

070

**OPERATIONAL
PROCEDURES**

**COMMERCIAL PILOT LICENSE (A)
(OPERATIONAL PROCEDURES)**

JAR-FCL REF NO	LEARNING OBJECTIVES	REMARKS
071 01 01 00	<p><u>Annex 6 parts I, II and III</u></p> <ul style="list-style-type: none"> – State the definitions contained in Chapter 1. – Explain the applicability of Annex 6. (Chapter 2). – Define the operator’s responsibilities. (Chapter 3). – State the pilot’s actions in the event of an emergency violation of local regulations or procedures. (Chapter 3). – Annex 6 Part 1 Chapter 4 – FLIGHT OPERATIONS <ul style="list-style-type: none"> – State the requirement to be satisfied for the issue of an Air Operator’s Certificate. – State the essential qualifications necessary for a person to legally taxi aircraft. – List the factors considered when establishing minimum flight altitude. – List the factors accounted for when establishing aerodrome operating minimum. – Detail the content of a passenger briefing in respect of emergency equipment and exits. (See Chapter 6 also) – State the flight preparation forms to be completed before flight. – Describe the requirements regarding the operational flight plan. – Specify the conditions to be satisfied in order for an aerodrome to be considered suitable as a take-off alternate aerodrome. – State that, when under IFR, it is unnecessary to specify a destination alternate. – Specify the weather conditions for VFR/IFR flights. – State the fuel and oil requirements for flight, for propeller-driven aeroplanes or turbo-jet aeroplanes, with and without a destination alternate nominated. 	<p>Specific attention must be given to the definitions of:</p> <ul style="list-style-type: none"> a) Decision altitude/height b) Minimum descent altitude/height c) Obstacle clearance altitude/height

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	<ul style="list-style-type: none"> - State the considerations accounted for in the fuel and oil calculation. - State the rules to be obeyed when refueling with passengers on board. - Detail the rules regarding the carriage and use of oxygen. (Also Chapter 6). - Annex 6 Part 1 Chapter 4 <ul style="list-style-type: none"> - State the rules for the compliance/non compliance with aerodrome operating minima. - State the rules applicable to operating flight-crew members. - State the rules regarding the changes to an ATS flight plan made in flight. - Define the duties of the pilot-in-command. - Define the duties of a flight operations officer. - Annex 6 Part 1 Chapter 5 – AEROPLANE PERFORMANCE & OPERATING LIMITATIONS <ul style="list-style-type: none"> - List the factors that may significantly affect the aeroplane performance. - State the limitations on take-off and landing mass. - State the aeroplane performance operating limitations (see attachment C) - Annex 6 Part 1 Chapter 6 – AEROPLANE INSTRUMENTS, EQUIPMENT AND FLIGHT DOCUMENTS <ul style="list-style-type: none"> - List the contents of the aircraft operating manual. - Describe the recommended minimum medical kits and fire extinguishers. - List the mandatory documents to be carried in flight. - Specify the colours and markings used to indicate break-in points. - List the parameters to be recorded by the flight data recorder. (<i>FDR</i>) - State the rules relative to the retention of data recorded by flight data recorders. - State the rules regarding the location, construction, installation and operation of flight data 	<p>See Performance – Aeroplanes 032</p>

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	<p>recorders.</p> <ul style="list-style-type: none"> - State the objectives of the cockpit voice recorder. - List the minimum equipment required for VFR flight/IFR flight/night VFR flight. - State the maximum distance, from a suitable landing aerodrome, that an aircraft may operate over water without the carriage of additional life saving equipment. - Specify the life saving and survival equipment to be carried on over water flights, when necessary, and on flights over designated land areas. - Detail the external and internal light requirements for an aeroplane operating at night. - State the conditions that require the following equipment to be fitted <ul style="list-style-type: none"> - a. Weather Radar b. Radiation Indicator c. Machmeter d. GPWS - Define the function of the minimum equipment list (MEL) and the master minimum equipment list (MMEL) - Summarise the contents of attachment G (supplementary to Annex 6) - Annex 6 Part 1 Chapter 7 – Aeroplane Communication and Navigation equipment <ul style="list-style-type: none"> - State the minimum requirements to be fulfilled by radio comms. equipment for an aeroplane. - State the minimum navigation equipment requirements for an aeroplane. - Annex 6 Part 1 Chapter 8 – aeroplane maintenance <ul style="list-style-type: none"> - Detail the items to be checked in the servicing record, by the pilot-in-command, before acceptance for flight. - Annex 6 Part 1 Chapter 9 – aeroplane flight crew <ul style="list-style-type: none"> - State the occasions on which a Flight Engineer/Flight Navigator must be included in the crew. - State the minimum recent experience necessary for a pilot to be assigned as pilot-in-command/co-pilot. 	

