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(ii) severe air turbulence; (iii) sudden decompression, including the donning of portable oxygen equipment by each cabin crew member; and (iv) other in-flight emergencies.	3.d
(f) Crowd control. An operator shall ensure that training is provided on the practical aspects of crowd control in various emergency situations, as applicable to the aeroplane type.	OR.OPS.CC.125(c)(3)(iv) + AMC1 OR.OPS.CC.125(c) 4.
(g) Pilot incapacitation. An operator shall ensure that, unless the minimum flight crew is more than two, each cabin crew member is trained in the procedure for flight crew member incapacitation and shall operate the seat and harness mechanisms. Training in the use of flight crew members' oxygen system and use of the flight crew members' checklists, where required by the operator's SOP's, shall be conducted by a practical demonstration.	OR.OPS.CC.125(c)(3)(vii) + AMC1 OR.OPS.CC.125(c) 7.
(h) Safety equipment. An operator shall ensure that each cabin crew member is given realistic training on, and demonstration of, the location and use of safety equipment including the following:	OR.OPS.CC125(b)(2)(ii) and (c)(3)(ii) + AMC1 OR.OPS.CC.125(b)(2) + AMC1 OR.OPS.CC.125(c)(2)
(1) slides, and where non-self-supporting slides are carried, the use of any associated ropes; (2) life-rafts and slide-raft, including the equipment attached to, and/or carried in, the raft; (3) lifejackets, infant lifejackets and flotation cots; (4) dropout oxygen system; (5) first-aid oxygen; (6) fire extinguishers; (7) fire axe or crow-bar; (8) emergency lights including torches; (9) communication equipment, including megaphones; (10) survival packs, including their contents; (11) pyrotechnics (actual or representative devices); (12) first-aid kits, emergency medical kits, their contents and emergency medical equipment; and (13) other cabin safety equipment or systems where applicable.	.125(b) - 2.a. .125(c) - 2.g. .125(b) - 2.b. .125(c) - 2.g. .125(c)- 2.a. .125(b) - 2.c. + .125(c) - 2.b.(covers both points 4 & 5) .125(c) - 2.c. .125(c) - 2.d. .125(c) - 2.e. .125(b) - 2.d. .125(c) - 2.f. .125(c) - 2.g. .125(c) - 2.h. .125(c) - 2.i. .125(b) - 2.e. .125(c) - 2.j.
(i) Passenger briefing/safety demonstrations. An operator shall ensure that training is given in the preparation of passengers for normal and emergency situations in accordance	AMC1 OR.OPS.CC.125(c) - 3.a. OR.OPS.CC.125(c)(3)(iv)

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with OPS 1.285.	
(j) When initial medical aspects and first aid training has not included the avoidance of infectious diseases, especially in tropical and sub-tropical climates, such training shall be provided if an operator's route network is extended or changed to include such areas.	This was not transposed as it was a transition measure at that time which is not anymore relevant
<p>(k) Crew Resource Management. An operator shall ensure that:</p> <p>(1) Each cabin crew member completes the Operator's CRM Training covering the training elements in Appendix 2 to OPS 1.1005/1.1010/1.1015 Table 1, Column (a) to the level required in Column (c) before undertaking subsequent Aeroplane Type Specific CRM and/or recurrent CRM Training.</p> <p>(2) When a cabin crew member undertakes a conversion course on another aeroplane type, the training elements in Appendix 2 to OPS 1.1005/1.1010/1.1015 Table 1, Column (a) shall be covered to the level required in Column (d), Aeroplane Type Specific CRM.</p> <p>(3) The Operator's CRM Training and Aeroplane Type Specific CRM shall be conducted by a least one cabin crew CRM instructor.</p>	<p>OR.OPS.CC.125(c)(3)(viii) + AMC1-OR.OPS.CC.115(e) + AMC1-OR.OPS.CC.125(c) Point 8. .125(c) - 8.a.</p> <p>.125(c) - 8.b.</p> <p>.125(c) - 8.c.</p>
Appendix 1 to OPS 1.1015 Recurrent training	OR.OPS.CC.140
<p>(a) An operator shall ensure that recurrent training is conducted by suitably qualified persons.</p> <p>(b) An operator shall ensure that every 12 calendar months the programme of practical training includes the following:</p> <p>(1) Emergency procedures including pilot incapacitation;</p> <p>(2) Evacuation procedures including crowd control techniques;</p> <p>(3) Touch-drills by each cabin crew member for opening normal and emergency exits for passenger evacuation;</p> <p>(4) The location and handling of emergency equipment, including oxygen systems, and the donning by each cabin crew member of lifejackets, portable oxygen and protective breathing equipment (PBE);</p> <p>(5) Medical aspects and first-aid, first-aid kits, emergency medical kits, their contents and emergency medical equipment;</p> <p>(6) Stowage of articles in the cabin;</p> <p>(7) Security procedures;</p> <p>(8) Incident and accident review;</p>	<p>OR.OPS.CC.115(c)(2)</p> <p>OR.OPS.CC.140(c) (c)(1)(iv) (c)(1)(v) + AMC1 OR.OPS.CC.140 (paras 1&2 merged)</p> <p>OR.OPS.CC.140 (b)(1)</p> <p>(c)(1)(i)</p> <p>AMC1 OR.OPS.CC.140 – point 1.a.</p> <p>OR.OPS.CC.140(c)(1)(viii) (c)(1)(ii)</p> <p>(c)(1)(ix)</p>
(9) Awareness of the effects of surface contamination and the need to inform the flight crew of any observed surface	(c)(1)(vi)

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contamination, and	
<p>(10) Crew resource management. An operator shall ensure that CRM training satisfies the following:</p> <p>(i) The training elements in Appendix 2 to OPS 1.1005/1.1010/1.1015 Table 1, Column (a) shall be covered within a three year cycle to the level required by Column (e), Annual Recurrent CRM Training.</p> <p>(ii) The definition and implementation of this syllabus shall be managed by a cabin crew CRM instructor.</p> <p>(iii) When CRM training is provided by stand-alone modules, it shall be conducted by at least one cabin crew CRM instructor</p>	<p>(c)(1)(iii)</p> <p>(c)(1)(vii) + AMC1-OR.OPS.CC.140 point 1.c.+ AMC1-OR.OPS.CC.115(e)(3)</p> <p>AMC1-OR.OPS.CC.140 point 1.c .ii</p> <p>point 1.c .iii</p>
<p>(c) An operator shall ensure that, at intervals not exceeding 3 years, recurrent training also includes:</p> <p>(1) Each cabin crew member operating and actually opening each type or variant of normal and emergency exit in the normal and emergency modes, including failure of power assist systems where fitted. This is to include the action and forces required to operate and deploy evacuation slides. This training shall be conducted in an aeroplane or representative training device;</p> <p>(2) demonstration of the operation of all other exits including flight deck windows;</p> <p>(3) each cabin crew member being given realistic and practical training in the use of all fire-fighting equipment, including protective clothing, representative of that carried in the aircraft.</p> <p>This training must include:</p> <p>(i) each cabin crew member extinguishing a fire characteristic of an aeroplane interior fire except that, in the case of Halon extinguishers, an alternative extinguishing agent may be used; and</p> <p>(ii) the donning and use of protective breathing equipment by each cabin crew member in an enclosed, simulated smoke-filled environment.</p> <p>(4) use of pyrotechnics (actual or representative devices); and</p> <p>(5) demonstration of the use of the life-raft, or slide-raft, where fitted.</p> <p>(6) An operator shall ensure that, unless the minimum flight crew is more than two, each cabin crew member is trained in the procedure for flight crew member incapacitation and shall operate the seat and harness mechanisms. Training in the use of flight crew members' oxygen system and use of the flight crew members' checklists, where required by the operator's SOP's, shall be conducted by a practical demonstration</p>	<p>OR.OPS.CC.140(b)(2) and (c)(2)</p> <p>(c)(2)(i)(1stpara) + AMC1 OR.OPS.CC.140 – point 2.a.</p> <p>OR.OPS.CC.140(b)(2)(ii)</p> <p>OR.OPS.CC.140(c)(2)(iii) + AMC1-OR.OPS.CC.140 – point 2.b.</p> <p>OR.OPS.CC.140(c)(2)(iv) AMC1 OR.OPS.CC.140 – point 2.b.</p> <p>OR.OPS.CC.140(c)(2)(iv) (c)(2)(i)</p> <p>(b)(2)(iv)</p> <p>(b)(2)(ii)</p> <p>(c)(2)(ii)</p>
<p>(d) An operator shall ensure that all appropriate requirements of Annex III, OPS 1 are included in the training of cabin crew</p>	<p>This is covered by the general responsibilities of the operator</p>

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members.	in OR.GEN.
Appendix 1 to OPS 1.1020 Refresher training	OR.OPS.CC.145
<p>An operator shall ensure that refresher training is conducted by suitable qualified persons and, for each cabin crew member, includes at least the following:</p> <p>(1) Emergency procedures including pilot incapacitation;</p> <p>(2) Evacuation procedures including crowd control techniques;</p> <p>(3) The operation and actual opening of each type or variant of normal and emergency exit in the normal and emergency modes, including failure of power assist systems where fitted. This is to include the action and forces required to operate and deploy evacuation slides. This training shall be conducted in an aeroplane or representative training device;</p> <p>(4) Demonstration of the operation of all other exits including flight deck windows; and</p> <p>(5) The location and handling of emergency equipment, including oxygen systems, and the donning of lifejackets, portable oxygen and protective breathing equipment.</p>	<p>OR.OPS.CC.115(c) OR.OPS.CC.145(b)</p> <p>(b)(1)</p> <p>(b)(2) AMC1 OR.OPS.CC.145</p> <p>OR.OPS.CC.145 (b)(3) + AMC1 OR.OPS.CC.145 Point 2.</p> <p>(b)(4)</p> <p>(b)(5)</p>
Appendix 2 to OPS 1.1005/1.1010/1.1015 Training	
<p>(1) The CRM training syllabi, together with CRM methodology and terminology, shall be included in the Operations Manual.</p> <p>(2) Table 1 indicates which elements of CRM shall be included in each type of training.</p> <p style="text-align: center;">Table 1 CRM Training</p> <p><i>Note: Table not included for formatting reasons.</i></p>	<p>OR.OPS.CC.115 (a) and (e) AMC1 OR.OPS.CC.115(e) GM1 OR.OPS.CC.115(e)</p>
Appendix 3 to OPS 1.1005/1.1010/1.1015 Medical aspects and first aid training	
<p>(a) Medical aspects and first aid training shall include the following subjects:</p> <p>(1) Physiology of flight including oxygen requirements and hypoxia;</p> <p>(2) Medical emergencies in aviation including:</p> <p>i. Asthma;</p> <p>ii. Choking;</p> <p>iii. Heart attacks;</p> <p>iv. Stress reactions and allergic reactions;</p>	<p>AMC1 CC.TRA.220(b)Point 5.</p> <p>5.b.</p> <p>5.d.</p> <p>5.d.i.</p> <p>5.d.v.</p> <p>5.d.ix.</p> <p>5.d.ii</p>
v. Shock;	5.d.iii.

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vi. Stroke; vii. Epilepsy; viii. Diabetes; ix. Air sickness; x. Hyperventilation; xi. Gastro-intestinal disturbances; and xii. Emergency childbirth;	5.d.viii. 5.d.vi. 5.d.iv. 5.c.i. 5.c.ii. 5.c.i. 5.d.vii
(3) Practical cardio-pulmonary resuscitation by each cabin crew member having regard to the aeroplane environment and using a specifically designed dummy;	5.f.
(4) Basic first aid and survival training including care of:	5.c.
i. The unconscious; ii. Burns; iii. Wounds; and iv. Fractures and soft tissue injuries; (5) Travel health and hygiene including: i. The risk of contact with infectious diseases especially when operating into tropical and sub-tropical areas. Reporting of infectious diseases, protection from infection and avoidance of water-borne and food-borne illness. Training shall include the means to reduce such risks; ii. Hygiene on board; iii. Death on board; iv. Handling of clinical waste; v. Aircraft disinfection; and vi. Alertness management, physiological effects of fatigue, sleep physiology, circadian rhythm and time zone changes; (6) The use of appropriate aeroplane equipment including first aid kits, emergency medical kits, first aid oxygen and emergency medical equipment.	5.c.v. 5.c.iii. 5.c.iv. 5.c.vi. 5.g. 5.g.ii. 5.g.i. 5.g.v. 5.g.iii. 5.g.iv. 5.g.vi. 5.e.

EU-OPS SUBPART P
MANUALS, LOGS AND RECORDS

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OPS 1.1040 General Rules for Operations Manuals	
(a) An operator shall ensure that the Operations Manual contains all instructions and information necessary for operations personnel to perform their duties.	OR.OPS.MLR.100(a): Reference to 8b BR instead of EU-OPS text
(b) An operator shall ensure that the contents of the Operations Manual, including all amendments or revisions, do not contravene the conditions contained in the Air Operator Certificate (AOC) or any applicable regulations and are acceptable to, or, where applicable, approved by, the Authority.	OR.OPS.MLR.100(b)
(c) Unless otherwise approved by the Authority, or prescribed by national law, an operator must prepare the Operations Manual in the English language. In addition, an operator may translate and use that manual, or parts thereof, into another language.	Not transferred as against Community principles giving all EU languages an equal status
(d) Should it become necessary for an operator to produce new Operations Manuals or major parts/volumes thereof, he must comply with subparagraph (c) above.	Not transferred as against Community principles giving all EU languages an equal status
(e) An operator may issue an Operations Manual in separate volumes.	OR.OPS.MLR.100(c)
(f) An operator shall ensure that all operations personnel have easy access to a copy of each part of the Operations Manual which is relevant to their duties. In addition, the operator shall supply crew members with a personal copy of, or sections from, Parts A and B of the Operations Manual as are relevant for personal study.	OR.OPS.MLR.100(d) OR.OPS.MLR.100(f)
(g) An operator shall ensure that the Operations Manual is amended or revised so that the instructions and information contained therein are kept up to date. The operator shall ensure that all operations personnel are made aware of such changes that are relevant to their duties.	OR.OPS.MLR.100(e)
(h) Each holder of an Operations Manual, or appropriate parts of it, shall keep it up to date with the amendments or revisions supplied by the operator.	OR.OPS.MLR.100(f)
(i) An operator shall supply the Authority with intended amendments and revisions in advance of the effective date. When the amendment concerns any part of the Operations Manual which must be approved in accordance with OPS, this approval shall be obtained before the amendment becomes effective. When immediate amendments or revisions are required in the interest of safety, they may be published and applied immediately, provided that any approval required has	OR.OPS.MLR.100(g) OR.OPS.MLR.100(h)

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been applied for.	
(j) An operator shall incorporate all amendments and revisions required by the Authority.	OR.OPS.MLR.100(i)
(k) An operator must ensure that information taken from approved documents, and any amendment of such approved documentation, is correctly reflected in the Operations Manual and that the Operations Manual contains no information contrary to any approved documentation. However, this requirement does not prevent an operator from using more conservative data and procedures.	OR.OPS.MLR.100(j)
(l) An operator must ensure that the contents of the Operations Manual are presented in a form in which they can be used without difficulty. The design of the Operations Manual shall observe Human Factors principles.	OR.OPS.MLR.100(k)
(m) An operator may be permitted by the Authority to present the Operations Manual or parts thereof in a form other than on printed paper. In such cases, an acceptable level of accessibility, usability and reliability must be assured.	AMC1-OR.OPS.MLR.100(2)
(n) The use of an abridged form of the Operations Manual does not exempt the operator from the requirements of OPS 1.130.	n/a
OPS 1.1045 Operations Manual – structure and contents (See Appendix 1 to OPS 1.1045)	
(a) An operator shall ensure that the main structure of the Operations Manual is as follows: Part A: General/Basic This part shall comprise all non type-related operational policies, instructions and procedures needed for a safe operation. Part B: Aeroplane Operating Matters This part shall comprise all type-related instructions and procedures needed for a safe operation. It shall take account of any differences between types, variants or individual aeroplanes used by the operator. Part C: Route and Aerodrome Instructions and Information This part shall comprise all instructions and information needed for the area of operation. Part D: Training This part shall comprise all training instructions for personnel required for a safe operation.	OR.OPS.MLR.101
(b) An operator shall ensure that the contents of the Operations Manual are in accordance with Appendix 1 to OPS 1.1045 and relevant to the area and type of operation.	AMC3-OR.OPS.MLR.100
(c) An operator shall ensure that, the detailed structure of the Operations Manual is acceptable to the Authority.	n/a

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OPS 1.1050 Aeroplane Flight Manual	
An operator shall keep a current approved Aeroplane Flight Manual or equivalent document for each aeroplane that it operates.	Covered by Part-CAT (Carriage of Documents)
OPS 1.1055 Journey log	
<p>(a) An operator shall retain the following information for each flight in the form of a Journey Log:</p> <ol style="list-style-type: none"> (1) Aeroplane registration; (2) Date; (3) Name(s) of crew member(s); (4) Duty assignment of crew member(s); (5) Place of departure; (6) Place of arrival; (7) Time of departure (off-block time); (8) Time of arrival (on-block time); (9) Hours of flight; (10) Nature of flight; (11) Incidents, observations (if any); and (12) Commander's signature (or equivalent). 	OR.OPS.MLR.110 Contents: AMC1-OR.OPS.MLR.110(1)
<p>(b) An operator may be permitted not to keep an aeroplane journey log, or parts thereof, by the Authority if the relevant information is available in other documentation.</p>	AMC1-OR.OPS.MLR.110(3)
<p>(c) An operator shall ensure that all entries are made concurrently and that they are permanent in nature.</p>	n/a
OPS 1.1060 Operational flight plan	
<p>(a) An operator must ensure that the operational flight plan used and the entries made during flight contain the following items:</p> <ol style="list-style-type: none"> (1) Aeroplane registration; (2) Aeroplane type and variant; (3) Date of flight; (4) Flight identification; (5) Names of flight crew members; (6) Duty assignment of flight crew members; (7) Place of departure; (8) Time of departure (actual off-block time, take-off time); (9) Place of arrival (planned and actual); (10) Time of arrival (actual landing and on-block time); (11) Type of operation (ETOPS, VFR, Ferry flight, etc.) (12) Route and route segments with checkpoints/waypoints, distances, time and tracks; 	Covered by Part-CAT

