

## **Appendix III Commercial Pilot Licence written examination syllabus**

### **Air law**

Candidates are required to have a broad knowledge of the purpose and content of the following documents or groups of documents:

Civil Aviation Act 2000.

Civil Aviation Rules (CARs).

Civil Aviation Advisory Circulars (ACs).

Papua New Guinea Aeronautical Information Publication (PNGAIP):  
Volume 1 and AGA  
Flight Supplement

Aeronautical Charts

### **Civil Aviation Act 2000**

Candidates are required to have knowledge of the following sections of the Act:

60 – Obligation to notify all accidents and incidents

63 – Duties of Pilot-in-Command

64 – Duties of Pilot-in-Command and operator during emergencies

271 – Powers of aircraft Pilot-in-Command

277 – Operating an aircraft in a careless manner

280 – Acting without necessary aviation document

318 – Minister may prohibit smoking on air route.

### **Civil Aviation Rules (CARs)**

Candidate must demonstrate knowledge of the following Rules parts. The level of knowledge for each section of the Rules is specified by the following grading.

#### **Level Standard**

- |   |   |
|---|---|
| 1 | Candidates are to thoroughly understand the operational provisions of this essential knowledge. |
| 2 | Candidates are to have a working understanding of this knowledge.                               |

### **CAR PART 1 – Definitions and Abbreviations**

#### **Definitions**

Candidates must demonstrate a working understanding (Level 2) of the meaning of the following terms:

Accident	Act
Aerobatic flight	Aerodrome
Aerodrome control service	Aerodrome Control Tower
Aerodrome Flight Information service	Aerodrome operational area

Aerodrome traffic	Aerodrome traffic circuit
Aerodrome traffic zone	Aeronautical Information Circular
Aeronautical Information Publication	Aeronautical information service
Aeroplane	AIP service
AIP Supplement	Aircraft
Aircraft category	Aircraft Flight Manual
Aircraft Operation	Aircraft radio station
Air Traffic	Air Traffic advisory service
Air Traffic Control (ATC) service	Air Traffic Control unit
Air Traffic service	Air Transport operation
Airworthiness certificate	Airworthiness directive
Airworthy condition	Alerting service
Altitude	Apron
Area control centre	Area Control service
ATC clearance	ATC instruction
ATS unit	Aviation Medical Assessor
Cargo	Ceiling
Certificated organisation	Class 3(a) fuel
Class 3(b) fuel	Clearance limit
Clearway	Commercial Transport Operation
Configuration	Control area
Controlled airspace	Controlled flight
Control zone	Conversion instruction
Cost sharing flight	Co-pilot
Crew member	Cross-country flight
Cruising level	Dangerous goods
Day	Designated Medical Examiner
Director	Disabled passenger
Document	Dual flight time
Final reserve fuel	Fit and proper person
Flight Examiner	Flight following flight plan
Flight following service	Flight Information region
Flight instruction	Flight level
Flight manual	Flight plan
Flight time	Fully functioning flight controls
General Aviation Area	Height
Helicopter	Heliport
Hover	Incident
Instrument meteorological conditions	Instrument time
Lifed	Maintenance
Manoeuvring area	Manufacturer's maintenance programme
Movement area	Night

NOTAM	Operable
Operate	Operational flight plan
Owner	Passenger
Pilot-in-command	Rating
Regular air transport passenger service	Remote aerodrome
SARTIME	SEIFR Passenger Operation
SIGMET information	Synthetic flight trainer
Take-off distance available	Take-off run available
Take-off weight	Taxi
Traffic load	Type
Unlawful interference	Valid
Visibility	Visual meteorological conditions
VFR flight	

### Abbreviations

Candidates must have an awareness (generally Level 2) of the abbreviations listed in CAR Part 1.

### CAR PART 12 – Accidents Incidents and Statistics

Section		Level
	<b>General</b>	
12.3	Definitions	1
	<b>Notification, Investigation and Reporting, of Occurrences</b>	
12.51	Notification of an accident	1
12.53	Details of an accident	1
12.55	Notification of an incident	1
12.57	Details of an incident	1
	<b>Preservation of Aircraft, its Contents and Records</b>	
12.101	Access to aircraft involved in an accident	2

### CAR PART 43 – General Maintenance Rules

Section		Level
	<b>General</b>	
43.3	Definitions	2
	<b>Maintenance</b>	
43.51	Persons to perform maintenance	1
Appendix A	Pilot maintenance	1