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	<ul style="list-style-type: none"> - Specify the knowledge and experience of a route or route segment, required by a pilot, before assignment as pilot-in-command. - State the requirements for proficiency checks on a pilot. - Annex 6 Part 1 Chapter 11 – manuals, logs and records <ul style="list-style-type: none"> - List the contents of the operations manual. - List the contents of the journey logbook. - List the details of the safety and survival equipment on board which, in the event of an emergency, are to be transmitted to the rescue co-ordination centre. - Annex 6 Part 1 Chapter 13 – security <ul style="list-style-type: none"> - State the rules relevant to the security of the flight crew compartment. - State the action of the pilot-in-command on landing after an act of unlawful interference. 	
071 01 02 00	<u>JAR –OPS Requirements</u>	
071 01 02 01	General Requirements	
	State the operator’s requirements regarding a quality system	JAR OPS 1.035
	State the operator’s responsibility regarding the training requirements of crew members who are neither flight crew nor cabin crew	JAR OPS 1.040
	State the regulations concerning the carriage of persons on an aeroplane	JAR OPS 1.075
	State the operator’s and commander’s responsibilities regarding admission to the flight deck and the carriage of unauthorised persons or cargo	JAR OPS 1.100
	State the operators responsibility concerning portable electronic devices	JAR OPS 1.110
	State the regulations concerning endangering safety	JAR OPS 1.120
	List the documents to be carried on each flight	To be checked with air law
		JAR OPS 1.125

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	<p>State the operator's responsibility regarding manuals to be carried</p> <p>List the additional information and forms to be carried on board</p> <p>List the items of information to be retained on the ground by the operator</p> <p>State the operator's responsibility regarding inspections</p> <p>State the responsibility of the operator and the commander regarding the production of and access to records and documents</p> <p>State the operator's responsibility regarding the preservation of documentation and recordings</p> <p>Define the terms used in leasing</p> <p>State the responsibility and requirements of each party in various cases, e.g.</p> <p style="padding-left: 40px;">Between JAA operators</p> <p style="padding-left: 40px;">Between JAA and others</p>	<p>JAR OPS 1.130</p> <p>JAR OPS 1.135</p> <p>JAR OPS 1.140</p> <p>Relevant documents</p> <p>JAR OPS 1.145</p> <p>JAR OPS 1.150</p> <p>JAR OPS 1.155</p> <p>JAR OPS 1.165</p>
071 01 02 02	<p>Operator certification and supervision requirements</p> <p>State the rules applicable to Air Operator Certification</p> <p>State the conditions to be met for the issue or revalidation of an AOC</p>	<p>JAR OPS 1.175</p> <p>JAR OPS 1.180</p>
071 01 02 03	<p>Operational procedures requirements</p> <p>State the operator's responsibilities concerning:</p> <p style="padding-left: 40px;">Operational control and supervision</p> <p style="padding-left: 40px;">Provision of an Operations Manual</p> <p style="padding-left: 40px;">Training of personnel</p> <p style="padding-left: 40px;">Establishing ground and aircrew standard procedures</p> <p style="padding-left: 40px;">Use of air traffic services</p> <p style="padding-left: 40px;">Use of instrument departure and approach procedures</p>	<p>JAR OPS 1.195</p> <p>JAR OPS 1.200</p> <p>JAR OPS 1.205</p> <p>JAR OPS 1.210</p> <p>JAR OPS 1.215</p> <p>JAR OPS 1.230</p>