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(13) Planned cruising speed and flying times between checkpoints/waypoints. Estimated and actual times overhead; (14) Safe altitudes and minimum levels; (15) Planned altitudes and flight levels; (16) Fuel calculations (records of in-flight fuel checks); (17) Fuel on board when starting engines; (18) Alternate(s) for destination and, where applicable, take-off and en-route, including information required in subparagraphs (12), (13), (14), and (15) above; (19) Initial ATS Flight Plan clearance and subsequent re-clearance; (20) In-flight re-planning calculations; and (21) Relevant meteorological information.	
(b) Items which are readily available in other documentation or from another acceptable source or are irrelevant to the type of operation may be omitted from the operational flight plan	Covered by Part-CAT
(c) An operator must ensure that the operational flight plan and its use are described in the Operations Manual.	Covered by Part-CAT
(d) An operator shall ensure that all entries on the operational flight plan are made concurrently and that they are permanent in nature.	Covered by Part-CAT
OPS 1.1065 Document storage periods	
An operator shall ensure that all records and all relevant operational and technical information for each individual flight, are stored for the periods prescribed in Appendix 1 to OPS 1.1065.	n/a
OPS 1.1070 Operator's continuing airworthiness management exposition	
An operator shall keep a current approved continuing airworthiness management exposition as prescribed in Part M, paragraph M.A.704 Continuing airworthiness management exposition.	n/a
OPS 1.1071 Aeroplane Technical Log	
An operator shall keep an aeroplane technical log as prescribed in Part M, paragraph M.A.306 Operator's technical log system.	n/a
Appendix 1 to OPS 1.1045 Operations Manual Contents	AMC3-OR.OPS.MLR.100(1)
An operator shall ensure that the Operations Manual contains the following: A. GENERAL/BASIC 0. ADMINISTRATION AND CONTROL OF OPERATIONS MANUAL 0.1. Introduction (a) A statement that the manual complies with all applicable regulations and with the terms and conditions of the	AMC3-OR.OPS.MLR.100(1)

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<p>applicable Air Operator Certificate.</p> <p>(b) A statement that the manual contains operational instructions that are to be complied with by the relevant personnel.</p> <p>(c) A list and brief description of the various parts, their contents, applicability and use.</p> <p>(d) Explanations and definitions of terms and words needed for the use of the manual.</p>	
<p>0.2. System of amendment and revision</p> <p>(a) Details of the person(s) responsible for the issuance and insertion of amendments and revisions.</p> <p>(b) A record of amendments and revisions with insertion dates and effective dates.</p> <p>(c) A statement that handwritten amendments and revisions are not permitted except in situations requiring immediate amendment or revision in the interest of safety.</p> <p>(d) A description of the system for the annotation of pages and their effective dates.</p> <p>(e) A list of effective pages.</p> <p>(f) Annotation of changes (on text pages and, as far as practicable, on charts and diagrams).</p> <p>(g) Temporary revisions.</p> <p>(h) A description of the distribution system for the manuals, amendments and revisions.</p>	AMC3-OR.OPS.MLR.100(1)
<p>1. ORGANISATION AND RESPONSIBILITIES</p> <p>1.1. Organisational structure. A description of the organisational structure including the general company organigram and operations department organigram. The organigram must depict the relationship between the Operations Department and the other Departments of the company. In particular, the subordination and reporting lines of all Divisions, Departments, etc., which pertain to the safety of flight operations, must be shown.</p> <p>1.2. Nominated postholders. The name of each nominated postholder responsible for flight operations, the maintenance system, crew training and ground operations, as prescribed in OPS 1.175(i). A description of their function and responsibilities must be included.</p> <p>1.3. Responsibilities and duties of operations management personnel. A description of the duties, responsibilities and authority of operations management personnel pertaining to the safety of flight operations and the compliance with the applicable regulations.</p> <p>1.4. Authority, duties and responsibilities of the commander. A statement defining the authority, duties and responsibilities of the commander.</p> <p>1.5. Duties and responsibilities of crew members other than the commander</p>	AMC3-OR.OPS.MLR.100(1)

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<p>2. OPERATIONAL CONTROL AND SUPERVISION</p> <p>2.1. Supervision of the operation by the operator. A description of the system for supervision of the operation by the operator (see OPS 1.175(g)). This must show how the safety of flight operations and the qualifications of personnel are supervised. In particular, the procedures related to the following items must be described:</p> <ul style="list-style-type: none"> (a) Licence and qualification validity; (b) Competence of operations personnel; and (c) Control, analysis and storage of records, flight documents, additional information and data. <p>2.2. System of promulgation of additional operational instructions and information. A description of any system for promulgating information which may be of a non-operational nature but is supplementary to that in the Operations Manual. The applicability of this information and the responsibilities for its promulgation must be included.</p> <p>2.3. Accident prevention and flight safety programme. A description of the main aspects of the flight safety programme.</p> <p>2.4. Operational control. A description of the procedures and responsibilities necessary to exercise operational control with respect to flight safety.</p> <p>2.5. Powers of the Authority. A description of the powers of the Authority, and guidance to staff on how to facilitate inspections by Authority personnel.</p>	<p>AMC3-OR.OPS.MLR.100(1)</p>
<p>3. QUALITY SYSTEM</p> <p>A description of the quality system adopted including at least:</p> <ul style="list-style-type: none"> (a) Quality policy; (b) A description of the organisation of the Quality System; and (c) Allocation of duties and responsibilities. 	<p>AMC3-OR.OPS.MLR.100(1)</p>
<p>4. CREW COMPOSITION</p> <p>4.1. Crew Composition. An explanation of the method for determining crew compositions taking account of the following:</p> <ul style="list-style-type: none"> (a) The type of aeroplane being used; (b) The area and type of operation being undertaken; (c) The phase of the flight; (d) The minimum crew requirement and flight duty period planned; (e) Experience (total and on type), recency and qualification of the crew members; and (f) The designation of the commander and, if necessitated by the duration of the flight, the procedures for the relief of the commander or other members of the flight crew (See Appendix 1 to OPS 1.940). (g) The designation of the senior cabin crew member and, if necessitated by the duration of the flight, the procedures 	<p>AMC3-OR.OPS.MLR.100(1)</p>

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<p>for the relief of the senior cabin crew member and any other member of the cabin crew.</p> <p>4.2. Designation of the commander. The rules applicable to the designation of the commander.</p> <p>4.3. Flight crew incapacitation. Instructions on the succession of command in the event of flight crew incapacitation.</p> <p>4.4. Operation of more than one type. A statement indicating which aeroplanes are considered as one type for the purpose of:</p> <p>(a) Flight crew scheduling; and</p> <p>(b) Cabin crew scheduling.</p>	
<p>5. QUALIFICATION REQUIREMENTS</p> <p>5.1. A description of the required licence, rating(s), qualification/competency (e.g. for routes and aerodromes), experience, training, checking and recency for operations personnel to conduct their duties. Consideration must be given to the aeroplane type, kind of operation and composition of the crew.</p> <p>5.2. Flight crew</p> <p>(a) Commander.</p> <p>(b) Pilot relieving the commander.</p> <p>(c) Co-pilot.</p> <p>(d) Pilot under supervision.</p> <p>(e) System panel operator.</p> <p>(f) Operation on more than one type or variant.</p> <p>5.3. Cabin crew.</p> <p>(a) Senior cabin crew member.</p> <p>(b) Cabin crew member.</p> <p>(i) Required cabin crew member.</p> <p>(ii) Additional cabin crew member and cabin crew member during familiarisation flights.</p> <p>(c) Operation on more than one type or variant.</p> <p>5.4. Training, checking and supervision personnel.</p> <p>(a) For flight crew.</p> <p>(b) For cabin crew.</p> <p>5.5. Other operations personnel</p>	<p>AMC3-OR.OPS.MLR.100(1)</p>
<p>6. CREW HEALTH PRECAUTIONS</p> <p>6.1. Crew health precautions. The relevant regulations and guidance to crew members concerning health including:</p> <p>(a) Alcohol and other intoxicating liquor;</p> <p>(b) Narcotics;</p> <p>(c) Drugs;</p> <p>(d) Sleeping tablets;</p>	<p>AMC3-OR.OPS.MLR.100(1)</p>

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<ul style="list-style-type: none"> (e) Pharmaceutical preparations; (f) Immunisation; (g) Deep diving; (h) Blood donation; (i) Meal precautions prior to and during flight; (j) Sleep and rest; and (k) Surgical operations. 	
<p>7. FLIGHT TIME LIMITATIONS</p> <p>7.1. Flight and Duty Time Limitations and Rest Requirements. The scheme developed by the operator in accordance with applicable requirements.</p> <p>7.2. Exceedances of flight and duty time limitations and/or reductions of rest periods. Conditions under which flight and duty time may be exceeded or rest periods may be reduced and the procedures used to report these modifications.</p>	AMC3-OR.OPS.MLR.100(1)
<p>8. OPERATING PROCEDURES</p> <p>8.1. Flight Preparation Instructions. As applicable to the operation:</p> <p>8.1.1. Minimum Flight Altitudes. A description of the method of determination and application of minimum altitudes including:</p> <ul style="list-style-type: none"> (a) A procedure to establish the minimum altitudes/flight levels for VFR flights; and (b) A procedure to establish the minimum altitudes/flight levels for IFR flights. <p>8.1.2. Criteria and responsibilities for the authorisation of the use of aerodromes taking into account the applicable requirements of Subparts D, E, F, G, H, I and J.</p> <p>8.1.3. Methods for establishing of aerodrome operating minima. The method for establishing aerodrome operating minima for IFR flights in accordance with OPS 1 Subpart E. Reference must be made to procedures for the determination of the visibility and/or runway visual range and for the applicability of the actual visibility observed by the pilots, the reported visibility and the reported runway visual range.</p> <p>8.1.4. En-route Operating Minima for VFR Flights or VFR portions of a flight and, where single engine aeroplanes are used, instructions for route selection with respect to the availability of surfaces which permit a safe forced landing.</p> <p>8.1.5. Presentation and Application of Aerodrome and En-route Operating Minima</p> <p>8.1.6. Interpretation of meteorological information. Explanatory material on the decoding of MET forecasts and MET reports relevant to the area of operations, including the interpretation of conditional expressions.</p> <p>8.1.7. Determination of the quantities of fuel, oil and water/methanol carried. The methods by which the quantities of fuel, oil and water/methanol to be carried are determined and monitored in flight. This section must also include instructions on the measurement and distribution of the fluid carried on board. Such instructions must take account of all circumstances likely</p>	AMC3-OR.OPS.MLR.100(1)

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<p>to be encountered on the flight, including the possibility of in-flight re-planning and of failure of one or more of the aeroplane's power plants. The system for maintaining fuel and oil records must also be described.</p> <p>8.1.8. Mass and Centre of Gravity. The general principles of mass and centre of gravity including:</p> <ul style="list-style-type: none"> (a) Definitions; (b) Methods, procedures and responsibilities for preparation and acceptance of mass and centre of gravity calculations; (c) The policy for using either standard and/or actual masses; (d) The method for determining the applicable passenger, baggage and cargo mass; (e) The applicable passenger and baggage masses for various types of operations and aeroplane type; (f) General instruction and information necessary for verification of the various types of mass and balance documentation in use; (g) Last Minute Changes procedures; (h) Specific gravity of fuel, oil and water methanol; and (i) Seating policy/procedures. <p>8.1.9. ATIS Flight Plan. Procedures and responsibilities for the preparation and submission of the air traffic services flight plan. Factors to be considered include the means of submission for both individual and repetitive flight plans.</p> <p>8.1.10. Operational Flight Plan. Procedures and responsibilities for the preparation and acceptance of the operational flight plan. The use of the operational flight plan must be described including samples of the operational flight plan formats in use.</p> <p>8.1.11. Operator's Aeroplane Technical Log. The responsibilities and the use of the operator's Aeroplane Technical Log must be described, including samples of the format used.</p> <p>8.1.12. List of documents, forms and additional information to be carried.</p>	
<p>8.2. Ground Handling Instructions</p> <p>8.2.1. Fuelling procedures. A description of fuelling procedures, including:</p> <ul style="list-style-type: none"> (a) Safety precautions during refuelling and defuelling including when an APU is in operation or when a turbine engine is running and the prop-brakes are on; (b) Refuelling and defuelling when passengers are embarking, on board or disembarking; and (c) Precautions to be taken to avoid mixing fuels. <p>8.2.2. Aeroplane, passengers and cargo handling procedures related to safety. A description of the handling procedures to be used when allocating seats and embarking and disembarking passengers and when loading and unloading the aeroplane. Further procedures, aimed at achieving safety whilst the aeroplane is on the ramp, must also be given. Handling</p>	<p>AMC3-OR.OPS.MLR.100(1)</p>

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<p>procedures must include:</p> <ul style="list-style-type: none"> (a) Children/infants, sick passenger s a nd Persons wi th Reduced Mobility; (b) Transportation of i nadmissible passen gers, deport ees or persons in custody; (c) Permissible size and weight of hand baggage; (d) Loading and securing of items in the aeroplane; (e) Special loads and classification of load compartments; (f) Positioning of ground equipment; (g) Operation of aeroplane doors; (h) Safety on th e ramp, i ncluding fi re prevention, blast and suction areas; (i) Start-up, ramp departure and arrival procedures including push-back and towing operations; (j) Servicing of aeroplanes; and (k) Documents and forms for aeroplane handling; (l) Multiple occupancy of aeroplane seats. <p>8.2.3. Procedures for the refusal of embarkation. Procedures to ensure that persons who appear to be i ntoxicated or who demonstrate by manner or physi cal indications that they are under the influence of drugs, except medical patients under proper care, are refuse d embarkati on. Thi s doe s not a pply to me dical patients under proper care.</p> <p>8.2.4. De-icing and Anti-icing on the ground. A description of the de-icing and anti-icing policy and procedures for aeroplanes on the ground. These shall include descriptions of the types and effects of icing and other contaminants on aeroplanes whilst stationary, during ground movement s and duri ng take-off. In addi tion, a description of the fluid types used must be given including:</p> <ul style="list-style-type: none"> (a) Proprietary or commercial names; (b) Characteri stics; (c) Effects on aeroplane performance; (d) Hold-over times; and (e) Precautions during usage. 	
<p>8.3. Flight Procedures</p> <p>8.3.1. VFR/IFR Policy. A description of the policy for allowing flights to be made un der VFR, or of requi ring flights to be made under IFR, or of changing from one to the other.</p> <p>8.3.2. Navigation Procedures. A descri ption of all navi gation procedures r elevant to the type(s) a nd area(s) o f operati on. Consideration must be given to:</p> <ul style="list-style-type: none"> (a) Standard navi gational procedures i ncluding pol icy for carrying out i ndependent cross-ch ecks of ke yboard entries where these affec t the fli ght path to be foll owed by the aeroplane; (b) MNPS an d POLAR navi gation and navigation in other 	<p>AMC3-OR.OPS.MLR.100(1)</p>

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<p>designated areas;</p> <p>(c) RNAV;</p> <p>(d) In-flight re-planning; and</p> <p>(e) Procedures in the event of system degradation; and</p> <p>(f) RVSM</p> <p>8.3.3. Altimeter setting procedures including use, where appropriate, of metric altimetry and conversion tables, and QFE operating procedures.</p> <p>8.3.4. Altitude alerting system procedures</p> <p>8.3.5. Ground Proximity Warning System /Terrain Avoidance Warning System. Procedures and instructions required for the avoidance of controlled flight into terrain, including limitations on high rate of descent near the surface (the related training requirements are covered in D.2.1).</p> <p>8.3.6. Policy and procedures for the use of TCAS/ACAS</p> <p>8.3.7. Policy and procedures for in-flight fuel management</p> <p>8.3.8. Adverse and potentially hazardous atmospheric conditions. Procedures for operating in, and/or avoiding adverse and potentially hazardous atmospheric conditions including:</p> <p>(a) Thunderstorms;</p> <p>(b) icing conditions;</p> <p>(c) Turbulence;</p> <p>(d) Wind shear;</p> <p>(e) Jet stream;</p> <p>(f) Volcanic ash clouds;</p> <p>(g) Heavy precipitation;</p> <p>(h) Sand storms;</p> <p>(i) Mountain waves; and</p> <p>(j) Significant Temperature inversions.</p> <p>8.3.9. Wake Turbulence. Wake turbulence separation criteria, taking into account aeroplane types, wind conditions and runway location.</p> <p>8.3.10. Crew members at their stations. The requirements for crew members to occupy their assigned stations or seats during the different phases of flight or whenever deemed necessary in the interest of safety and also include procedures for controlled rest on the flight deck.</p> <p>8.3.11. Use of safety belts for crew and passengers. The requirements for crew members and passengers to use safety belts and/or harnesses during the different phases of flight or whenever deemed necessary in the interest of safety.</p> <p>8.3.12. Admission to Flight Deck. The conditions for the admission to the flight deck of persons other than the flight crew. The policy regarding the admission of Inspectors from the Authority must</p>	

