CASR is currently the subject of active work by CASA, with a dedicated Technical Working Group consisting of industry members already established. CASA intends to consult with this working group, and publicly consult NVIS related MOS amendments (whether Part 91, 133 or 138) in the 1st half of 2021.</p> <p><b>Other provisions</b> Subpart 133.K Equipment Chapter 11 Division 14 (reserved)</p>
<b>95.7.2 Exemption of helicopters engaged in rappelling, sling load or winching operations from compliance with certain flight manual limitations</b>							
		133.030	Compliance with flight manual	Chapter 2	—		Subregulation 133.030 (2) of CASR provides an alleviation from a certain flight manual limitation during medical transport operations, in prescribed circumstances. Refer to section 2.02 of the Part 133 MOS.