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071 01 02 04	<p>State the requirements for carrying Persons with Reduced Mobility (PRMs)</p> <p>State the operator's responsibilities for the carriage of inadmissible passengers, deportees or persons in custody</p> <p>State the requirements for the stowage of baggage and cargo in the passenger cabin</p> <p>State the requirements regarding passenger seating and emergency evacuation</p> <p>State the requirements for the securing of passenger cabin and galley(s)</p> <p> All weather operations requirements: low visibility operations</p> <p>Define the criteria to be taken into consideration for the classification of aeroplanes</p> <p>Define the following terms</p> <p> Circling</p> <p> Low visibility procedures</p> <p> Low visibility take off</p> <p> Flight control system</p> <p> Visual approach</p> <p>State the requirements for Special VFR</p> <p> _ State the minimum visibility and separation from cloud for VFR in each class of airspace</p>	<p>JAR OPS 1.265</p> <p>JAR OPS 1.270</p> <p>JAR OPS 1.280</p> <p>JAR OS 1.325</p> <p>JAR OPS App 2 to 1.430</p> <p>JAR OPS 1.435</p> <p>JAR OPS 1.465</p> <p>JAR OPS App 1 to 1.465</p>
071 01 02 05	<p>Instrument and equipment requirements</p> <p>State the requirements regarding circuit protection devices</p> <p>State the requirements regarding windshield wipers</p> <p>State the circumstances in which airborne weather radar equipment is not compulsory</p>	<p>JAR OPS 1.635</p> <p>JAR OPS 1.645</p> <p>JAR OPS 1.670</p>

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	State the conditions under which a crew member interphone system and public address system are mandatory	JAR OPS 1.690
071 01 02 06	State the requirements regarding internal doors and curtains Communication and navigation equipment requirements	JAR OPS 1.735
	State the requirements regarding the provision of an audio selector panel	JAR OPS 1.855
071 01 02 07	List the requirements for radio equipment when flying under VFR by reference to visual landmarks Aeroplane maintenance	JAR OPS 1.860
	Define the meanings of the terms: Pre-flight inspection Approved standard Approved by the authority	JAR OPS 1.880
	State the general requirements for the approval of a maintenance system	JAR OPS 1.885
	State the general requirements for ensuring that maintenance is carried out to an appropriate standard	JAR OPS 1.895
	Describe the operation of a maintenance quality system	JAR OPS 1.900
	Describe the operator's responsibility regarding an operator's Maintenance Management exposition	JAR OPS 1.905
	Describe the operator's responsibility regarding an aeroplane maintenance programme	JAR OPS 1.910
	Describe the operator's responsibility regarding the continued validity of the AOC in respect of the maintenance system	JAR OPS 1.930
071 02 00 00	Describe the procedure concerning the Equivalent Safety Case	JAR OPS 1.935
	<u>SPECIAL OPERATIONAL PROCEDURES AND HAZARDS (GENERAL ASPECTS)</u>	
071 02 01 00	<u>Minimum Equipment List (MEL)</u>	
	State in which document the MEL can be found	