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<p>also be included.</p> <p>8.3.13. Use of vacant crew seats. The conditions and procedures for the use of vacant crew seats.</p> <p>8.3.14. Incapacitation of crew members. Procedures to be followed in the event of incapacitation of crew members in flight. Examples of the types of incapacitation and the means for recognising them must be included.</p> <p>8.3.15. Cabin Safety Requirements. Procedures covering:</p> <ul style="list-style-type: none"> (a) Cabin preparation for flight, in-flight requirements and preparation for landing including procedures for securing cabin and galleys; (b) Procedures to ensure that passengers are seated where, in the event that an emergency evacuation is required, they may best assist and not hinder evacuation from the aeroplane; (c) Procedures to be followed during passenger embarkation and disembarkation; and (d) Procedures when refuelling/defuelling with passengers embarking, on board or disembarking. (e) Smoking on board. <p>8.3.16. Passenger briefing procedures. The contents, means and timing of passenger briefing in accordance with OPS 1.285.</p> <p>8.3.17. Procedures for aeroplanes operated whenever required cosmic or solar radiation detection equipment is carried. Procedures for the use of cosmic or solar radiation detection equipment and for recording its readings including actions to be taken in the event that limit values specified in the Operations Manual are exceeded. In addition, the procedures, including ATS procedures, to be followed in the event that a decision to descend or re-route is taken.</p> <p>8.3.18 Policy on the use of Autopilot and Auto throttle.</p>	
<p>8.4. All Weather Operations. A description of the operational procedures associated with All Weather operations (see also OPS Subpart D and E).</p> <p>8.5. ETOPS. A description of the ETOPS operational procedures.</p> <p>8.6. Use of the Minimum Equipment and Configuration Deviation List(s)</p> <p>8.7. Non revenue flights. Procedures and limitations for:</p> <ul style="list-style-type: none"> (a) Training flights; (b) Test flights; (c) Delivery flights; (d) Ferry flights; (e) Demonstration flights; and (f) Positioning flights, including the kind of persons who may be carried on such flights. <p>8.8. Oxygen Requirements</p> <p>8.8.1. An explanation of the conditions under which oxygen must be</p>	<p>AMC3-OR.OPS.MLR.100(1)</p>

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<p>provided and used.</p> <p>8.8.2. The oxygen requirements specified for:</p> <ul style="list-style-type: none"> (a) Flight crew; (b) Cabin crew; and (c) Passengers. 	
<p>9. DANGEROUS GOODS AND WEAPONS</p> <p>9.1. Information, instructions and general guidance on the transport of dangerous goods including:</p> <ul style="list-style-type: none"> (a) Operator's policy on the transport of dangerous goods; (b) Guidance on the requirements for acceptance, labelling, handling, stowage and segregation of dangerous goods; (c) Special notification requirements in the event of an accident or occurrence when dangerous goods are being carried; (d) Procedures for responding to emergency situations involving dangerous goods; (e) Duties of all personnel involved as per OPS 1.1215; and (f) Instructions on the carriage of the operator's employees. <p>9.2. The conditions under which weapons, munitions of war and sporting weapons may be carried.</p>	AMC3-OR.OPS.MLR.100(1)
<p>10. SECURITY</p> <p>10.1. Security instructions and guidance of a non-confidential nature which must include the authority and responsibilities of operations personnel. Policies and procedures for handling and reporting crime on board such as unlawful interference, sabotage, bomb threats, and hijacking must also be included.</p> <p>10.2. A description of preventative security measures and training.</p> <p>Note: Parts of the security instructions and guidance may be kept confidential.</p>	AMC3-OR.OPS.MLR.100(1)
<p>11. HANDLING, NOTIFYING AND REPORTING OCCURENCES</p> <p>Procedures for the handling, notifying and reporting occurrences. This section must include:</p> <ul style="list-style-type: none"> (a) Definitions occurrences and of the relevant responsibilities of all persons involved; (b) Illustrations of forms used for reporting all types of occurrences (or copies of the forms themselves), instructions on how they are to be completed, the addresses to which they should be sent and the time allowed for this to be done; (c) In the event of an accident, descriptions of which company departments, Authorities and other organisations that have to be notified, how this will be done and in what sequence; (d) Procedures for verbal notification to air traffic service units of incidents involving ACAS RAs, bird hazards and hazardous conditions; 	AMC3-OR.OPS.MLR.100(1)

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<p>(e) Procedures for submitting written reports on air traffic incidents, ACAS R As, bird strikes, dangerous goods incidents or accidents, and unlawful interference;</p> <p>(f) Reporting procedures to ensure compliance with OPS 1.085(b) and 1.420. These procedures must include internal safety related reporting procedures to be followed by crew members, designed to ensure that the commander is informed immediately of any incident that has endangered, or may have endangered, safety during flight and that he/she is provided with all relevant information.</p>	
<p>12. RULES OF THE AIR</p> <p>Rules of the Air including:</p> <p>(a) Visual and instrument flight rules;</p> <p>(b) Territorial application of the Rules of the Air;</p> <p>(c) Communication procedures including COM-failure procedures;</p> <p>(d) Information and instructions relating to the interception of civil aeroplanes;</p> <p>(e) The circumstances in which a radio listening watch is to be maintained;</p> <p>(f) Signals;</p> <p>(g) Time system used in operation;</p> <p>(h) ATC clearances, adherence to flight plan and position reports;</p> <p>(i) Visual signals used to warn an unauthorised aeroplane flying in or about to enter a restricted, prohibited or danger area;</p> <p>(j) Procedures for pilots observing an accident or receiving a distress transmission;</p> <p>(k) The ground/air visual codes for use by survivors, description and use of signal aids; and</p> <p>(l) Distress and urgency signals.</p>	AMC3-OR.OPS.MLR.100(1)
<p>13. LEASING</p> <p>A description of the operational arrangements for leasing, associated procedures and management responsibilities.</p>	AMC3-OR.OPS.MLR.100(1)
<p>B. AEROPLANE OPERATING MATTERS – TYPE RELATED</p> <p>Taking account of the differences between types, and variants of types, under the following headings:</p> <p>0. GENERAL INFORMATION AND UNITS OF MEASUREMENT</p> <p>0.1. General Information (e.g. aeroplane dimensions), including a description of the units of measurement used for the operation of the aeroplane type concerned and conversion tables.</p> <p>1. LIMITATIONS</p> <p>1.1. A description of the certified limitations and the applicable operational limitations including:</p>	AMC3-OR.OPS.MLR.100(1)

Rule comparison tables EU-OPS, JAR-OPS 3

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<ul style="list-style-type: none"> (a) Certification status (e.g. CS-23, CS-25, ICAO Annex 16 (CS-36 and CS-34), etc.); (b) Passenger seating configuration for each aeroplane type including a pictorial presentation; (c) Types of operation that are approved (e.g. VFR/IFR, CAT II/III, RNP Type, flight in known icing conditions etc); (d) Crew composition; (e) Mass and centre of gravity; (f) Speed limitations; (g) Flight envelope(s); (h) Wind limits including operations on contaminated runways; (i) Performance limitations for applicable configurations; (j) Runway slope; (k) Limitations on wet or contaminated runways; (l) Airframe contamination; and (m) System limitations. 	
<p>2. NORMAL PROCEDURES</p> <p>2.1. The normal procedures and duties assigned to the crew, the appropriate check-lists, the system for use of the check-lists and a statement covering the necessary coordination procedures between flight and cabin crew. The following normal procedures and duties must be included:</p> <ul style="list-style-type: none"> (a) Pre-flight; (b) Pre-departure; (c) Altimeter setting and checking; (d) Taxi, Take-Off and Climb; (e) Noise abatement; (f) Cruise and descent; (g) Approach, Landing preparation and briefing; (h) VFR Approach; (i) Instrument approach; (j) Visual Approach and circling; (k) Missed Approach; (l) Normal Landing; (m) Post Landing; and (n) Operation on wet and contaminated runways. 	AMC3-OR.OPS.MLR.100(1)
<p>3. ABNORMAL AND EMERGENCY PROCEDURES</p> <p>3.1. The abnormal and emergency procedures and duties assigned to the crew, the appropriate check-lists, the system for use of the check-lists and a statement covering the necessary coordination procedures between flight and cabin crew. The following abnormal and emergency procedures and duties must</p>	AMC3-OR.OPS.MLR.100(1)

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<p>be included:</p> <ul style="list-style-type: none"> (a) Crew Incapacitation; (b) Fire and Smoke Drills; (c) Unpressurised and partially pressurised flight; (d) Exceeding structural limits such as overweight landing; (e) Exceeding cosmic radiation limits; (f) Lightning Strikes; (g) Distress Communications and alerting AT C to Emergencies; (h) Engine failure; (i) System failures; (j) Guidance for Diversion in case of Serious Technical Failure; (k) Ground Proximity Warning; (l) TCAS Warning; (m) Wind shear; and (n) Emergency Landing/Ditching; and (o) Departure contingency procedures. 	
<p>4. PERFORMANCE</p> <p>4.0. Performance data must be provided in a form in which it can be used without difficulty.</p> <p>4.1. Performance data. Performance material which provides the necessary data for compliance with the performance requirements prescribed in OPS 1 Subparts F, G, H and I must be included to allow the determination of:</p> <ul style="list-style-type: none"> (a) Take-off climb limits – Mass, Altitude, Temperature; (b) Take-off field length (dry, wet, contaminated); (c) Net flight path data for obstacle clearance calculation or, where applicable, take-off flight path; (d) The gradient losses for banked climb outs; (e) En-route climb limits; (f) Approach climb limits; (g) Landing climb limits; (h) Landing field length (dry, wet, contaminated) including the effects of an in-flight failure of a system or device, if it affects the landing distance; (i) Brake energy limits; and (j) Speeds applicable for the various flight stages (also considering wet or contaminated runways). 	AMC3-OR.OPS.MLR.100(1)
<p>4.1.1. Supplementary data covering flights in icing conditions. Any certificated performance related to a non allowable configuration, or configuration deviation, such as an anti-skid inoperative, must be included.</p>	AMC3-OR.OPS.MLR.100(1)

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<p>4.1.2. If performance Data, as required for the appropriate performance class, is not available in the approved AFM, then other data acceptable to the Authority must be included. Alternatively, the Operations Manual may contain cross-reference to the approved Data contained in the AFM where such Data is not likely to be used often or in an emergency.</p> <p>4.2. Additional Performance Data. Additional performance data where applicable including:</p> <ul style="list-style-type: none"> (a) All engine climb gradients; (b) Drift-down data; (c) Effect of de-icing/anti-icing fluids; (d) Flight with landing gear down; (e) For aeroplanes with 3 or more engines, one engine inoperative ferry flights; and (f) Flights conducted under the provisions of the CDL. 	
<p>5. FLIGHT PLANNING</p> <p>5.1. Data and instructions necessary for pre-flight and in-flight planning including factors such as speed schedules and power settings. Where applicable, procedures for engine(s)-out operations, ETOPS (particularly the one-engine-inoperative cruise speed and maximum distance to an adequate aerodrome determined in accordance with OPS 1.245) and flights to isolated aerodromes must be included.</p> <p>5.2. The method for calculating fuel needed for the various stages of flight, in accordance with OPS 1.255.</p> <p>5.3. Performance Data for ETOPS Critical Fuel Reserve and Area of Operation including sufficient data to support the critical fuel reserve and area of operation calculation based on Approved Aeroplane Performance Data. The following data is required:</p> <ul style="list-style-type: none"> (a) Detailed engine(s) inoperative performance data including fuel flow for standard and non-standard atmospheric conditions and as a function of airspeed and power setting, where appropriate, covering: <ul style="list-style-type: none"> (i) Drift down (includes net performance) see OPS 1.505 where applicable; (ii) Cruise altitude coverage including 10 000 feet; (iii) Holding; (iv) Altitude capability (includes net performance); and (v) Missed approach. (b) Detailed all-engine-operating performance data, including nominal fuel flow data, for standard and non-standard atmospheric conditions and as a function of airspeed and power setting, where appropriate, covering: <ul style="list-style-type: none"> (i) Cruise (altitude coverage including 10 000 feet); and (ii) Holding. (c) Details of any other conditions relevant to ETOPS operations which can cause significant deterioration of performance, such as ice accumulation on the 	<p>AMC3-OR.OPS.MLR.100(1)</p>

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<p>unprotected surfaces of the aeroplane, Ram Air Turbine (RAT) deployment, thrust-reverser deployment, etc.</p> <p>The altitudes, airspeeds, thrust settings, and fuel flow used in establishing the ETOPS area of operations for each airframe-engine combination must be used in showing the corresponding terrain and obstruction clearances in accordance with this regulation.</p>	
<p>6. MASS AND BALANCE</p> <p>Instructions and data for the calculation of the mass and balance including:</p> <ul style="list-style-type: none"> (a) Calculation system (e.g. Index system); (b) Information and instructions for completion of mass and balance documentation, including manual and computer generated types; (c) Limiting masses and centre of gravity for the types, variants or individual aeroplanes used by the operator; and (d) Dry Operating mass and corresponding centre of gravity or index. 	AMC3-OR.OPS.MLR.100(1)
<p>7. LOADING</p> <p>Procedures and provisions for loading and securing the load in the aeroplane.</p> <p>8. CONFIGURATION DEVIATION LIST</p> <p>The Configuration Deviation List(s) (CDL), if provided by the manufacturer, taking account of the aeroplane types and variants operated including procedures to be followed when an aeroplane is being despatched under the terms of its CDL</p> <p>9. MINIMUM EQUIPMENT LIST</p> <p>The Minimum Equipment List (MEL) taking account of the aeroplane types and variants operated and the type(s)/area(s) of operation. The MEL must include the navigational equipment and take into account the required performance for the route and area of operation.</p> <p>10. SURVIVAL AND EMERGENCY EQUIPMENT INCLUDING OXYGEN</p> <p>10.1. A list of the survival equipment to be carried for the routes to be flown and the procedures for checking the serviceability of this equipment prior to take-off. Instructions regarding the location, accessibility and use of survival and emergency equipment and its associated check list(s) must also be included.</p> <p>10.2. The procedure for determining the amount of oxygen required and the quantity that is available. The flight profile, number of occupants and possible cabin decompression must be considered. The information provided must be in a form in which it can be used without difficulty.</p>	AMC3-OR.OPS.MLR.100(1)
<p>11. EMERGENCY EVACUATION PROCEDURES</p> <p>11.1. Instructions for preparation for emergency evacuation including crew co-ordination and emergency station assignment.</p> <p>11.2. Emergency evacuation procedures. A description of the duties of all members of the crew for the rapid evacuation of an aeroplane and the handling of the passengers in the event of a</p>	AMC3-OR.OPS.MLR.100(1)

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<p>forced landing, ditching or other emergency.</p> <p>12. AER OPLANE SYSTEMS</p> <p>A description of the aeroplane systems, related controls and indications and operating instructions.</p>	
<p>C. ROUTE AND AERODROME INSTRUCTIONS AND INFORMATION</p> <p>1. Instructions and information relating to communications, navigation and aerodromes including minimum flight levels and altitudes for each route to be flown and operating minima for each aerodrome planned to be used, including:</p> <ul style="list-style-type: none"> (a) Minimum flight level/altitude; (b) Operating minima for departure, destination and alternate aerodromes; (c) Communication facilities and navigation aids; (d) Runway data and aerodrome facilities; (e) Approach, missed approach and departure procedures including noise abatement procedures; (f) COM-failure procedures; (g) Search and rescue facilities in the area over which the aeroplane is to be flown; (h) A description of the aeronautical charts that must be carried on board in relation to the type of flight and the route to be flown, including the method to check their validity; (i) Availability of aeronautical information and MET services; (j) En-route COM/NAV procedures; (k) Aerodrome categorisation for flight crew competence qualification (l) Special aerodrome limitations (performance limitations and operating procedures). 	<p>AMC3-OR.OPS.MLR.100(1)</p>
<p>D. TRAINING</p> <p>1. Training syllabi and checking programmes for all operations personnel assigned to operational duties in connection with the preparation and/or conduct of a flight.</p> <p>2. Training syllabi and checking programmes must include:</p> <ul style="list-style-type: none"> 2.1. For flight crew. All relevant items prescribed in Subpart E and N; 2.2. For cabin crew. All relevant items prescribed in Subpart O; 2.3. For operations personnel concerned, including crew members: <ul style="list-style-type: none"> (a) All relevant items prescribed in Subpart R (Transport of Dangerous Goods by Air); and (b) All relevant items prescribed in Subpart S (Security). 2.4. For operations personnel other than crew members (e.g. dispatcher, handling personnel, etc.). All other relevant items prescribed in OPS pertaining to their duties. <p>3. Procedures</p>	<p>AMC3-OR.OPS.MLR.100(1)</p>