### CAR PART 61 – Pilot Licences and Ratings

Section		Level
	<b>General</b>	
61.3	Definitions and abbreviations	2

## **CAR PART 61 – Pilot Licences and Ratings**

<b>Section</b>		<b>Level</b>
61.10	Production of licence or rating	2
61.13	Written examinations - prerequisites and grades	2
61.15	Cheating or other unauthorised conduct	1
61.17	Flight test prerequisites	2
61.19	Flight tests - general procedures	2
61.23	Status of authorised flight examiners	2
61.25	Pilot logbooks – general	1
61.27	Pilot logbooks – crediting flight time	1
61.31	Medical requirements	1
61.33	Recent flight experience	1
61.35	Biennial Flight Review	1
61.37	Use of lower licence	1
61.39	Examination for continued fitness or proficiency	2
61.41	Offences involving substances of abuse	1
	<b>Aircraft Type Ratings</b>	
61.53	Eligibility requirements	1
61.55	Aircraft type ratings	2
	<b>Aircraft Class Ratings</b>	
61.103	Eligibility requirements	2
61.105	Aircraft class ratings	1
	<b>Commercial Pilot Licences</b>	
61.173	Eligibility requirements	1
61.177	Flight experience - aeroplane	2
61.179	Flight experience - helicopter	2
61.185	Privileges and limitations	2
61.187	Currency requirements	2
	<b>Aerobatic Flight Rating</b>	
61.401	Eligibility requirements	2
61.405	Privileges and limitations	2
61.407	Recency requirements	2

## **CAR PART 67 – Medical Standards and Certification**

### **Section**

#### **General**

67.03	Definitions and abbreviations.	2
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	<b>Medical Certification</b>	
67.55	Issue of Medical Certificate	2
67.57	Duration of Medical Certificate	1
67.59	Extension of period	2
	<b>Medical Standards</b>	
67.105	Class 1 Medical Certificate	2
	<b>Responsibilities of medical certificate holders</b>	
67.203	Changes in medical conditions	1
67.205	Continuance of functions	1

### **CAR PART 71 - Designation and Classification Of Airspace**

<b>Section</b>		<b>Level</b>
	<b>General</b>	
71.13	Visual reporting points	2
71.15	QNH zones	2
	<b>Requirements for Designated Airspace</b>	
71.51	Control areas	1
71.53	Control zones	1
71.55	Aerodrome traffic zones	1
71.57	Mandatory broadcast zones	1
71.63	Temporary airspace	1
	<b>Airspace Classification</b>	
71.103	Class B airspace	1
71.105	Class C airspace	1
71.107	Class D airspace	1
71.109	Class E airspace	1
71.111	Class F airspace	1
71.113	Class G airspace	1

### **CAR PART 73 - Special Use Airspace**

<b>Section</b>		<b>Level</b>
	<b>Airspace Designation</b>	
73.53	Restricted areas	1
73.55	Danger areas	1
73.57	Prohibited areas	1
73.59	Low flying areas	1
73.61	Parachute drop zones	1

73.63	Temporary airspace	1
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## **CAR PART 91 - General Operating and Flight Rules**

<b>Section</b>		<b>Level</b>
	<b>General</b>	
91.5	Compliance with crew instructions and commands	1
91.7	Portable electronic devices	
91.9	Carriage and discharge of firearms	1
	<b>Operating Rules</b>	
91.101	Aircraft airworthiness	1
91.103	Restricted category airworthiness certificate - operating limitations	1
91.105	Special category airworthiness certificate - operating limitations	1
91.109	Aircraft flight manual	1
91.111	Documents to be carried	1
91.112	Requirements for licence and ratings	1
91.117	Designation of pilot-in-command	1
91.125	Simulated instrument flight	1
91.127	Use of aerodromes	1
91.129	Restricted danger and prohibited areas	1
91.131	Low flying areas	1
91.133	Volcanic hazard areas	1
91.135	Mandatory Broadcast Zones	1
	<b>General Flight Rules</b>	
91.201	Safety of aircraft	1
91.203	Authority of pilot-in-command	1
91.205	Crew members at stations	1
91.207	Occupation of seats and wearing of restraints	1
91.209	Use of oxygen equipment	1
91.211	Passenger briefing	1
91.213	Carry-on baggage	1
91.215	Carriage of cargo	1
91.217	Preflight action	1
91.219	Familiarity with operating limitations and emergency equipment	1
91.221	Flying equipment and operating information	1
91.223	Operating on and in the vicinity of an aerodrome	1