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071 02 02 00	<p>Define the MEL and MMEL</p> <p>Identify the responsibilities of the Operator and the Authority with regard to the MEL and MMEL</p> <p>State the responsibility of the commander with regard to MEL</p> <p>Aeroplane Flight Manual</p> <p style="padding-left: 40px;">State the legal requirement concerning the AFM</p> <p style="padding-left: 40px;">List the items to be included in the AFM</p> <p><u>Aeroplane De-icing/Anti-icing</u></p> <p>Identify the atmospheric conditions resulting in ice, snow, slush or frost formation on aircraft surfaces whilst on the ground</p> <p>State the difference between De-icing and Anti-icing</p> <p>Describe the effects of ice formation on aircraft on the ground and in the air</p> <p>Define the operator's responsibilities with regard to ground and flight icing</p> <p>Define the commander's responsibilities with regard to ground and flight icing</p> <p>Locate where a commander can find information on De-icing and Anti-icing</p> <p>Define the types of De-icing/Anti-icing on the ground</p> <p>Define and describe the different stages of a De-icing/Anti-icing procedure</p> <p>Describe the procedure when the fluid protection time is exceeded</p> <p>List the types of De-icing/Anti-icing fluids available</p>	<p>JAR-OPS 1.030 (See also Annex 6 attachment G)</p> <p>Annex 8 para 9.5</p> <p>JAR 25.1581</p> <p>See also 050 09 01 01-3</p> <p>JAR-OPS 1.345 and 1.675</p> <p>JAR-OPS 1.1045 and IEM OPS 1.1045(c) Part A para 8.2.4</p> <p>Fluid, hot air, sweeping, taxi through</p> <p>Type I/II</p>

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071 02 05 00	<p>Power reduction (minimum height, minimum climb gradient, obstacle clearance after engine failure)</p> <p>Approach Procedures</p> <ul style="list-style-type: none"> State the minimum range from the threshold from which final landing configuration takes precedence over noise abatement Describe the limitation on turns for visual or instrument approaches Explain how reduced power/reduced drag approaches are achieved List the adverse operating conditions in which noise abatement approach procedures should not be required <p>Landing Procedures</p> <ul style="list-style-type: none"> State the rules regarding <ul style="list-style-type: none"> Use of reverse thrust on landing Use of displaced thresholds <p><u>Fire/Smoke</u></p> <ul style="list-style-type: none"> List the actions to be taken in the event of a carburettor fire List the actions to be taken in the event of an engine fire and of smoke in the cockpit Identify the different types of extinguishant and the type of fire on which each one may be used Describe the precautions to be considered in the application of fire extinguishant Describe the different fire detection systems Describe the effects and problems associated with smoke in the <ul style="list-style-type: none"> Cockpit Passenger cabin & toilets cargo compartments 	<p>AMC OPS 1.790</p> <p>JAR 25.857</p> <p>Class of cargo compartment</p>

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071 02 06 00	<p>State the number of extinguishers to be on board an aircraft (JAR-OPS)</p> <p>Identify the appropriate hand held extinguishers to use in</p> <ul style="list-style-type: none"> Cockpit passenger cabin & toilets cargo compartments <p>Specify the number of crash axes or crowbars to be on board an aircraft (JAR-OPS)</p> <p>Describe the problems and safety precautions following overheated brakes after landing or an abandoned take-off</p> <p><u>Decompression of pressurised cabin</u></p> <p>Describe the minimum requirements for supplementary oxygen to be supplied in pressurised aeroplanes during and following an emergency descent</p> <p>Describe the differences between slow and rapid or explosive decompression</p> <p>Indicate how to detect a slow decompression or an automatic pressurisation system failure</p> <p>Describe the effects on aircraft occupants of</p> <ul style="list-style-type: none"> a slow decompression a rapid or explosive decompression <p>Describe the actions required following</p> <ul style="list-style-type: none"> a slow decompression a rapid or explosive decompression 	JAR-OPS 1.790
071 02 07 00	<p><u>Windshear and Microburst</u></p> <p>Define the meaning of the term "low altitude windshear"</p>	See 050 09 03 00 – 03 and 050 09 04 04

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071 02 08 00	<p>Describe:</p> <ul style="list-style-type: none"> Vertical windshear Horizontal windshear Up and down draught windshear <p>Identify the meteorological phenomena associated with windshear</p> <p>Describe the most likely locations for windshear encounters associated with the aircraft in relation to:</p> <ul style="list-style-type: none"> Cb/Ts Weather fronts Inversions Hills and structures <p>Describe the effects of and actions required following an abrupt decrease in headwind component, or increase in tailwind component whilst making an approach to land</p> <p>Describe the effects of and actions required following an abrupt increase in headwind component or decrease in tailwind component during a departure</p> <p>Describe the effects of and actions required following entry into a strong downdraught windshear</p> <p>Describe a microburst and its effects</p> <p><u>Wake Turbulence</u></p> <ul style="list-style-type: none"> Describe the meaning of the term “wake turbulence” Describe how wake turbulence is created Describe tip vortices circulation Explain when vortex generation begins and ends Describe vortex circulation on the ground with and without crosswind 	<p>(energy loss situation)</p> <p>(energy gain situation)</p> <p>PANS RAC DOC 4444 Part V and Air Traffic Services Planning Manual (DOC 9426) Part II Sect 5</p>