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3.1. Procedures for training and checking. 3.2. Procedures to be applied in the event that personnel do not achieve or maintain the required standards. 3.3. Procedures to ensure that abnormal or emergency situations requiring the application of part or all of abnormal or emergency procedures and simulation of IMC by artificial means are not simulated during commercial air transportation flights. 4. Description of documentation to be stored and storage periods (see Appendix 1 to OPS 1.1065).													
Appendix 1 to OPS 1.1065 Document storage periods													
<p>An operator shall ensure that the following information/documentation is stored in an acceptable form, accessible to the Authority, for the periods shown in the Tables below.</p> <p>Note: Additional information relating to maintenance records is prescribed in Part-M, paragraph M.A.306(c) Operator's technical log system.</p> <p style="text-align: center;">Table 1 Information used for the preparation and execution of a flight</p> <table border="1" data-bbox="309 949 1082 1619"> <thead> <tr> <th colspan="2" data-bbox="309 949 1082 1039">Information used for the preparation and execution of the flight as described in OPS 1.135</th> </tr> </thead> <tbody> <tr> <td data-bbox="309 1039 734 1106">Operational flight plan</td> <td data-bbox="734 1039 1082 1106">3 months</td> </tr> <tr> <td data-bbox="309 1106 734 1256">Aeroplane Technical log</td> <td data-bbox="734 1106 1082 1256">36 months after the date of the last entry, in accordance with Part M M.A.306(c)</td> </tr> <tr> <td data-bbox="309 1256 734 1375">Route specific NOTAM/AIS briefing documentation if edited by the operator</td> <td data-bbox="734 1256 1082 1375">3 month</td> </tr> <tr> <td data-bbox="309 1375 734 1464">Mass and balance documentation</td> <td data-bbox="734 1375 1082 1464">3 month</td> </tr> <tr> <td data-bbox="309 1464 734 1619">Notification of special loads including written information to the commander about dangerous goods</td> <td data-bbox="734 1464 1082 1619">3 months</td> </tr> </tbody> </table>	Information used for the preparation and execution of the flight as described in OPS 1.135		Operational flight plan	3 months	Aeroplane Technical log	36 months after the date of the last entry, in accordance with Part M M.A.306(c)	Route specific NOTAM/AIS briefing documentation if edited by the operator	3 month	Mass and balance documentation	3 month	Notification of special loads including written information to the commander about dangerous goods	3 months	OR.OPS.MLR.115(b)
Information used for the preparation and execution of the flight as described in OPS 1.135													
Operational flight plan	3 months												
Aeroplane Technical log	36 months after the date of the last entry, in accordance with Part M M.A.306(c)												
Route specific NOTAM/AIS briefing documentation if edited by the operator	3 month												
Mass and balance documentation	3 month												
Notification of special loads including written information to the commander about dangerous goods	3 months												
<p style="text-align: center;">Table 2 Reports</p> <table border="1" data-bbox="320 1711 1070 2018"> <thead> <tr> <th colspan="2" data-bbox="320 1711 1070 1778">Reports</th> </tr> </thead> <tbody> <tr> <td data-bbox="320 1778 850 1845">Journey log</td> <td data-bbox="850 1778 1070 1845">3 months</td> </tr> <tr> <td data-bbox="320 1845 850 2018">Flight report(s) for recording details of any occurrence, as prescribed in OPS 1.420, or any event which the commander deems necessary to report/record</td> <td data-bbox="850 1845 1070 2018">3 months</td> </tr> </tbody> </table>	Reports		Journey log	3 months	Flight report(s) for recording details of any occurrence, as prescribed in OPS 1.420, or any event which the commander deems necessary to report/record	3 months	OR.OPS.MLR.115(b)						
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Rule comparison tables EU-OPS, JAR-OPS 3

EU-OPS Subpart P - Rule Text			CRD Rule Reference																						
Reports on exceedances of duty and/or reducing rest periods	3 months																								
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EU-OPS Subpart P - Rule Text			CRD Rule Reference										
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EU-OPSSUBPART S**SECURITY**

EU-OPS Subpart S - Rule Text	CRD Rule Reference
OPS 1.1235 Security requirements	
An operator shall ensure that all appropriate personnel are familiar, and comply, with the relevant requirements of the national security programmes of the State of the operator.	This rule will be addressed by the Commission at a later stage
OPS 1.1240 Training programmes	
An operator shall establish, maintain and conduct approved training programs which enable the operator's crew members to take appropriate action to prevent acts of unlawful interference such as sabotage or unlawful seizure of aeroplanes and to minimize the consequences of such events should they occur. The training programme shall be compatible with the National Aviation Security programme. Individual crew member shall have knowledge and competence of all relevant elements of the training programme.	This rule will be addressed by the Commission at a later stage
OPS 1.1245 Reporting acts of unlawful interference	
Following an act of unlawful interference on board an aeroplane the commander or, in his/her absence the operator, shall submit, without delay, a report of such an act to the designated local authority and the Authority in the State of the operator.	CAT.GEN.100
OPS1.1250 Aeroplane search procedure checklist	
An operator shall ensure that there is on board a checklist of the procedures to be followed in search of a bomb or Improvised Explosive Device (IED) in case of suspected sabotage and for inspecting aeroplanes for concealed weapons, explosives or other dangerous devices where a well founded suspicion exists that the aeroplane may be the object of an act of unlawful interference. The checklist shall be supported by guidance on the appropriate course of action to be taken should a bomb or suspicious object be found and information on the least-risk bomb location specific to the aeroplane where provided by the Type Certificate holder.	This rule will be addressed by the Commission at a later stage
OPS 1.1255 Flight crew compartment security	
(a) In all aeroplanes which are equipped with a flight crew compartment door, this door shall be capable of being locked, and means or procedures acceptable to the Authority shall be provided or established by which the cabin crew can notify the flight crew in the event of suspicious activity or security breaches in the cabin.	OR.OPS.SEC.100.A(a)
(b) All passenger-carrying aeroplanes of a maximum certificated take-off mass in excess of 45 500 kg or with a Maximum Approved Passenger Seating Configuration greater than 60 shall be equipped with an approved flight crew compartment door that is capable of being locked and	OR.OPS.SEC.100.A(b)

EU-OPS Subpart S - Rule Text	CRD Rule Reference
<p>unlocked from each pilot's station and designed to meet the applicable retroactive airworthiness operational requirements. The design of this door shall not hinder emergency operations, as required in applicable retroactive airworthiness operational requirements.</p>	
<p>(c) In all aeroplanes which are equipped with a flight crew compartment door in accordance with subparagraph (b):</p> <p>(1) This door shall be closed prior to engine start for take-off and will be locked when required by security procedure or the Commander, until engine shut down after landing, except when deemed necessary for authorised persons to access or egress in compliance with National Aviation Security Programme;</p> <p>(2) means shall be provided for monitoring from either pilot's station the area outside the flight crew compartment to the extent necessary to identify persons requesting entry to the flight crew compartment and to detect suspicious behaviour or potential threat.</p>	<p>OR.OPS.SEC.100.A(c)</p>

JAR-OPS 3 SUBPART C

OPERATOR CERTIFICATION AND SUPERVISION

JAR-OPS Subpart C - Rule Text	EASA Rule Reference
JAR-OPS 3.175 General rules for Air Operator Certification and Supervision	
Note 1: Appendix 1 to this paragraph specifies the contents and conditions of the AOC.	N/A
Note 2: Appendix 2 to this paragraph specifies the management and organisation requirements.	N/A
(a) An operator shall not operate a helicopter for the purpose of commercial air transport other than under, and in accordance with, the terms and conditions of an Air Operator Certificate (AOC).	OR.OPS.AOC.100(a)
(b) An applicant for an AOC, or variation of an AOC, shall allow the Authority to examine all safety aspects of the proposed operation	OR.GEN.115(b) OR.GEN.140
(c) An applicant for an AOC must:	
(1) Not hold an AOC issued by another Authority unless specifically approved by the Authorities concerned;	N/A
(2) Have his principal place of business and, if any, his registered office located in the State responsible for issuing the AOC (see IEM OPS 3.175(c)(2));	OR.GEN.105
(3) Have registered the helicopters which are to be operated under the AOC in the State responsible for issuing the AOC; and	N/A
(4) Satisfy the Authority that he is able to conduct safe operations.	OR.GEN.115(b)
(d) Notwithstanding sub-paragraph (c)(3) above, an operator may operate, with the mutual agreement of the Authority issuing the AOC and another Authority, helicopters registered on the national register of the second-named Authority.	N/A
(e) An operator shall grant the Authority access to his organisation and helicopters and shall ensure that, with respect to maintenance, access is granted to any associated JAR-145 maintenance organisation, to determine continued compliance with JAR-OPS.	OR.GEN.140
(f) An AOC will be varied, suspended or revoked if the Authority is no longer satisfied that the operator can maintain safe operations.	OR.GEN.135(a) and AR.GEN.350
(g) The operator must satisfy the Authority that:	OR.OPS.AOC.100(c)(3)
(1) Its organisation and management are suitable and properly matched to the scale and scope of the operation; and	OR.GEN.200(b)
(2) Procedures for the supervision of operations have been	OR.OPS.GEN.100(c)

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS Subpart C - Rule Text	EASA Rule Reference
defined.	
(h) The operator must have nominated an accountable manager acceptable to the Authority who has corporate authority for ensuring that all operations and maintenance activities can be financed and carried out to the standard required by the Authority.	OR.GEN.210(a)
(i) The operator must have nominated post holders, acceptable to the Authority, who are responsible for the management and supervision of the following areas, (1) Flight operations; (2) The maintenance system; (3) Crew training; and (4) Ground operations. (see ACJ OPS 3.175(i)).	OR.OPS.AOC.135(a) (2) is covered in Regulation 2042/2003
(j) A person may hold more than one of the nominated positions if acceptable to the Authority but, for operators who employ 21 or more full time staff, a minimum of two persons are required to cover the four areas of responsibility. (See ACJ OPS 3.175(j) &(k).)	AMC1- OR.OPS.AOC.135(1) No limit of 21 required
(k) For operators who employ 20 or less full time staff, one or more of the nominated posts may be filled by the accountable manager if acceptable to the Authority. (See ACJ OPS 3.175(j) &(k).)	AMC1- OR.OPS.AOC.135(1) No limit of 20 required
(l) The operator must ensure that every flight is conducted in accordance with the provisions of the Operations Manual.	OR.OPS.GEN.100(b)
(m) The operator must arrange appropriate ground handling facilities to ensure the safe handling of its flights.	OR.OPS.AOC.140(a)
(n) The operator must ensure that its helicopters are equipped and its crews are qualified, as required for the area and type of operation.	OR.OPS.GEN.100(d)
(o) The operator must comply with the maintenance requirements, in accordance with [Part-M], for all helicopters operated under the terms of its AOC.	Regulation (EC) No 2042/2003
(p) The operator must provide the Authority with a copy of the Operations Manual, as specified in Subpart P and all amendments or revisions to it.	OR.OPS.MLR.100(g)(1) - aments and revisions OR.OPS.AOC.100(b)(6)
(q) The operator must maintain operational support facilities at the main operating base, appropriate for the area and type of operation.	OR.OPS.AOC.140(b)
JAR-OPS 3.180 Issue, variation and continued validity of an AOC	
(a) An operator will not be granted an AOC, or a variation to an AOC, and that AOC will not remain valid unless:	
(1) Helicopters operated have a standard Certificate of	OR.OPS.AOC.100(c)(2)

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS Subpart C - Rule Text	EASA Rule Reference
Airworthiness issued in accordance with ICAO Annex 8 by a JAA Member State. Standard Certificates of Airworthiness issued by a JAA Member State other than the State responsible for issuing the AOC, will be accepted without further showing when issued in accordance with JAR-21;	
(2) The maintenance system has been approved by the Authority in accordance with [Part-M]; and	Regulation (EC) No 2042/2003 M.A.201(h)
(3) He has satisfied the Authority that he has the ability to:	
(i) Establish and maintain an adequate organisation;	OR.GEN.200
(ii) Establish and maintain a quality system in accordance with JAR-OPS 3.035;	OR.GEN.200(a)(6)
(iii) Comply with required training programmes;	OR.GEN.200(a)(4)
(iv) Comply with maintenance requirements, consistent with the nature and extent of the operations specified, including the relevant items prescribed in JAR-OPS 3.175(g) to (o); and	Regulation (EC) No 2042/2003 Annex I Part-M
(v) Comply with JAR-OPS 3.175.	OR.GEN.135 OR.OPS.AOC.100(c)(2)
(b) Notwithstanding the provisions of JAR-OPS 3.185(f), the operator must notify the Authority as soon as practicable of any changes to the information submitted in accordance with sub-paragraph JAR-OPS 3.185(a) below.	OR.GEN.130
(c) If the Authority is not satisfied that the requirements of sub-paragraph (a) above have been met, the Authority may require the conduct of one or more demonstration flights, operated as if they were commercial air transport flights.	AMC1-AR.OPS.100 and AMC2-AR.OPS.300 point 3 for RVSM approval
JAR-OPS 3.185 Administrative requirements	
(a) An operator shall ensure that the following information is included in the initial application for an AOC and, when applicable, any variation or renewal applied for: (1) The official name and business name, address and mailing address of the applicant; (2) A description of the proposed operation; (3) A description of the management organisation; (4) The name of the accountable manager; (5) The names of major post holders, including those responsible for flight operations, the maintenance system, crew training and ground operations together with their qualifications and experience; and (6) The Operations Manual.	OR.OPS.AOC.100(b)
(b) In respect of the operator's maintenance system only, the following information must be included in the initial application for an AOC and, when applicable, any variation or renewal applied for, and for each	Regulation (EC) No 2042/2003 Annex I Part-M

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS Subpart C - Rule Text	EASA Rule Reference
<p>helicopter type to be operated (see IEM OPS 3.185(b)):</p> <p>(1) The maintenance management exposition;</p> <p>(2) The operator's helicopter maintenance programme(s);</p> <p>(3) The helicopter technical log;</p> <p>(4) Where appropriate, the technical specification(s) of the maintenance contract(s) between the operator and any JAR-145 approved maintenance organisation;</p> <p>(5) The number of helicopters;</p>	
(c) The application for an initial issue of an AOC must be submitted at least 90 days before the date of intended operation except that the Operations Manual may be submitted later but not less than 60 days before the date of intended operation.	AMC1-OR.OPS.AOC.100
(d) The application for the variation of an AOC must be submitted at least 30 days, or as otherwise agreed, before the date of intended operation.	AMC1-OR.GEN.130
(e) The application for the renewal of an AOC must be submitted at least 30 days, or as otherwise agreed, before the end of the existing period of validity.	N/A (unlimited validity)
(f) Other than in exceptional circumstances, the Authority must be given at least 10 days prior notice of a proposed change of a nominated post holder.	AMC1-OR.GEN.130
JAR-OPS 3.190 Intentionally blank	
Appendix 1 to JAR-OPS 3.175 Contents and conditions of the Air Operator Certificate	Air Operator Certificate Appendix IV to Annex 1 Part -AR - EASA Form 138
An AOC specifies the:	
(a) Name and location (main place of business) of the operator;	Air Operator Certificate Appendix IV to Annex 1 Part -AR - EASA Form 138
(b) Date of issue and period of validity;	
(c) Description of the type of operations authorised;	
(d) Type(s) of helicopter(s) authorised for use;	Operations Specifications - Appendix V to Annex 1 Part-AR EASA Form 139
(e) Registration markings of the authorised helicopter(s) except that operators may obtain approval for a system to inform the Authority about the registration markings for helicopters operated under its AOC;	
(f) Authorised areas of operation;	
(g) Special limitations (e.g. VFR only); and	
(h) Special authorisations/approvals e.g. ; CAT II/CAT III (including approved minima)	Covered by the Operations Specifications -

JAR-OPS Subpart C - Rule Text	EASA Rule Reference
<p>Offshore Operations</p> <p>HEMS (See Appendix 1 to JAR-OPS 3.005(d))</p> <p>Transportation of Dangerous Goods (See JAR-OPS 3.1155)</p> <p>Helicopter operations over a hostile environment located outside a congested area (See Appendix 1 to JAR-OPS 3.005(e)).</p> <p>Operations for small helicopters (VFR Day only) (See Appendix 1 to JAR-OPS 3.005(f)).</p> <p>Local Area Operations (VFR Day only)</p> <p>(See Appendix 1 to JAR-OPS 3.005(g))</p> <p>Helicopter Hoist Operations (See Appendix 1 to JAR-OPS 3.005(h))</p> <p>Operations to Public Interest Sites (See Appendix 1 to JAR-OPS 3.005(i))</p> <p>Helicopter operations with an exposure time to a power unit failure during take-off or landing. (See JAR-OPS 3.517 and JAR-OPS 3.540(a)(4).)</p>	Appendix V to Annex 1 Part-AR EASA Form 139
Appendix 2 to JAR-OPS 3.175 The management and organisation of an AOC holder	
(a) General [] An operator must have a sound and effective management structure in order to ensure the safe conduct of air operations. Nominated post holders must have [managerial] competency [together with appropriate technical/operational qualifications (see also ACJ OPS 3.175 (i))] in [] aviation.	AMC3-OR.OPS.AOC.135(a)
(b) Nominated post holders	
(1) A description of the functions and the responsibilities of the nominated post holders, including their names, must be contained in the Operations Manual and the Authority must be given notice in writing of any intended or actual change in appointments or functions.	AMC1-OR.OPS.AOC.135(a)(2) AMC1-AR.GEN.330 Changes - organisations
(2) The operator must make arrangements to ensure continuity of supervision in the absence of nominated post holders.	AMC1-OR.OPS.AOC.135(a)(3)
([3]) A person nominated as a post holder by the holder of an AOC must not be nominated as a post holder by the holder of any other AOC, unless acceptable to the [Authorities concerned].	AMC1-OR.OPS.AOC.135(a)(4)
[(4) Persons nominated as post holders must be contracted to work sufficient hours to fulfil the management functions associated with the scale and scope of the operation.]	AMC1-OR.OPS.AOC.135(a)(5)
(c) Adequacy and supervision of staff	
(1) Crew members. The operator must employ sufficient flight and cabin crew for the planned operation, trained and checked in accordance with Subpart N and Subpart O as appropriate.	OR.OPS.AOC.135(b)