## CAR PART 91 - General Operating and Flight Rules

Section		Level
91.225	Radio communications for operations on or in the vicinity of aerodromes	1
91.227	Operating near other aircraft	1
91.229	Right-of-way rules	1
91.233	Aircraft lights	1
91.235	Dropping of objects	1
91.237	Aircraft speed	1
91.239	Altimeter settings	1
91.241	Compliance with ATC clearances and instructions	1
91.243	ATC light signals	1
91.245	Operations in classified and designated airspace	1
91.249	Use of SSR transponder and altitude reporting equipment	1
91.251	Aircraft callsigns	1
	<b>Visual Flight Rules</b>	
91.301	VFR meteorological minima	1
91.303	Special VFR weather minima	1
91.305	Fuel requirements for flight under VFR	1
91.307	VFR flight plan	1
91.309	Position reports	1
91.311	Minimum heights for VFR flights	1
91.313	VFR cruising altitude and flight level	1
	<b>Instrument and Equipment Requirements</b>	
91.501	General requirements	1
91.505	Seating and restraints	1
91.509	Minimum instruments and equipment	1
91.511	Night instruments and equipment	1
91.513	VFR communication equipment	1
91.515	Communication and navigation equipment -VFR over water	1
91.525	Flights over water	1
91.529	Emergency locator transmitter	1
91.533	Oxygen for non-pressurised aircraft	1
91.537	Inoperative instruments and equipment	1
91.541	SSR transponder and altitude reporting equipment	1
	<b>Operator Maintenance Requirements</b>	
91.605	Required inspections	2

## **CAR PART 91 - General Operating and Flight Rules**

<b>Section</b>		<b>Level</b>
91.607	Inspection planning latitude	1
91.609	Radio station tests and inspections	2
91.611	Altimeter system and altitude reporting equipment tests and inspections	1
91.612	Compass Calibration	2
91.613	SSR Transponder tests and inspections	2
91.615	Emergency locator transmitter tests and inspections	2
91.616	Emergency equipment tests and inspections	2
91.617	Operation after maintenance	1
91.619	Maintenance review	2
91.629	Technical log	1
	<b>Special Flight Operations</b>	
91.701	Aerobatic flight	2
91.703	Aviation events	2
91.705	Parachute-drop operations	2
91.709	Towing gliders	2
91.711	Towing objects other than gliders	2

## **CAR PART 92 – Carriage of Dangerous Goods**

<b>Section</b>		<b>Level</b>
	<b>General</b>	
92.3	Definitions	2
92.7	General carriage requirements	1
92.9	Forbidden dangerous goods	1
92.11	Exceptions	1
	<b>Operator</b>	
92.153	Acceptance of dangerous goods	1
92.157	Aircraft loading restrictions	1
92.161	Separation, segregation, and security	1
92.173	Information to Pilot-in-Command	1
92.179	Information to passengers	1
	<b>Training</b>	
92.203	Dangerous goods training programmes	1
92.205	Recurrent training	1

## **CAR PART 93 – Special Aerodrome Traffic Rules and Noise Abatement Procedures**

<b>Section</b>		<b>Level</b>
	<b>Port Moresby International Airport</b>	
93.53	Aerodrome traffic circuit/Port Moresby International Airport	2
93.55	Restrictions on flight training	2
93.57	Noise abatement procedures	2

## **CAR PART 122 – Flight and Duty Time Limitations**

<b>Section</b>		<b>Level</b>
	<b>General</b>	
122.3	Definitions	2
122.5	General limitations	2
	<b>Responsibilities</b>	
122.53	Crew member responsibilities	1
	<b>Flight and Duty Time Limitations – One or Two Pilot Flight Crew</b>	
122.103	Flight time limitations	1
122.105	Duty time limitations and Rest Periods	1
	<b>Flight and Duty Time Limitations – Tour Duty Pilot</b>	
122.203	Flight time limitations	1
122.205	Duty time limitations	1
122.207	Rest period	1
	<b>Flight and Duty Time Limitations – Helicopter Pilots</b>	
*122.303	Minimum rest periods	1
*122.305	Duty time limitations	1
*122.307	Flight time limitations	1
*122.309	Type of operation limitations	1
	<b>* Helicopter Pilots Only</b>	

## **CAR PART 125 – Air Transport Operations – Medium Aeroplanes**

<b>Section</b>		<b>Level</b>
	<b>Operating Limitations and Meteorological Requirements</b>	
125.153	Meteorological information	1
125.155	Meteorological conditions – VFR flight	1
	<b>Performance</b>	
125.205	General aeroplane performance	2

## **CAR PART 125 – Air Transport Operations – Medium Aeroplanes**

<b>Section</b>		<b>Level</b>
	<b>Weight and Balance</b>	
125.305	Aeroplane load limitations	1
	<b>Instruments and Equipment</b>	
125.357	Night Flight	1
	<b>Crew Member Requirements</b>	
125.503	Flight crew qualifications and assignment of duties	1
125.505	Pilot in command type experience requirements	1
125.605	Flight crew competency checks and recurrent training	1
	<b>Fatigue of Flight Crew</b>	
125.801	Flight and duty limitations	1
	<b>Manuals, Logs, and Records</b>	
125.855	Documents to be carried	1
125.857	Operational record	1