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	<p>List the three main factors which combine to give the strongest vortices (heavy, clean, slow)</p> <p>Describe the wind conditions which are worst for wake turbulence near the ground</p> <p>Compare aeroplane and helicopter vortex generation (helicopter vortices more intense per kg of gross mass)</p> <p>List the ICAO wake turbulence aircraft categories according to their maximum certificated take off mass</p> <p>Wake turbulence separation</p> <p> Landing</p> <p> State the minimum separation for landing</p> <p> Medium behind a heavy</p> <p> Light behind a medium or heavy</p> <p> Full runway take off</p> <p> State the minimum separation for take-off for a:</p> <p> Light or medium behind a heavy</p> <p> Light behind a medium</p> <p> Using:</p> <p> The same runway</p> <p> Parallel runways separated by less than 760m</p> <p> Crossing or parallel runways when the projected flight path of the second aircraft crossed the first at the same level or within 1000ft lower</p> <p>Intermediate take off</p> <p> State the minimum separation to be applied when aircraft are using a runway with a displaced landing threshold for:</p> <p> A departing Light or Medium following a Heavy arrival and a departing Light following a Medium</p>	

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071 02 09 00	<p>arrival</p> <p>An arriving Light or Medium following a Heavy departure and an arriving Light following a medium departure if the projected flight paths cross</p> <p>Opposite direction</p> <p>State the minimum separation for</p> <p>A Light or Medium taking off or landing after a Heavy which has made a low or missed approach in the opposite direction, or</p> <p>A Light taking-off or landing after a Medium which has made a low or missed approach in the opposite direction</p> <p>(the same criteria apply on parallel runways separated by less than 760m)</p> <p><u>Security</u></p> <p>Define the responsibilities of the operator concerning:</p> <p>Training programmes</p> <p>Reporting acts of unlawful interference</p> <p>Aeroplane search procedures</p> <p>Define the responsibility of the commander concerning reporting requirements following an act of unlawful interference</p> <p>Unlawful interference (in flight procedures)</p> <p>Describe the commander's responsibilities concerning:</p> <p>notifying the appropriate ATS unit</p> <p>operation of SSR</p> <p>departing from assigned track and/or cruising level</p> <p>selection of cruising level (if no applicable regional procedures have been established)</p>	<p>JAR-OPS 1 Subpart 5 (see also 01 01 02 02)</p> <p>JAR-OPS 1.1245 ICAO Annex 17 (attachment)</p>

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071 02 10 00	<p>action required on being requested by an ATS unit to confirm SSR code and ATS interpretation response</p> <p>Describe the different measures to be taken by the State in which the unlawful interference occurs</p> <p>Describe the flight-deck door characteristics of a transport passenger aeroplane (JAR-OPS)</p> <p>State who is permitted to carry weapons on board an aircraft and in which circumstances</p> <p>Describe the procedure to be followed in the case of a bomb on board an aircraft</p> <p><u>Emergency and precautionary landings</u></p> <p>Define an emergency landing/ditching</p> <p>Describe a ditching procedure</p> <p>Describe a precautionary landing</p> <p>Describe the occasions that require an emergency landing/ditching</p> <p>Explain the factors to be considered when deciding to make a precautionary/emergency landing or ditching</p> <p>Describe the passenger briefing to be given before making a precautionary/emergency landing or ditching (including evacuation)</p> <p>Detail the aeroplane evacuation procedure</p> <p>Describe the actions and responsibilities of crew members after landing</p>	
071 02 11 00	<p><u>Fuel Jettisoning</u></p> <p>Describe the certification requirements for a fuel jettisoning system</p> <p>State the legal requirements governing the jettisoning of fuel</p> <p>Describe the safety precautions when jettisoning fuel concerning (smoking, HF radio, electrics, flight pattern, operation of flaps/slots/slats, weather conditions)</p> <p>Describe basic fuel jettisoning procedures concerning, ATC, altitude/location, monitoring flow</p>	<p>JAR 25 Annex 2 chap 3 para 3.1.4</p>