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS Subpart C - Rule Text	EASA Rule Reference
(2) Ground Staff	
(i) The number of ground staff is dependent upon the nature and the scale of operations. Operations and ground handling departments, in particular, must be staffed by trained personnel who have a thorough understanding of their responsibilities within the organisation.	OR.OPS.AOC.135(b)
(ii) An operator contracting other organisations to provide certain services, retains responsibility for the maintenance of proper standards. In such circumstances, a nominated post holder must be given the task of ensuring that any contractor employed meets the required standards.	OR.OPS.AOC.135(c) OR.GEN.205(a) OR.GEN.210(b)
(3) Supervision	
(i) The number of supervisors to be appointed is dependent upon the structure of the operator and the number of staff employed.	OR.OPS.AOC.135(c)(1)
([ii]) The duties and responsibilities of these supervisors must be defined, and any [other] commitments arranged so that they can discharge their supervisory responsibilities.	OR.GEN.205(a) OR.GEN.210(b)
([iii]) The supervision of [] crew members [and ground staff] must be exercised by individuals possessing experience and personal qualities sufficient to ensure the attainment of the standards specified in the operations manual.	OR.OPS.AOC.135(c)(3)
(d) Accommodation facilities (1) An operator must ensure that working space available at each operating base is sufficient for personnel pertaining to the safety of flight operations. Consideration must be given to the needs of ground staff, those concerned with operational control, the storage and display of essential records, and flight planning by crews.	OR.OPS.AOC.140(c)
(2) Office services must be capable, without delay, of distributing operational instructions and other information to all concerned.	OR.OPS.AOC.150(b)
(e) Documentation. The operator must make arrangements for the production of manuals, amendments and other documentation.	OR.OPS.AOC.150(a)

JAR-OPS 3 SUBPART N**FLIGHT CREW**

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
<p>Note 1: JAR-FCL is referred to in this Subpart. Where this is the case, it should be noted that, until JAR-FCL has been implemented, the equivalent national aviation regulations will apply.</p> <p>Note 2: Whenever the use of flight simulator or Synthetic Training Device is required by this Subpart, it shall be approved in accordance with the requirements of JAR-STD.</p>	
<p>JAR-OPS 3.940 Composition of Flight Crew</p>	
<p>(a) An operator shall ensure that:</p> <ol style="list-style-type: none"> (1) The composition of the flight crew and the number of flight crew members at designated crew stations are both in compliance with, and no less than the minimum specified in, the Helicopter Flight Manual; (2) The flight crew includes additional flight crew members when required by the type of operation, and is not reduced below the number specified in the Operations Manual; (3) All flight crew members hold an applicable and valid licence acceptable to the Authority and are suitably qualified and competent to conduct the duties assigned to them; (4) Procedures are established, acceptable to the Authority, to prevent the crewing together of inexperienced flight crew members; (See AMC OPS 3.940(a)(4)); and (5) One pilot amongst the flight crew is designated as the commander who may delegate the conduct of the flight to another suitably qualified pilot. [(6) When engaging the services of flight crew members who are self-employed and/or working on a freelance or part-time basis, the requirements of Subpart N are complied with. (7) For crew members serving the operator as a commander, initial operator's Crew Resource Management (CRM) training shall be completed before commencing unsupervised line flying.] 	<p>OR.OPS.FC.100(a)</p> <p>OR.OPS.FC.100(b)</p> <p>OR.OPS.FC.100(c), ER 8.a.2</p> <p>OR.OPS.FC.200(a) AMC 1-OR.OPS.FC.200(a)</p> <p>OR.OPS.FC.105(a) OR.OPS.FC.200(b)</p> <p>OR.OPS.FC.100(e)</p> <p>OR.OPS.FC.215(a) AMC1-OR.OPS.FC.115 & .215, paragraph 2.d.</p>
<p>(b) <i>Pilots.</i> An operator shall ensure that:</p> <ol style="list-style-type: none"> (1) Commanders and co-pilots on an IFR flight hold a valid instrument rating, except that the holder of a pilot licence may fly in VMC at night, provided he is appropriately qualified for the circumstances, airspace and flight conditions in which the flight is conducted. This qualification requirement must be entered in the Operations Manual and be acceptable to the Authority. (See IEM to JAR-OPS 3.940(b)(1)). (2) For IFR operations using helicopters with a maximum approved passenger seating configuration (MAPSC) of more 	<p>Not transposed; redundant with Part-FCL and OR.OPS.FC.100(c)</p> <p>OR.OPS.FC.200(d)(1)</p>

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
<p>than 9:</p> <ul style="list-style-type: none"> (i) The minimum flight crew is two qualified pilots; and (ii) The commander holds a valid Airline Transport Pilot's Licence (Helicopter) (ATPL(H)); <p>(3) For operations using helicopters with a maximum approved passenger seating configuration (MAPSC) of more than 19:</p> <ul style="list-style-type: none"> (i) The minimum flight crew is two qualified pilots; (ii) The commander holds a valid Airline Transport Pilot's Licence (Helicopter) (ATPL(H)). 	OR.OPS.FC.200(d)(1)
<p>(c) Helicopters not covered by sub-paragraph (b)(2) and (b)(3) above may be operated by a single pilot provided that the requirements of Appendix 1 to JAR-OPS 3.940(c) are satisfied.</p>	OR.OPS.FC.200(d)(2)
<p>[JAR-OPS 3.943 Initial Operator's Crew Resource Management (CRM) training (See ACJ No. 1 to JAR-OPS 3.943)(See ACJ No. 2 to JAR-OPS 3.943)</p>	
<p>(a) When a flight crew member has not previously completed initial Operator's Crew Resource Management (CRM) training (either new employees or existing staff), then the operator shall ensure that the flight crew member completes an initial CRM training course. New employees shall complete initial Operator's CRM Training within their first year of joining an operator.</p>	Transition provision – not transposed
<p>(b) Initial CRM training shall be conducted by suitably qualified personnel (See ACJ-1 OPS 3.943).</p>	OR.OPS.FC.215(b)
<p>(c) Initial CRM training is conducted in accordance with a detailed course syllabus included in the Operations Manual, and shall contain at least the following items:]</p> <ul style="list-style-type: none"> [(1) Human error and reliability, error chain, error prevention and detection; (2) Company safety culture, Standard Operating Procedures (SOPs), organisational factors; (3) Stress, stress management, fatigue and vigilance; (4) Information acquisition and processing, situation awareness, workload management; (5) Decision making; (6) Communication and co-ordination inside and outside the cockpit; (7) Leadership and team behaviour, synergy; (8) Automation and philosophy of the use of Automation (if relevant to the type); (9) Specific type-related differences; (10) Case based studies; (11) Additional areas which warrant extra attention, as identified by the accident prevention and flight safety programme (see JAR-OPS 3.037).] 	OR.OPS.FC.145(a)(1) AMC1-OR.OPS.FC.115 & .215, paragraph 6.a.

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
<p>JAR-OPS 3.945 Conversion Training and checking (See AMC OPS 3.945)(See IEM OPS 3.945)[(See ACJ-No.1 to JAR-OPS 3.943)(See ACJ-No. 2 to JAR-OPS 3.943)]</p>	
<p>(a) An operator shall ensure that:</p> <p>(1) A flight crew member completes a Type Rating course which satisfies the applicable requirements of JAR-FCL when changing from one type of helicopter to another type for which a new type rating is required;</p> <p>(2) A flight crew member completes an operator's conversion course before commencing unsupervised line flying;</p> <p>(i) When changing to a helicopter for which a new type rating is required; or</p> <p>(ii) When changing operator;</p> <p>(3) Conversion training is conducted by suitably qualified person[ne] in accordance with a detailed course syllabus included in the Operations Manual [].</p>	<p>Redundant with Part-FCL and OR.OPS.FC.100(c) – not transposed</p> <p>OR.OPS.FC.120(a)(1)+(2)</p> <p>OR.OPS.FC.145(a)</p>
<p>(4) The amount of training required by the operator's conversion course is determined after due note has been taken of the flight crew member's previous training as recorded in his training records prescribed in JAR-OPS 3.985;</p> <p>(5) The minimum standards of qualification and experience required of flight crew members before undertaking conversion training are specified in the Operations Manual;</p> <p>(6) Each flight crew member undergoes the checks required by JAR-OPS 3.965(b) and the training and checks required by JAR-OPS 3.965(d) before commencing line flying under supervision;</p> <p>(7) Upon completion of line flying under supervision, the check required by JAR-OPS 3.965(c) is undertaken;</p> <p>(8) Once an operator's conversion course has been commenced, a flight crew member does not undertake flying duties on another type until the course is completed or terminated unless otherwise approved by the Authority (See IEM OPS 3.945(a)(8)); and</p> <p>(9) [Elements of CRM] training [are integrated into] the conversion course. [(See ACJ-1 OPS 3.943 and ACJ-2 OPS 3.943 and ACJ OPS 3.945(a)(9) and IEM OPS 3.945(a)(9)).]</p>	<p>OR.OPS.FC.220(c)</p> <p>OR.OPS.FC.220(c)</p> <p>OR.OPS.FC.220(d)(1)</p> <p>OR.OPS.FC.220(d)(2)</p> <p>OR.OPS.FC.220(b)</p> <p>OR.OPS.FC.220(a)</p>
<p>(b) In the case of changing helicopter type, the check required by 3.965(b) may be combined with the type rating skill test required by JAR-FCL.</p>	<p>AMC1-OR.OPS.FC.230, paragraph 2.a.i.C.</p>
<p>(c) The operator's conversion course and the Type Rating course required by JAR-FCL may be combined.</p>	<p>AMC1-OR.OPS.FC.220, paragraph 1.d.</p>
<p>JAR-OPS 3.950 Differences Training and Familiarisation training</p>	
<p>(a) An operator shall ensure that a flight crew member completes:</p>	<p>OR.OPS.FC.125(a)</p>

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
<p>(1) Differences training which requires additional knowledge and training on an appropriate training device:</p> <p>(i) When operating a variant of a helicopter currently operated; or</p> <p>(ii) When introducing a significant change of equipment and/or procedures on types or variants currently operated.</p> <p>(2) Familiarisation training which requires the acquisition of additional knowledge:</p> <p>(i) When operating another helicopter of the same type; or</p> <p>(ii) When introducing a significant change of equipment and/or procedures on types or variants currently operated.</p>	AMC1-OR.OPS.FC.125, paragraph 1.
<p>(b) The operator shall specify in the Operations Manual when such differences training or familiarisation training is required.</p>	OR.OPS.FC.125(b)
<p>JAR-OPS 3.955 Upgrade to commander (See Appendix 1 to JAR-OPS 3.955)</p>	
<p>(a) A pilot upgrading to commander shall complete an appropriate command course.</p>	OR.OPS.FC.105(b)(3)
<p>(b) The operator shall specify in the Operations Manual a minimum experience level for upgrade to commander from within the company and for those joining as direct entry commanders.</p>	OR.OPS.FC.105(b)(1)
<p>JAR-OPS 3.960 Commanders - Minimum Qualification Requirements</p>	
<p>(a) The minimum qualification requirements for a commander are either:</p> <p>(1) An Airline Transport Pilot Licence (Helicopter) (ATPL(H)); or</p> <p>(2) A Commercial Pilot's Licence (Helicopter) (CPL(H)) provided that:</p> <p>(i) When conducting operations under instrument flight rules (IFR), the commander has a minimum of 700 hours total flight time on helicopters which includes 300 hours as pilot-in-command (in accordance with JAR-FCL) and 100 hours under IFR. The 300 hours as pilot-in-command may be substituted by co-pilot hours on a 2 for 1 basis provided those hours were gained within an established two pilot crew concept system described in the Operations Manual;</p> <p>(ii) When conducting operations under visual meteorological conditions (VMC) at night, a commander, without a valid instrument rating, has 300 hours total flight time on helicopters which includes 100 hours as pilot-in-command and 10 hours at night as pilot flying.</p>	<p>Redundant with Part-FCL and OR.OPS.FC.100(c) – not transposed</p> <p>OR.OPS.FC.250.H</p>

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
<p>JAR-OPS 3.965 Recurrent Training and Checking (See Appendix 1 to JAR-OPS 3.965)[(See ACJ-No. 1 to JAR-OPS 3.943) (See ACJ-No. 2 to JAR-OPS 3.943)] (See AMC OPS 3.965)(See IEM OPS 3.965)</p>	
<p>(a) <i>General.</i> An operator shall ensure that:</p> <p>(1) Each flight crew member undergoes recurrent training and checking and that all such training and checking is relevant to the type or variant of helicopter on which the flight crew member operates;</p> <p>(2) A recurrent training and checking programme is established in the Operations Manual and approved by the Authority;</p>	<p>OR.OPS.FC.130(a) OR.OPS.FC.230(a)</p> <p>OR.OPS.FC.145(a)(1)+(b)</p>
<p>(3) Recurrent training is conducted by the following personnel:</p> <p>(i) <i>Ground and refresher training</i> - by suitably qualified personnel;</p> <p>(ii) <i>Helicopter/flight simulator training</i> - by a Type Rating Instructor (TRI) or a Flight Instructor (FI) with the appropriate type rating, or, in the case of the flight simulator content, a Synthetic Flight Instructor (SFI), providing that the TRI or the SFI satisfies the operator's experience and knowledge requirements sufficient to instruct on the items specified in [paragraphs] (a)(1)(i)(A) and (B) [of] Appendix 1 to JAR-OPS 3.965;</p> <p>(iii) <i>Emergency and safety equipment training</i> - by suitably qualified personnel; and</p> <p>(iv) <i>Crew Resource Management (CRM) training</i> - by suitably qualified personnel.</p>	<p>OR.OPS.FC.145(a)(2) AMC1-OR.OPS.FC.230, paragraph 4.a.</p> <p>AMC1-OR.OPS.FC.230, paragraph 4.b.</p> <p>AMC1-OR.OPS.FC.230, paragraph 4.c.</p> <p>AMC1-OR.OPS.FC.230, paragraph 4.d.</p>
<p>(4) Recurrent checking is conducted by the following personnel:</p> <p>(i) <i>Operator proficiency checks</i> - by a Type Rating Examiner [(TRE)], or a Flight Examiner [(FE)] with the appropriate type rating, [nominated by the operator and acceptable to the Authority or, a Synthetic Flight Examiner (SFE) if the check is conducted in a flight simulator approved for the purpose;] and</p> <p>(ii) Line checks – [by suitably qualified] commanders [trained in the assessment of CRM skills (see ACJ-2 OPS 3.943 paragraph 4)] nominated by the operator and acceptable to the Authority;</p> <p>(5) Each flight crew member undergoes operator proficiency checks as part of a normal flight crew complement.</p>	<p>AMC1-OR.OPS.FC.230, paragraph 4.e.</p> <p>+ AMC1-OR.OPS.FC.230, paragraph 2.c.v.</p> <p>OR.OPS.FC.230(b)(1)</p>
<p>(b) Operator Proficiency Check</p> <p>(1) An operator shall ensure that:</p> <p>(i) Each flight crew member undergoes operator proficiency checks to demonstrate his competence in carrying out normal, abnormal and emergency procedures; and</p>	<p>OR.OPS.FC.230(b)(1)</p> <p>OR.OPS.FC.230(b)(2)</p>

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
(ii) The check must be conducted without external visual references, as appropriate, when it is likely that the crew member will be required to operate under IFR.	
(2) The period of validity of an operator proficiency check shall be 6 calendar months in addition to the remainder of the month of issue. If issued within the final 3 calendar months of validity of a previous operator proficiency check, the period of validity shall extend from the date of issue until 6 calendar months from the expiry date of that previous operator proficiency check. Before a flight crew member, without a valid instrument rating, may operate VMC at night he will be required to undergo a proficiency check at night. Thereafter, each second proficiency check shall then be conducted at night.	OR.OPS.FC.230(b)(3), (g), (h) AMC1-OR.OPS.FC.230, paragraph 2.a.ii.C.
(c) <i>Line Check.</i> An operator shall ensure that each flight crew member undergoes a line check on the helicopter to demonstrate his competence in carrying out normal line operations described in the Operations Manual. The period of validity of a line check shall be 12 calendar months, in addition to the remainder of the month of issue. If issued within the final 3 calendar months of validity of a previous line check the period of validity shall extend from the date of issue until 12 calendar months from the expiry date of that previous line check.	OR.OPS.FC.230(c), (g), (h)
(d) <i>Emergency and Safety Equipment training and checking.</i> An operator shall ensure that each flight crew member undergoes training and checking on the location and use of all emergency and safety equipment carried. The period of validity of an emergency and safety equipment check shall be 12 calendar months in addition to the remainder of the month of issue. If issued within the final 3 calendar months of validity of a previous emergency and safety check, the period of validity shall extend from the date of issue until 12 calendar months from the expiry date of that previous emergency and safety equipment check.	OR.OPS.FC.230(d), (g), (h)
(e) [CRM. An operator shall ensure that: (1) Elements of CRM are integrated into all appropriate phases of the recurrent training, and; (2) Each flight crew member undergoes specific modular CRM training. All major topics of the initial CRM training shall be covered over a period not exceeding 3 years;]	OR.OPS.FC.230(e)
(f) <i>Ground and Refresher training.</i> An operator shall ensure that each flight crew member undergoes ground and refresher training at least every 12 calendar months. If the training is conducted within 3 calendar months prior to the expiry of the 12 calendar months period, the next ground and refresher training must be completed within 12 calendar months of the original expiry date of the previous ground and refresher training.	OR.OPS.FC.230(f), (g), (h)
(g) <i>Helicopter/flight simulator training.</i> An operator shall ensure that each flight crew member undergoes helicopter/flight simulator training at least every 12 calendar months. If the training is conducted within 3 calendar months prior to the expiry of the 12 calendar months period, the next helicopter/flight simulator training must be completed within 12 calendar months of the original expiry	OR.OPS.FC.230(f), (g), (h)