## **CAR PART 133 – Helicopter External Load Operations**

<b>Section</b>		<b>Level</b>
	<b>General</b>	
*133.3	Definitions	1
*133.5	Pilot licence requirements	1
	<b>Operating Rules and Related Requirements</b>	
*133.51	Minimum safe height	1
*133.53	Carriage of persons	1
*133.55	Third party risk	1
*133.57	Weight limitations	1
*133.59	VFR	1
*133.61	Night operations	1
*133.63	Carriage of loads	1
*133.65	Dangerous goods	1
*133.67	Flight characteristics	1
*133.69	Operations over congested areas	1
*133.71	Helicopter winching and rappelling operations	1

**CAR PART 133 – Helicopter External Load Operations**

<b>Section</b>		<b>Level</b>
*133.73	Supplementary crew member	1
*133.75	Crew member competency	1
	<b>Instruments and Equipment</b>	
*133.255	External load equipment	1
*133.257	Quick release devices	1

**\* Helicopter Pilots Only****CAR PART 135 - Air Transport Operations - Small Aeroplanes and Helicopters**

<b>Section</b>		<b>Level</b>
	<b>General</b>	
135.3	Definitions and abbreviations	2
	<b>Operating rules</b>	
135.53	Aircraft airworthiness	1
135.55	Common language	1
135.59	Flight preparation and flight planning	1
135.63	Fuel	1
135.65	Cockpit check	1
135.67	Passenger safety	1
135.69	Manipulation of controls	1
135.73	Refuelling and defuelling operations	1
135.75	Fuel spillage	1
135.77	Use of aerodromes	1
135.83	Minimum height for VFR flights	1
135.85	Flights over water	1
*135.89	Operations over congested areas	1
*135.91	Helicopter sling loads	1
	<b>Operating Limitations and Meteorological Requirements</b>	
135.153	Meteorological information	1
135.155	Meteorological conditions - VFR flight	1
	<b>Performance</b>	

## **CAR PART 135 - Air Transport Operations - Small Aeroplanes and Helicopters**

<b>Section</b>		<b>Level</b>
135.205	General aeroplane performance	2
135.207	Take-off limitations	1
135.209	Runway surface and slope correction factors	1
135.221	Landing distance – dry runway	1
135.223	Landing distance – contaminated runways	1
135.225	Steep approach and short landing techniques	1
	<b>Weight and Balance</b>	
135.303	Goods, passenger, and baggage weights	1
135.305	Aircraft load limitations	1
	<b>Instruments and Equipment</b>	
135.353	General	1
135.355	Night flight	1
135.359	Flights Over Water	1
135.361	Restraints	1
	<b>Maintenance</b>	
135.405	Maintenance review	1
	<b>Crew Member Requirements</b>	
135.503	Flight crew qualifications and assignment of duties	1
135.505	Pilot-in-Command type experience requirements	1
	<b>Crew Member Competency and Recurrent Training Requirements</b>	
135.605	Flight crew competency checks and recurrent training	1
135.607	Crew member – grace provisions	1
	<b>Fatigue of Flight Crew</b>	
135.801	Flight and duty time limitations	1
	<b>Manuals, Logs and Records</b>	
135.855	Documents to be carried	1
	<b>Helicopter Performance – General</b>	
*135.903	Definitions and abbreviations	2

## **CAR PART 135 - Air Transport Operations - Small Aeroplanes and Helicopters**

<b>Section</b>		<b>Level</b>
*135.911	Significant factors	1
*135.913	Obstacles	1
<b>Performance Class 2 Helicopter</b>		
*135.1003	Take-off limitations	1
*135.1005	Take-off flight path	1
*135.1007	En-route critical engine inoperative	1
*135.1009	Landing	1
<b>Performance Class 3 Helicopter</b>		
*135.1053	Take-off flight path	1
*135.1055	En-route	1
*135.1057	Landing	1

### **\* Helicopter Pilots Only**

#### **Advisory Circulars**

Candidates must have a working knowledge of the following Subparts of the current Advisory Circular:

AC 12-1 Notification of Accidents and Incidents  
AC 61-6 Commercial Pilot licence.

#### **PNG Aeronautical Information Publication**

Candidates for the Commercial Pilot licence must have a satisfactory working knowledge of the information contained in the PNGAIP Volume 1, particularly the following sections:

**GEN Section**  
**AGA Section**  
**COM Section**  
**MET Section**  
**SAR Section**

#### **Flight Supplement**

Candidates for the Commercial Pilot licence must have a satisfactory working knowledge of the information contained in the PNGAIP Flight Supplement, particularly the following:

Prohibited, Restricted and Danger Areas  
Aerodrome landing charts  
Arrival/departure procedures  
Emergency procedures