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071 02 12 00	<p><u>Transport of Dangerous Goods by Air</u></p> <p>State the requirement for aircraft operators to comply with the International Standards and Recommended Practices governing the safe transport of dangerous goods by air</p> <p>List the definitions and define the terminology associated with the transport of dangerous goods</p> <p>Identify the technical instructions and their applicability to the classification and safe transport of dangerous goods by air</p> <p>Identify the items that would otherwise be classed as dangerous goods but which are excluded from the requirements</p> <p>State the provisions relating to these exclusions</p> <p>State the limitations on transport of dangerous goods by air</p> <p>Describe the general requirements for packaging, labelling and marking</p> <p>State the responsibility of the shipper and operator regarding the dangerous goods transport document</p> <p>State the function of the acceptance checklist</p> <p>Describe the restrictions on the carriage of dangerous goods</p> <p>Describe the information to be provided by the operator to:</p> <ul style="list-style-type: none"> The pilot in command and flight crew Passengers Other persons <p>Describe the information to be provided by the pilot in command to aerodrome authorities</p>	<p>ICAO Annex 18</p> <p>JAR-OPS 1Subpart R Sections 1 and 2</p> <p>Annex 18 chap 1</p> <p>JAR-OPS 1.1170</p> <p>JAR-OPS 1.1160</p> <p>IEM OPS 1.11160</p> <p>Annex 18 chap 4</p> <p>JAR-OPS 1.1165</p> <p>Annex 18 chap 5 and 6</p> <p>JAR-OPS 1.1175</p> <p>Annex 18 chap 7</p> <p>JAR-OPS 1.1185</p> <p>Annex 18 Chap 8</p> <p>JAR-OPS 1.1195</p> <p>JAR-OPS 1.1210</p> <p>Annex 18 chap 9</p> <p>JAR-OPS1.1215</p> <p>Annex 18 chap 9</p> <p>JAR-OPS 1.1215</p> <p>Annex 18 chap 9</p> <p>JAR-OPS 1.1215</p>

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071 02 13 00	<p>Describe the information to be provided by the operator in the event of an aircraft accident or incident</p> <p>Describe the operators general responsibility regarding the training of personnel</p> <p>State the requirements concerning accident and incident reporting</p> <p><u>Contaminated Runways</u></p> <p>Define a contaminated runway, a damp runway, a wet runway, a dry runway</p> <p>Describe the types of contamination (stating the minimum depth to be considered contaminated)</p> <p>State the maximum depth of each contaminant that will preclude operations</p> <p>Describe aquaplaning (hydroplaning) and its effect</p> <p>Describe the different types of hydroplaning</p> <p>Define and calculate the hydroplaning speed</p> <p>List and describe the methods used to communicate braking action</p> <p>Define braking co-efficient of friction and state that which is considered normal for a wet runway</p> <p>Describe the effect that contamination and/or a low co-efficient of friction has on performance calculations</p> <p>Describe the JAR-OPS requirements concerning landing on wet or contaminated runways</p> <p>Describe the precautions to take when landing in heavy rain</p> <p>Interpret from a snowtam the contamination and braking action on a runway</p>	<p>JAR-OPS 1.1220</p> <p>Annex 18 chap 12</p> <p>JAR-OPS 1.1225</p> <p>JAR-OPS 1.480 (a) (2)</p> <p>JAR 25x1592</p> <p>Annex 14 attachment A para 6/7, Annex 15 app 2</p> <p>See 032 03 01 04</p>