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
date of the previous ground and refresher training.	
<p>JAR-OPS 3.968 Pilot qualification to operate in either pilot's seat</p> <p>(See Appendix 1 to JAR-OPS 3.968) (See AMC OPS 3.965)(See IEM OPS 3.965)</p>	
<p>(a) An operator shall ensure that:</p> <p>(1) A pilot who may be assigned to operate in either pilot's seat completes appropriate training and checking; and</p> <p>(2) The training and checking programme is specified in the Operations Manual and is acceptable to the Authority.</p>	OR.OPS.FC.135 OR.OPS.FC.235
<p>JAR-OPS 3.970 Recent experience</p>	
<p>(a) An operator shall ensure that, except as permitted in sub-paragraph (b) below: ,</p> <p>(1) A pilot does not operate a helicopter unless he has carried out at least three take-offs, three circuits and three landings as pilot flying in a helicopter of the same type, or a Flight Simulator, of the helicopter type to be used, in the preceding 90 days.</p> <p>(2) For night VMC operations:</p> <p>(i) a pilot without a valid instrument rating has carried out at least three take-offs, three circuits and three landings at night in the preceding 90 days. This recency may be obtained in an STD.</p> <p>(ii) a pilot with a valid instrument rating satisfies the night recent experience requirement if he has carried out at least three instrument approaches in the preceding 90 days. This recency may be obtained in a STD.</p>	FCL.060(b)(1) FCL.060(b)(2)
<p>(b) The 90 day period prescribed in sub-paragraph (a) above may be extended up to a maximum of 120 days by line flying under the supervision of a nominated commander.</p>	FCL.060(c)(1)
<p>JAR-OPS 3.975 Route/Role/Area - Competence Qualification</p> <p>(See AMC OPS 3.975)</p>	
<p>(a) An operator shall ensure that, prior to being assigned as commander or as pilot to whom the conduct of flight may be delegated by the commander on a route, in a role or an area, the pilot has obtained adequate knowledge of the route to be flown and of the heliports (including alternates), facilities and procedures to be used.</p>	OR.OPS.FC.105(b)(2)
<p>(b) The period of validity of the route/role/area competence qualification shall be 12 calendar months in addition to the remainder of:</p> <p>(1) The month of qualification; or</p>	OR.OPS.FC.105(c); AMC1-OR.OPS.FC.105(c), paragraph 1.

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
(2) The month of the latest operation on the route, in the role or area.	
(c) The route/role/area competence qualification shall be revalidated by operating on the route, in the role or area within the period of validity prescribed in sub-paragraph (b) above.	OR.OPS.FC.105(c); AMC1-OR.OPS.FC.105(c)
(d) If revalidated within the final 3 calendar months of validity of previous route/role/area competence qualification, the period of validity shall extend from the date of revalidation until 12 calendar months from the expiry date of that previous route/role/area competence qualification.	AMC1-OR.OPS.FC.105(c), paragraph 2.
JAR-OPS 3.978 Intentionally blank	
JAR-OPS 3.980 Operation on more than one type or variant (See AMC OPS 3.980)	
(a) An operator shall ensure that a flight crew member does not operate more than one type or a variant unless: (1) The flight crew member is competent to do so; and (2) Appropriate procedures, approved by the Authority are included in the Operations Manual.	OR.OPS.FC.140(a) OR.OPS.FC.240(a)
JAR-OPS 3.985 Training Records (See IEM OPS 3.985)	
(a) An operator shall: (1) Maintain records of all training, checking and qualification prescribed in JAR-OPS 3.945, 3.955, 3.965, 3.968 and 3.975 undertaken by a flight crew member; and (2) Make the records of all conversion courses and recurrent training and checking available, on request, to the flight crew member concerned.	(1)OR.OPS.MLR.115(d)(1) (2)OR.OPS.MLR.115(d)(2)
Appendix 1 to JAR-OPS 3.940(c)Single pilot operations under IFR or at night	
(a) Helicopters referred to in JAR-OPS 3.940(c) may be operated by a single pilot under IFR or at night when the following requirements are satisfied: (1) The operator shall include in the Operations Manual a pilot's conversion and recurrent training programme which includes the additional requirements for a single pilot operation;	OR.OPS.FC.200(d)(2) OR.OPS.FC.202(a)
(2) Training and Recency. Attention shall be given to cockpit procedures, especially in respect of: (i) Engine management and emergency handling; (ii) Use of normal, abnormal and emergency checklist;	OR.OPS.FC.202(a)

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
<ul style="list-style-type: none"> (iii) ATC communication; (iv) Cockpit procedures in respect of departure and approach; (v) Autopilot management, if applicable; and (vi) Simplified in-flight documentation; 	
<ul style="list-style-type: none"> (3) The recurrent checks required by JAR-OPS 3.965 shall be performed in the single-pilot role on the particular helicopter type in an environment representative of the operation; (4) The pilot shall meet the Commanders minimum qualification requirements of JAR-OPS 3.960. 	OR.OPS.FC.202(b) Redundant with OR.OPS.FC.100(c) + OR.OPS.FC.250.H – not transposed
<ul style="list-style-type: none"> (5) For IFR operations, the pilot shall have experience as follows: <ul style="list-style-type: none"> (i) 25 hours total IFR flight experience in the relevant operating environment. (ii) 25 hours flight experience on the specific type of helicopter, approved for single pilot IFR, of which 10 hours is as commander or commander under supervision, including 5 sectors of IFR line flying under supervision using the single pilot procedures. (iii) The minimum required recent experience for a pilot engaged in a single-pilot operation under IFR shall be 5 IFR flights, including 3 instrument approaches, carried out during the preceding 90 days on [a] helicopter [approved] in the single-pilot role. This requirement may be replaced by an IFR instrument approach check on the helicopter [or an STD]. <p>Note: Additional equipment requirements for alleviating pilot workload are prescribed in JAR-OPS 3.655.</p>	OR.OPS.FC.202(e)
Appendix 1 to JAR-OPS 3.955 Upgrading to Commander	
<ul style="list-style-type: none"> (a) Upgrade Training Course <ul style="list-style-type: none"> (1) The command course required by JAR-OPS 3.955(a) must be specified in the Operations Manual and include at least the following: <ul style="list-style-type: none"> (i) Training in a flight simulator (including Line Orientated Flying Training) and/or flying training including a proficiency check operating as commander; (ii) Operator command responsibilities; (iii) Line training in command under supervision. A minimum of 10 hours including at least 10 sectors is required for pilots already qualified on the helicopter type; (iv) Completion of a commander's line check and route/role/area competency qualification. (v) For initial upgrade to commander the course shall 	OR.OPS.FC.145(a)(1) OR.OPS.FC.205(a)+(b) OR.OPS.FC.205(c) OR.OPS.FC.205(d)(2) OR.OPS.FC.205(e) OR.OPS.FC.205(f)

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
<p>also include [CRM. (See ACJ-1 OPS 3.943).]</p> <p>(2) <i>Combined Upgrading and Conversion Course.</i> If a pilot is converting from one helicopter type or variant to another when upgrading to commander:</p> <p>(i) The Command Course shall also include a Conversion Course in accordance with JAR-OPS 3.945.</p> <p>(ii) Additional sectors shall be required for a pilot transitioning on to a new type of helicopter.</p>	AMC1-OR.OPS.FC.205
<p>Appendix 1 to JAR-OPS 3.965 Recurrent Training and Checking - Pilots</p> <p>(See IEM to Appendix 1 to JAR-OPS 3.965)(See ACJ-No. 1 to JAR-OPS 3.943) (See ACJ-No. 2 to JAR-OPS 3.943)</p>	
<p>(a) <i>Recurrent Training</i> - Recurrent training shall comprise:</p> <p>(1) Ground and refresher training</p> <p>(i) The ground and refresher training programme shall include:</p> <p>(A) Helicopter systems;</p> <p>(B) Operational procedures and requirements including ground de-/anti-icing and pilot incapacitation; and</p> <p>(C) Accident/Incident and occurrence review.</p> <p>(ii) Knowledge of the ground and refresher training shall be verified by a questionnaire or other suitable methods.</p>	AMC1-OR.OPS.FC.230, paragraph 1.a.
<p>(2) Helicopter/flight simulator training</p> <p>(i) The helicopter/flight simulator training programme shall be established such that all major failures of helicopter systems and associated procedures will be covered within a 3 year period.</p> <p>(ii) When engine malfunctions are simulated, if no synthetic training device is available, these emergencies may be covered in the helicopter using a safe airborne simulation. In the event that such training is conducted in the helicopter, due consideration must be given to the effect of any subsequent failure and the exercise must be preceded by a comprehensive briefing.</p> <p>(iii) Helicopter/flight simulator training may be combined with the operator proficiency check.</p>	AMC1-OR.OPS.FC.230, paragraph 1.d.
<p>(3) Emergency and Safety Equipment Training</p> <p>(i) The emergency and safety equipment training programme may be combined with emergency and safety equipment checking and shall be conducted in a helicopter or a suitable alternative training device.</p> <p>(ii) Every year the emergency and safety equipment</p>	AMC1-OR.OPS.FC.230, paragraph 1.b.

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
<p>training programme must include the following:</p> <ul style="list-style-type: none"> (A) Actual donning of a lifejacket, where fitted; (B) Actual donning of protective breathing equipment, where fitted; (C) Actual handling of fire extinguishers, of the type used; (D) Instruction on the location and use of all emergency and safety equipment carried on the helicopter; (E) Instruction on the location and use of all types of exits; and (F) Security procedures. <p>(iii) Every three years the programme of training must include the following:</p> <ul style="list-style-type: none"> (A) Actual operation of all types of exits; (B) Actual fire-fighting using equipment representative of that carried in the helicopter on an actual or simulated fire except that, with Halon extinguishers, an alternative method acceptable to the Authority may be used; (C) The effects of smoke in an enclosed area and actual use of all relevant equipment in a simulated smoke-filled environment, if applicable; (D) Demonstration in the use of the life-rafts where fitted, or, demonstration <u>and</u> use of the life-rafts where they are fitted for extended overwater operations (See AMC to Appendix 1 to JAR-OPS 3.965, subparagraph (a)(3)(iii)(D); and (E) First aid[]; appropriate to the helicopter type, the kind of operation and crew complement (particularly in the case when crew members are not carried)]. <p>(4) CRM.</p>	<p>AMC1-OR.OPS.FC.230, paragraph 1.c.</p>
<p>(b) <i>Recurrent checking.</i> Recurrent checking shall comprise:</p> <ul style="list-style-type: none"> (1) Operator proficiency checks. <ul style="list-style-type: none"> (i) Where applicable, proficiency checks must include the following abnormal/emergency procedures: <ul style="list-style-type: none"> (A) Engine fire; (B) Fuselage fire; (C) Emergency operation of under carriage; (D) Fuel dumping; 	<p>AMC1-OR.OPS.FC.230, paragraph 2.a.ii.A.</p>

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
<p>(E) Engine Failure and relight;</p> <p>(F) Hydraulic failure;</p> <p>(G) Electrical failure;</p> <p>(H) Engine failure during take-off before decision point;</p> <p>(I) Engine failure during take-off after decision point;</p> <p>(J) Engine failure during landing before decision point;</p> <p>(K) Engine failure during landing after decision point;</p> <p>(L) Flight and engine control system malfunctions;</p> <p>(M) Recovery from unusual attitudes;</p> <p>(N) Landing with one or more engine(s) inoperative;</p> <p>(O) IMC auto-rotation techniques;</p> <p>(P) Auto-rotation to a designated area;</p> <p>(Q) Pilot incapacitation; and</p> <p>(R) Directional control failures and malfunctions.</p>	
<p>(ii) For pilots required to engage in IFR operations proficiency checks include the following additional abnormal/emergency procedures:</p> <p>(A) Precision instrument approach to minima with, in the case of multi-engined helicopters, a simulated failure of one engine;</p> <p>(B) Go-around on instruments from minima with, in the case of multi-engined helicopters, a simulated failure of one engine;</p> <p>(C) Non precision approach to minima;</p> <p>(D) Landing with a simulated failure of one or more engines; and</p> <p>(E) Where appropriate to the helicopter type, approach with flight control system/flight director system malfunctions, flight instrument and navigation equipment failures.</p>	AMC1-OR.OPS.FC.230, paragraph 2.a.ii.B.
<p>(2) <i>Emergency and safety equipment checks.</i> The items to be checked shall be those for which training has been carried out in accordance with sub-paragraph (a)(3) above.</p>	AMC1-OR.OPS.FC.230, paragraph 2.b.
<p>(3) <i>Line checks;</i></p>	AMC1-OR.OPS.FC.230, paragraph 2.c.

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
<p>(i) Line checks must establish the ability to perform satisfactorily a complete line operation including pre-flight and post-flight procedures and use of the equipment provided, as specified in the Operations Manual.</p> <p>(ii) The flight crew must be assessed on their CRM skills for the purpose of:</p> <p>(A) Providing feedback to the crew collectively and individually; and</p> <p>(B) improving the CRM training system.</p> <p>(iii) When pilots are assigned duties as pilot flying and pilot non-flying they must be checked in both functions.</p> <p>(iv) Line checks must be completed in a helicopter.</p> <p>(v) The person conducting a line check, who is described in JAR-OPS 3.965(a)(4)(ii), shall occupy an observer's seat whenever practical.</p>	+ OR.OPS.FC.230(c)
<p>(4) Single pilot operations ;</p> <p>(i) The recurrent checks required by sub-paragraphs (1) to (3) above shall be performed in the single pilot role on a particular helicopter type in an environment representative of the operation.</p>	AMC1-OR.OPS.FC.230, paragraph 2.e.
<p>Appendix 1 to JAR-OPS 3.968 Pilot qualification to operate in either pilot's seat</p>	
<p>(a) Commanders whose duties also require them to carry out the duties of the co-pilot, or commanders required to conduct training or examining duties, [shall complete their proficiency checks respectively from left and right hand seats, on alternate proficiency checks, provided that when the type rating proficiency check is combined with the operator proficiency check the commander completes his training or checking from his normally occupied seat. All checks, from whatever seat, must be completed as prescribed in JAR-OPS 3.965(b).]</p>	OR.OPS.FC.235(a)+(c)
<p>(b) When engine-out manoeuvres are carried out in a helicopter, the engine failure must be simulated. [When carried out in a single engine helicopter, the engine failure must be simulated and the training captain must carry out the autorotative landing respectively from left and right hand seats on alternate proficiency checks.]</p>	OR.OPS.FC.235(d) AMC1-OR.OPS.FC.235(d)
<p>(c) When operating in the co-pilot's seat, the checks required by JAR-OPS 3.965 and JAR-OPS 3.968 for operating in the commander's seat must, in addition, be valid and current.</p>	OR.OPS.FC.235(e)

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS 3 Subpart N Rule Text	EASA Rule Reference
<p>(d) A pilot relieving the commander shall have demonstrated, concurrent with the operator proficiency checks prescribed in JAR-OPS 3.965(b), practice of drills and procedures which would not, normally, be the relieving pilot's responsibility. Where the differences between left and right seats are not significant (for example because of use of autopilot) then practice may be conducted in either seat.</p>	OR.OPS.FC.235(f)
<p>(e) A pilot other than the commander occupying the commander's seat shall demonstrate practice of drills and procedures, concurrent with the operator proficiency checks prescribed in JAR-OPS 3.965(b), which would otherwise have been the commander's responsibility acting as pilot non-flying. Where the differences between right and left seats are not significant (for example because of use of autopilot) then practice may be conducted in either seat.</p>	OR.OPS.FC.235(g)

JAR-OPS 3 SUBPART O

CREW MEMBERS OTHER THAN FLIGHT CREW

JAR-OPS 3 Subpart O Rule Text	EASA Rule Reference
<p>JAR-OPS 3.988 Applicability (See Appendix 1 to JAR-OPS 3.988)</p>	
<p>An operator shall ensure that all crew members, other than flight crew members, assigned by the operator to duties in the helicopter, comply with the requirements of this Subpart except for cabin crew members who will comply <u>only</u> with the requirements in Appendix 1 to JAR-OPS 3.988.</p>	OR.OPS.TC.100
<p>JAR-OPS 3.990 <i>Intentionally blank</i></p>	
<p>JAR-OPS 3.995 Minimum requirements</p>	
<p>(a) An operator shall ensure that each crew member:</p> <ul style="list-style-type: none"> (1) Is at least 18 years of age; (2) Has passed an initial medical examination or assessment and is found medically fit to discharge the duties specified in the Operations Manual (see ACJ OPS 3.995(a)(2)); and (3) Remains medically fit to discharge the duties specified in the Operations Manual. 	OR.OPS.TC.105(a)(1)+(2)
<p>(b) An operator shall ensure that each crew member is competent to perform his duties in accordance with procedures specified in the Operations Manual.</p>	OR.OPS.TC.105(a)(3)+(4)
<p>JAR-OPS 3.1000 <i>Intentionally blank</i></p>	
<p>JAR-OPS 3.1005 Initial training (See ACJ OPS 3.1005)</p>	
<p>An operator shall ensure that each crew member successfully completes initial training (which shall include appropriate elements of JAR-OPS 3.943), accepted by the Authority, and the checking prescribed in JAR-OPS 3.1025 before undertaking conversion training.</p>	OR.OPS.TC.115
<p>JAR-OPS 3.1010 Conversion and Differences Training (See ACJ OPS 3.1010)</p>	
<p>(a) An operator shall ensure that each crew member has completed appropriate training, as specified in the Operations Manual,</p>	OR.OPS.TC.120(a)(1)+(2) OR.OPS.TC.125

JAR-OPS 3 Subpart O Rule Text	EASA Rule Reference
<p>before undertaking assigned duties as follows:</p> <p>(1) <i>Conversion training.</i> A conversion course must be completed before being:</p> <p>(i) First assigned by the operator to operate as a crew member; or</p> <p>(ii) Assigned to operate another helicopter type; and</p> <p>(2) <i>Differences training.</i> Differences training must be completed before operating:</p> <p>(i) On a variant of a helicopter type currently operated; or</p> <p>(ii) With different safety equipment, safety equipment location, equipment relevant to the crew member's duties, or normal and emergency procedures on currently operated helicopter types or variants.</p>	
<p>(b) An operator shall determine the content of the conversion or differences training taking account of the crew member's previous training as recorded in the crew member's training records required by JAR - OPS 3.1035.</p>	AMC2-OR.OPS.TC.120 1.
<p>(c) An operator shall ensure that:</p> <p>(1) Conversion training is conducted in a structured and realistic manner;</p> <p>(2) Differences training is conducted in a structured manner; and</p> <p>(3) Conversion training, and if necessary differences training, includes the use of all relevant equipment (including safety equipment) and emergency procedures applicable to the type or variant of helicopter and involves training and practice on either a representative training device or on the actual helicopter.</p> <p>(4) Elements of CRM training are integrated into the conversion course.</p>	OR.OPS.TC.120(b)(1)-(3) OR.OPS.TC.125(a) AMC2-OR.OPS.TC.120 and OR.OPS.TC.125 2.
<p>JAR-OPS 3.1012 Familiarisation flights</p>	
<p>An operator shall ensure that, following completion of conversion training, each crew member undertakes familiarisation flight prior to operating as one of the crew members required by JAR-OPS 3.</p>	OR.OPS.TC.130
<p>JAR-OPS 3.1015 Recurrent training (See ACJ OPS 3.1015)</p>	
<p>(a) An operator shall ensure that each crew member undergoes recurrent training, covering the actions assigned to each crew member in normal and emergency procedures and drills relevant to the type(s) and/or variant(s) of helicopter on which they operate.</p>	OR.OPS.TC.135(a) AMC1-OR.OPS.TC.135

JAR-OPS 3 Subpart O Rule Text	EASA Rule Reference
(b) An operator shall ensure that the recurrent training and checking programme accepted by the Authority includes theoretical and practical instruction, together with individual practice.	OR.OPS.TC.135(b)
(c) The period of validity of recurrent training and the associated checking required by JAR-OPS 3.1025 shall be 12 calendar months in addition to the remainder of the month of issue. If issued within the final 3 calendar months of validity of a previous check, the period of validity shall extend from the date of issue until 12 calendar months from the expiry date of that previous check.	OR.OPS.TC.135(a) AMC1-OR.OPS.TC.135 1.
(d) An operator shall ensure that: <ul style="list-style-type: none"> (1) Elements of CRM are integrated into all appropriate phases of the recurrent training; and (2) Each crew member undergoes specific modular CRM training. All major topics of the initial CRM training shall be covered over a period not exceeding 3 years. 	OR.OPS.TC.135(a) AMC1-OR.OPS.TC.135 2.i.
<p>JAR-OPS 3.1020 Refresher Training (See ACJ OPS 3.1020)</p>	
(a) An operator shall ensure that each crew member who has been absent from all flying duties for more than 6 months completes refresher training specified in the Operations Manual	OR.OPS.TC.140(a)
(b) An operator shall ensure that when a crew member has not been absent from all flying duties, but has not, during the preceding 6 months, undertaken duties on a type of helicopter as a crew member, before undertaking such duties on that type, the crew member either: <ul style="list-style-type: none"> (1) Completes refresher training on the type; or (2) Operates two re-familiarisation sectors. 	OR.OPS.TC.140(b)
<p>JAR-OPS 3.1025 Checking (See ACJ OPS 3.1025)</p>	
(a) An operator shall ensure that during or following completion of the training required by JAR-OPS 3.1005, 3.1010 and 3.1015, each crew member undergoes a check covering the training received in order to verify his proficiency in carrying out normal and emergency safety duties. These checks must be performed by personnel acceptable to the Authority.	OR.OPS.TC.110(a)-(c)
(b) An operator shall ensure that each crew member undergoes checks as follows: <ul style="list-style-type: none"> (1) <i>Initial training.</i> (See ACJ OPS 3.1005); (2) <i>Conversion and Differences training.</i> (See ACJ OPS 3.1010); and (3) <i>Recurrent training.</i> (See ACJ OPS 3.1015). 	OR.OPS.TC.110(a)-(c)

JAR-OPS 3 SUBPART P
MANUALS, LOGS AND RECORDS

JAR-OPS Subpart P - Rule Text	EASA Rule Reference
JAR-OPS 3.1040 General Rules for Operations Manuals	
(a) An operator shall ensure that the Operations Manual contains all instructions and information necessary for operations personnel to perform their duties	OR.OPS.MLR.100(a): Reference to 8.b BR instead of EU-OPS text
(b) An operator shall ensure that the contents of the Operations Manual, including all amendments or revisions, do not contravene the conditions contained in the Air Operator Certificate (AOC) or any applicable regulations and are acceptable to, or, where applicable, approved by, the Authority. (See IEM OPS 3.1040(b).)	OR.OPS.MLR.100(b)
(c) Unless otherwise approved by the Authority, or prescribed by national law, an operator must prepare the Operations Manual in the English language. In addition, an operator may translate and use that manual, or parts thereof, into another language. (See IEM OPS 3.1040(c).)	Not transferred as against Community principles giving all EU languages an equal status
(d) Should it become necessary for an operator to produce new Operations Manuals or major parts/volumes thereof, he must comply with sub-paragraph (c) above. In all other cases, an operator must comply with sub-paragraph (c) above as soon as possible and in no case later than 1 December 2000.	Not transferred as against Community principles giving all EU languages an equal status
(e) An operator may issue an Operations Manual in separate volumes.	OR.OPS.MLR.100(c)
(f) An operator shall ensure that all operations personnel have easy access to a copy of each part of the Operations Manual which is relevant to their duties. In addition, the operator shall supply crew members with a personal copy of, or sections from, Parts A and B of the Operations Manual as are relevant for personal study.	OR.OPS.MLR.100(d) OR.OPS.MLR.100(f)
(g) An operator shall ensure that the Operations Manual is amended or revised so that the instructions and information contained therein are kept up to date. The operator shall ensure that all operations personnel are made aware of such changes that are relevant to their duties.	OR.OPS.MLR.100(e)
(h) Each holder of an Operations Manual, or appropriate parts of it, shall keep it up to date with the amendments or revisions supplied by the operator.	OR.OPS.MLR.100(f)
(i) An operator shall supply the Authority with intended amendments and revisions in advance of the effective date. When the amendment concerns any part of the Operations Manual which must be approved in accordance with JAR-OPS Part 3, this approval shall be obtained before the amendment becomes effective. When immediate amendments or revisions are required	OR.OPS.MLR.100(g) OR.OPS.MLR.100(h)

JAR-OPS Subpart P - Rule Text	EASA Rule Reference
altitudes/flight levels for IFR flights.	
<p>8.1.2 Criteria for determining the usability of aerodromes</p> <p>8.1.3 Methods for the determination of aerodrome operating minima. The method for establishing aerodrome operating minima for IFR flights in accordance with JAR-OPS Part 3 Subpart E. Reference must be made to procedures for the determination of the visibility and/or runway visual range and for the applicability of the actual visibility observed by the pilots, the reported visibility and the reported runway visual range.</p> <p>8.1.4 En-route Operating Minima for VFR Flights or VFR portions of a flight and, where single engined helicopters are used, instructions for route selection with respect to the availability of surfaces which permit a safe forced landing.</p>	AMC3-OR.OPS.MLR.100(1)
<p>8.1.5 Presentation and Application of Aerodrome and En-route Operating Minima</p> <p>8.1.6 Interpretation of meteorological information. Explanatory material on the decoding of MET forecasts and MET reports relevant to the area of operations, including the interpretation of conditional expressions.</p> <p>8.1.7 Determination of the quantities of fuel, oil and water methanol carried. The methods by which the quantities of fuel, oil and water methanol to be carried are determined and monitored in flight. This section must also include instructions on the measurement and distribution of the fluid carried on board. Such instructions must take account of all circumstances likely to be encountered on the flight, including the possibility of in-flight replanning and of failure of one or more of the helicopter's power plants. The system for maintaining fuel and oil records must also be described.</p>	AMC3-OR.OPS.MLR.100(1)
<p>8.1.8 Mass and Centre of Gravity. The general principles of mass and centre of gravity including:</p> <p>(a) Definitions;</p> <p>(b) Methods, procedures and responsibilities for preparation and acceptance of mass and centre of gravity calculations;</p> <p>(c) The policy for using either standard and/or actual masses;</p> <p>(d) The method for determining the applicable passenger, baggage and cargo mass;</p> <p>(e) The applicable passenger and baggage masses for various types of operations and helicopter type;</p> <p>(f) General instruction and information necessary for verification of the various types of mass and balance documentation in use;</p> <p>(g) Last Minute Changes procedures;</p> <p>(h) Specific gravity of fuel, oil and water methanol;</p>	AMC3-OR.OPS.MLR.100(1)

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS Subpart P - Rule Text	EASA Rule Reference
(i) Seating policy/procedures; and (j) Standard load plans.	
8.1.9 <i>ATS Flight Plan</i> . Procedures and responsibilities for the preparation and submission of the air traffic services flight plan. Factors to be considered include the means of submission for both individual and repetitive flight plans. 8.1.10 <i>Operational Flight Plan</i> . Procedures and responsibilities for the preparation and acceptance of the operational flight plan. The use of the operational flight plan must be described including samples of the operational flight plan formats in use. 8.1.11 <i>Operator's Helicopter Technical Log</i> . The responsibilities and the use of the operator's Helicopter Technical Log must be described, including samples of the format used. 8.1.12 <i>List of documents, forms and additional information to be carried</i>	AMC3-OR.OPS.MLR.100(1)
8.2 Ground Handling Instructions 8.2.1 <i>Fuelling procedures</i> . A description of fuelling procedures, including: <ul style="list-style-type: none"> (a) Safety precautions during refuelling and defuelling including rotors running, engine(s) running and when an APU is in operation; (b) Refuelling and defuelling when passengers are embarking, on board or disembarking; and (c) Precautions to be taken to avoid mixing fuels. 	AMC3-OR.OPS.MLR.100(1)
8.2.2 <i>Helicopter, passengers and cargo handling procedures related to safety</i> . A description of the handling procedures to be used when allocating seats and embarking and disembarking passengers and when loading and unloading the helicopter. Further procedures, aimed at achieving safety whilst the helicopter is on the ramp, must also be given. Handling procedures must include: <ul style="list-style-type: none"> (a) Children/infants, sick passengers and Persons with Reduced Mobility; (b) Transportation of inadmissible passengers, deportees or persons in custody; (c) Permissible size and weight of hand baggage; (d) Loading and securing of items in the helicopter; (e) Special loads and classification of load compartments; (f) Positioning of ground equipment; (g) Operation of helicopter doors; (h) Safety on the ramp, including fire prevention, blast and suction areas; (i) Start-up, ramp departure and arrival procedures; (j) Servicing of helicopters; and 	AMC3-OR.OPS.MLR.100(1)

JAR-OPS Subpart P - Rule Text	EASA Rule Reference
(k) Documents and forms for helicopter handling; (l) Multiple occupancy of helicopter seats.	
8.2.3 <i>Procedures for the refusal of embarkation.</i> Procedures to ensure that persons who appear to be intoxicated or who demonstrate by manner or physical indications that they are under the influence of drugs, except medical patients under proper care, are refused embarkation.	AMC3-OR.OPS.MLR.100(1)
8.2.4 <i>De-icing and Anti-icing on the ground.</i> A description of the de-icing and anti-icing policy and procedures for helicopters on the ground. These shall include descriptions of the types and effects of icing and other contaminants on helicopters whilst stationary, during ground movements and during take-off. In addition, a description of the fluid types used must be given including: <ul style="list-style-type: none"> (a) Proprietary or commercial names; (b) Characteristics; (c) Effects on helicopter performance; (d) Hold-over times; and (e) Precautions during usage. 	AMC3-OR.OPS.MLR.100(1)
8.3 Flight Procedures <ul style="list-style-type: none"> 8.3.1 <i>VFR/IFR Policy.</i> A description of the policy for allowing flights to be made under VFR, or of requiring flights to be made under IFR, or of changing from one to the other. 8.3.2 <i>Navigation Procedures.</i> A description of all navigation procedures relevant to the type(s) and area(s) of operation. Consideration must be given to: <ul style="list-style-type: none"> (a) Standard navigational procedures including policy for carrying out independent cross-checks of keyboard entries where these affect the flight path to be followed by the helicopter; (b) MNPS and POLAR navigation and navigation in other designated areas; (c) RNAV. A description of the relevant RNAV procedures specified in Part C; (d) In-flight replanning; and (e) Procedures in the event of system degradation. 	AMC3-OR.OPS.MLR.100(1)
8.3.3 Altimeter setting procedures 8.3.4 Audio voice alerting device 8.3.5 Intentionally blank 8.3.6 Intentionally blank 8.3.7 Policy and procedures for in-flight fuel management	AMC3-OR.OPS.MLR.100(1)
8.3.8 Adverse and potentially hazardous atmospheric conditions. Procedures for operating in, and/or avoiding, potentially hazardous atmospheric conditions including:	AMC3-OR.OPS.MLR.100(1)

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS Subpart P - Rule Text	EASA Rule Reference
<ul style="list-style-type: none"> (a) Thunderstorms; (b) Icing conditions; (c) Turbulence; (d) Windshear; (e) Jet stream; (f) Volcanic ash clouds; (g) Heavy precipitation; (h) Sand storms; (i) Mountain waves; and (j) Significant Temperature inversions. 	
<p>8.3.9 <i>Wake Turbulence and Rotor Downwash.</i> Wake turbulence and rotor downwash separation, taking into account helicopter types, wind conditions and FATO location.</p>	AMC3-OR.OPS.MLR.100(1)
<p>8.3.10 <i>Crew members at their stations.</i> The requirements for crew members to occupy their assigned stations or seats during the different phases of flight or whenever deemed necessary in the interest of safety.</p>	AMC3-OR.OPS.MLR.100(1)
<p>8.3.11 <i>Use of safety belts for crew and passengers.</i> The requirements for crew members and passengers to use safety belts and/or harnesses during the different phases of flight or whenever deemed necessary in the interest of safety.</p>	AMC3-OR.OPS.MLR.100(1)
<p>8.3.12 <i>Admission to Cockpit.</i> The conditions for the admission to the cockpit of persons other than the flight crew. The policy regarding the admission of Inspectors from the Authority must also be included.</p>	AMC3-OR.OPS.MLR.100(1)
<p>8.3.13 <i>Use of vacant crew seats.</i> The conditions and procedures for the use of vacant crew seats.</p>	AMC3-OR.OPS.MLR.100(1)
<p>8.3.14 <i>Incapacitation of crew members.</i> Procedures to be followed in the event of incapacitation of crew members in flight. Examples of the types of incapacitation and the means for recognising them must be included.</p>	AMC3-OR.OPS.MLR.100(1)
<p>8.3.15 <i>Cabin Safety Requirements.</i> Procedures covering:</p> <ul style="list-style-type: none"> (a) Cabin preparation for flight, in-flight requirements and preparation for landing including procedures for securing cabin and galleys; (b) Procedures to ensure that passengers are seated where, in the event that an emergency evacuation is required, they may best assist and not hinder evacuation from the helicopter; (c) Procedures to be followed during passenger embarkation and disembarkation; (d) Procedures in the event of fuelling with passengers on board or embarking and disembarking; and 	AMC3-OR.OPS.MLR.100(1)

Rule comparison tables EU-OPS, JAR-OPS 3

JAR-OPS Subpart P - Rule Text	EASA Rule Reference
(e) Smoking on board.	
<p>8.3.16 <i>Passenger briefing procedures.</i> The contents, means and timing of passenger briefing in accordance with JAR-OPS 3.285.</p> <p>8.3.17 <i>Intentionally blank</i></p>	AMC3-OR.OPS.MLR.100(1)
<p>8.4 <i>AWO.</i> A description of the operational procedures associated with All Weather Operations. (See JAR-OPS Part 3 Subparts D & E).</p> <p>8.5 <i>Intentionally blank</i></p> <p>8.6 <i>Use of the Minimum Equipment and Configuration Deviation List(s)</i></p> <p>8.7 <i>Non revenue flights.</i> Procedures and limitations for:</p> <ul style="list-style-type: none"> (a) Training flights; (b) Test flights; (c) Delivery flights; (d) Ferry flights; (e) Demonstration flights; and (f) Positioning flights, including the kind of persons who may be carried on such flights. 	AMC3-OR.OPS.MLR.100(1)
<p>8.8 Oxygen Requirements</p> <p>8.8.1 An explanation of the conditions under which oxygen must be provided and used.</p> <p>8.8.2 The oxygen requirements specified for:</p> <ul style="list-style-type: none"> (a) Flight crew; (b) Cabin crew; and (c) Passengers. 	AMC3-OR.OPS.MLR.100(1)
<p>9 DANGEROUS GOODS AND WEAPONS</p> <p>9.1 Information, instructions and general guidance on the transport of dangerous goods including:</p> <ul style="list-style-type: none"> (a) Operator's policy on the transport of dangerous goods; (b) Guidance on the requirements for acceptance, labelling, handling, stowage and segregation of dangerous goods; (c) Procedures for responding to emergency situations involving dangerous goods; (d) Duties of all personnel involved as per JAR-OPS 3.1215; and (e) Instructions on the carriage of the operator's employees. <p>9.2 The conditions under which weapons, munitions of war and sporting weapons may be carried.</p>	AMC3-OR.OPS.MLR.100(1)
<p>10 SECURITY</p> <p>10.1 Security instructions and guidance of a non-confidential nature which must include the authority and responsibilities of operations personnel. Policies and procedures for handling and</p>	AMC3-OR.OPS.MLR.100(1)

JAR-OPS Subpart P - Rule Text	EASA Rule Reference
<p>reporting crime on board such as unlawful interference, sabotage, bomb threats, and hijacking must also be included.</p> <p>10.2 A description of preventative security measures and training.</p> <p>NOTE: Parts of the security instructions and guidance may be kept confidential.</p>	
<p>11 HANDLING[, NOTIFYING AND REPORTING] OCCURRENCES</p> <p>Procedures for the handling, notifying and reporting [] occurrences. This section must include:</p> <p>(a) Definitions of [] occurrences and [of] the relevant responsibilities of all persons involved;</p>	AMC3-OR.OPS.MLR.100(1)
<p>(b) [Illustrations of forms used for reporting all types of occurrences (or copies of the forms themselves), instructions on how they are to be completed, the addresses to which they should be sent and the time allowed for this to be done;]</p>	AMC3-OR.OPS.MLR.100(1)
<p>(c) [In the event of an accident, descriptions of which company departments, Authorities and other organizations that have to be notified, how this will be done and in what sequence;]</p>	AMC3-OR.OPS.MLR.100(1)
<p>(d) [Procedures for verbal notification to air traffic service units of incidents involving ACAS RAs, bird hazards, dangerous goods and hazardous conditions;]</p>	AMC3-OR.OPS.MLR.100(1)
<p>(e) [Procedures for submitting written reports on air traffic incidents, ACAS RAs, bird strikes, dangerous goods incidents or accidents, and unlawful interference;]</p>	AMC3-OR.OPS.MLR.100(1)
<p>(f) [Reporting procedures to ensure compliance with JAR-OPS 3.085(b) and 3.420. These procedures must include internal safety related reporting procedures to be followed by crew members, designed to ensure that the commander is informed immediately of any incident that has endangered, or may have endangered, safety during flight and that he is provided with all relevant information.]</p>	AMC3-OR.OPS.MLR.100(1)
<p>12 RULES OF THE AIR</p> <p>Rules of the Air including:</p> <p>(a) Visual and instrument flight rules;</p> <p>(b) Territorial application of the Rules of the Air;</p> <p>(c) Communication procedures including COM-failure procedures;</p> <p>(d) Information and instructions relating to the interception of civil helicopters;</p> <p>(e) The circumstances in which a radio listening watch is to be maintained;</p> <p>(f) Signals;</p> <p>(g) Time system used in operation;</p> <p>(h) ATC clearances, adherence to flight plan and position reports;</p> <p>(i) Visual signals used to warn an unauthorised helicopter flying in or about to enter a restricted, prohibited or danger area;</p> <p>(j) Procedures for pilots observing an accident or receiving a distress</p>	AMC3-OR.OPS.MLR.100(1)

JAR-OPS Subpart P - Rule Text	EASA Rule Reference
transmission; (k) The ground/air visual codes for use by survivors, description and use of signal aids; and (l) Distress and urgency signals.	
[13 LEASING. A description of the operational arrangements for leasing, associated procedures and management responsibilities.]	AMC3-OR.OPS.MLR.100(1)
B HELICOPTER OPERATING MATTERS –TYPE RELATED Taking account of the differences between types, and variants of types, under the following headings:	AMC3-OR.OPS.MLR.100(1)
0 GENERAL INFORMATION AND UNITS OF MEASUREMENT 0.1 General Information (e.g. helicopter dimensions), including a description of the units of measurement used for the operation of the helicopter type concerned and conversion tables.	AMC3-OR.OPS.MLR.100(1)
1 LIMITATIONS 1.1 A description of the certified limitations and the applicable operational limitations including: <ul style="list-style-type: none"> (a) Certification status (e.g. JAR-27, JAR-29, ICAO Annex 16 (JAR-34 and JAR-36) etc.); (b) Passenger seating configuration for each helicopter type including a pictorial presentation; (c) Types of operation that are approved (e.g. IFR/VFR, CAT II/III, RNP Type, flights in known icing conditions etc.); (d) Crew composition; (e) Mass and centre of gravity; (f) Speed limitations; (g) Flight envelope(s); (h) Wind limits; (i) Performance limitations for applicable configurations; (j) Slope; (k) Airframe contamination; (l) System limitations. 	AMC3-OR.OPS.MLR.100(1)
2 EMERGENCY PROCEDURES 2.1 The emergency procedures and duties assigned to the crew, the appropriate checklists, the system for use of the checklists and a statement covering the necessary co-ordination procedures between flight and [other] crew [members (the design and utilisation of which shall observe Human factors and CRM principles)]. The following emergency procedures and duties must be included: <ul style="list-style-type: none"> (a) Crew Incapacitation; (b) Fire and Smoke Drills; (c) Lightning Strikes; (d) Distress Communications and alerting ATC to 	AMC3-OR.OPS.MLR.100(1)

JAR-OPS Subpart P - Rule Text	EASA Rule Reference
<p>Emergencies;</p> <p>(e) Engine failure;</p> <p>(f) System failures;</p> <p>(g) Guidance for Diversion in case of Serious Technical Failure;</p> <p>(h) AVAD warning;</p> <p>(i) Windshear;</p> <p>(j) Emergency Landing/Ditching;</p>	
<p>3 NORMAL PROCEDURES</p> <p>3.1 The normal procedures and duties assigned to the crew, the appropriate check-lists, the system for use of the check-lists and a statement covering the necessary coordination procedures between flight and cabin crew. The following normal procedures and duties must be included:</p> <p>(a) Pre-flight;</p> <p>(b) Pre-departure;</p> <p>(c) Altimeter setting and checking;</p> <p>(d) Taxi, Take-Off and Climb;</p> <p>(e) Noise abatement;</p> <p>(f) Cruise and descent;</p> <p>(g) Approach, Landing preparation and briefing;</p> <p>(h) VFR Approach;</p> <p>(i) IFR approach;</p> <p>(j) Visual Approach and circling;</p> <p>(k) Missed Approach;</p> <p>(l) Normal Landing;</p> <p>(m) Post Landing.</p>	<p>AMC3-OR.OPS.MLR.100(1)</p>
<p>4 PERFORMANCE</p> <p>4.0 Performance data must be provided in a form in which it can be used without difficulty.</p> <p>4.1 Performance data. Performance material which provides the necessary data for compliance with the performance requirements prescribed in Subparts F, G H and I.</p> <p>4.2 If performance Data, as required for the appropriate performance class, is not available in the approved HFM, then other data acceptable to the Authority must be included. Alternatively, the Operations Manual may contain cross-reference to the approved data contained in the HFM where such data is not likely to be used often or in an emergency.</p>	<p>AMC3-OR.OPS.MLR.100(1)</p>
<p>5 MASS AND BALANCE</p> <p>Instructions and data for the calculation of the mass and balance including:</p> <p>(a) Calculation system (e.g. Index system);</p> <p>(b) Information and instructions for completion of mass and balance</p>	<p>AMC3-OR.OPS.MLR.100(1)</p>

JAR-OPS Subpart P - Rule Text	EASA Rule Reference
<p>documentation, including manual and computer generated types;</p> <p>(c) Limiting masses and centre of gravity for the types, variants or individual helicopters used by the operator; and</p> <p>(d) Dry Operating mass and corresponding centre of gravity or index.</p>	
<p>6 LOADING</p> <p>Procedures and provisions for loading and securing the load in the helicopter.</p>	AMC3-OR.OPS.MLR.100(1)
<p>7 FLIGHT PLANNING</p> <p>7.1 Data and instructions necessary for pre-flight and in-flight planning. Where applicable, procedures for engine(s) out operations and flights to isolated heliports must be included.</p> <p>7.2 The method for calculating fuel needed for the various stages of flight, in accordance with JAR-OPS 3.255.</p>	AMC3-OR.OPS.MLR.100(1)
<p>8 CONFIGURATION DEVIATION LIST</p> <p>The Configuration Deviation List(s) (CDL), if provided by the manufacturer, taking account of the helicopter types and variants operated including procedures to be followed when a helicopter is being despatched under the terms of its CDL.</p>	AMC3-OR.OPS.MLR.100(1)
<p>9 MINIMUM EQUIPMENT LIST</p> <p>The Minimum Equipment List (MEL) taking account of the helicopter types and variants operated and the type(s)/area(s) of operation. The MEL must include the navigational equipment and take into account the required navigation performance for the route and area of operation.</p>	AMC3-OR.OPS.MLR.100(1)
<p>10 SURVIVAL AND EMERGENCY EQUIPMENT INCLUDING OXYGEN</p> <p>10.1 A list of the survival equipment to be carried for the routes to be flown and the procedures for checking the serviceability of this equipment prior to take-off. Instructions regarding the location, accessibility and use of survival and emergency equipment and its associated check list(s) must also be included.</p> <p>10.2 The procedure for determining the amount of oxygen required and the quantity that is available. The flight profile and number of occupants.</p>	
<p>11 EMERGENCY EVACUATION PROCEDURES</p> <p>11.1 Instructions for preparation for emergency evacuation including crew co-ordination and emergency station assignment.</p> <p>11.2 Emergency evacuation procedures. A description of the duties of all members of the crew for the rapid evacuation of a helicopter and the handling of the passengers in the event of a forced landing, ditching or other emergency.</p>	AMC3-OR.OPS.MLR.100(1)

JAR-OPS Subpart P - Rule Text	EASA Rule Reference
<p>12 HELICOPTER SYSTEMS</p> <p>A description of the helicopter systems, related controls and indications and operating instructions. (See IEM to Appendix 1 to JAR-OPS 3.1045.)</p>	<p>AMC3-OR.OPS.MLR.100(1)</p>
<p>C ROUTE AND HELIPORT INSTRUCTIONS AND INFORMATION</p> <p>1 Instructions and information relating to communications, navigation and heliport including minimum flight levels and altitudes for each route to be flown and operating minima for each heliport planned to be used, including:</p> <ul style="list-style-type: none"> (a) Minimum flight level/altitude; (b) Operating minima for departure, destination and alternate aerodromes; (c) Communication facilities and navigation aids; (d) FATO/runway data and heliport facilities; (e) Approach, missed approach and departure procedures including noise abatement procedures; (f) COM-failure procedures; (g) Search and rescue facilities in the area over which the helicopter is to be flown; (h) A description of the aeronautical charts that must be carried on board in relation to the type of flight and the route to be flown, including the method to check their validity; (i) Availability of aeronautical information and MET services; (j) En-route COM/NAV procedures. (k) <i>Intentionally blank</i> (l) Special heliport limitations (performance operating etc.). 	<p>AMC3-OR.OPS.MLR.100(1)</p>
<p>D TRAINING</p> <p>1 Training syllabi and checking programmes for all operations personnel assigned to operational duties in connection with the preparation and/or conduct of a flight.</p>	<p>AMC3-OR.OPS.MLR.100(1)</p>
<p>2 Training syllabi and checking programmes must include:</p> <ul style="list-style-type: none"> 2.1 <i>For flight crew.</i> All relevant items prescribed in JAR-OPS Part 3 Subparts E and N; 2.2 <i>For cabin crew.</i> All relevant items prescribed in Subpart O; 2.3 <i>For operations personnel concerned, including crew members:</i> <ul style="list-style-type: none"> (a) All relevant items prescribed in JAR-OPS Part 3 Subpart R (Transport of Dangerous Goods by Air); and (b) All relevant items prescribed in JAR-OPS Part 3, Subpart S (Security). 2.4 For operations personnel other than crew members (e.g. despatcher, handling personnel etc.). All other relevant items prescribed in JAR-OPS pertaining to their duties. 	<p>AMC3-OR.OPS.MLR.100(1)</p>

JAR-OPS Subpart P - Rule Text	EASA Rule Reference												
<p>3 Procedures</p> <p>3.1 Procedures for training and checking.</p> <p>3.2 Procedures to be applied in the event that personnel do not achieve or maintain the required standards.</p> <p>3.3 Procedures to ensure that abnormal or emergency situations requiring the application of part or all of abnormal or emergency procedures and simulation of IMC by artificial means, are not simulated during commercial air transportation flights.</p> <p>4 Description of documentation to be stored and storage periods. (See Appendix 1 to JAR-OPS 3.1065.)</p>	AMC3-OR.OPS.MLR.100(1)												
<p>Appendix 1 to JAR-OPS 3.1065 Document storage periods</p> <p>An operator shall ensure that the following information/documentation is stored in an acceptable form, accessible to the Authority, for the periods shown in the Tables below.</p> <p>Note: Additional information relating to maintenance records is prescribed in [Part-M – M.A.306(c) Operator’s technical log system].</p>	OR.OPS.MLR.115(b)												
<p>Table 1 – Information used for the preparation and execution of a flight</p> <table border="1" data-bbox="221 1016 791 1675"> <thead> <tr> <th colspan="2">Information used for the preparation and execution of the flight as described in JAR-OPS 3.135</th> </tr> </thead> <tbody> <tr> <td>Operational flight plan</td> <td>3 months</td> </tr> <tr> <td>Helicopter Technical log</td> <td>24 months after the date of the last entry</td> </tr> <tr> <td>Route specific NOTAM/AIS briefing documentation if edited by the operator</td> <td>3 months</td> </tr> <tr> <td>Mass and balance documentation</td> <td>3 months</td> </tr> <tr> <td>Notification of special loads including written information to the commander about dangerous goods</td> <td>3 months</td> </tr> </tbody> </table>	Information used for the preparation and execution of the flight as described in JAR-OPS 3.135		Operational flight plan	3 months	Helicopter Technical log	24 months after the date of the last entry	Route specific NOTAM/AIS briefing documentation if edited by the operator	3 months	Mass and balance documentation	3 months	Notification of special loads including written information to the commander about dangerous goods	3 months	OR.OPS.MLR.115(b)
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JAR-OPS Subpart P - Rule Text		EASA Rule Reference																						
which the commander deems necessary to report/record																								
Reports on exceedances of duty and/or reducing rest periods	3 months																							
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JAR-OPS Subpart P - Rule Text		EASA Rule Reference								
Initial training, conversion and differences training (including checking)	As long as the cabin crew member is employed by the operator									
Recurrent training and refresher (including checking)	Until 12 months after the cabin crew member has left the employ of the operator									
Dangerous Goods training as appropriate	3 years									
Table 5 – Records for other operations personnel		OR.OPS.MLR.115(c)								
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JAR-OPS SUBPART S
SECURITY

JAR-OPS Subpart S - Rule Text	EASA Rule Reference
JAR-OPS 3.1235 Security requirements	
An operator shall ensure that all appropriate personnel are familiar, and comply, with the relevant requirements of the national security programmes of the State of the operator.	This rule will be addressed by the Commission at a later stage
JAR-OPS 3.1240 Training programmes	
An operator shall establish, maintain and conduct approved training programmes which enable the operator's personnel to take appropriate action to prevent acts of unlawful interference such as sabotage or unlawful seizure of helicopters and to minimise the consequences of such events should they occur.	This rule will be addressed by the Commission at a later stage
JAR-OPS 3.1245 Reporting acts of unlawful interference	
Following an act of unlawful interference on board a helicopter the commander or, in his absence the operator, shall submit, without delay, a report of such an act to the designated local authority and the Authority in the State of the operator.	CAT.GEN.100
JAR-OPS 3.1250 Helicopter search procedure checklist	
An operator shall ensure that all helicopters carry a checklist of the procedures to be followed for that type in searching for concealed weapons, explosives or other dangerous devices. [An operator shall also support the checklist with guidance on the course of action to be taken should a bomb or suspicious object be found.]	This rule will be addressed by the Commission at a later stage
JAR-OPS 3.1255 Flight crew compartment security	
If installed, the flight crew compartment door on all helicopters operated for the purpose of carrying passengers shall be capable of being locked from within the compartment in order to prevent unauthorised access.	OR.OPS.SEC.100.H