

Advisory Circular AC66-2.20

Aircraft Maintenance Engineer
Licence -Examination Subject 20
AME Air Law

Issue1 31 October 2024

GENERAL

Civil Aviation Authority Advisory Circulars (AC) contain information about standards, practices and procedures that the Director has found to be an Acceptable Means of Compliance (AMC) with the associated rule.

An AMC is not intended to be the only means of compliance with a rule, and consideration will be given to other methods of compliance that may be presented to the Director. When new standards, practices or procedures are found to be acceptable, they will be added to the appropriate Advisory Circular.

PURPOSE

This Advisory Circular provides AMC for the syllabus content in respect of written examinations for Subject 20. (AME Air Law).

This Advisory Circular also provides GM for recommended study material in respect of the examination syllabus in this Advisory Circular.

RELATED CAR

This Advisory Circular relates specifically to Civil Aviation Rule Part 66 Subpart B – Aircraft Maintenance Engineer Licence.

General information on Aircraft Maintenance Engineer Licence (AMEL) examination requirements is contained in Advisory Circular AC66-1.

CHANGE NOTICE

This AC, replaces the Original AC dated 01 June 2015.

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Rule 66.57 Eligibility Requirements

Rule 66.57(a)(2) requires an applicant for an AMEL to have passed written examinations, that are acceptable to the Director, relevant to the duties and responsibilities of an aircraft maintenance engineer in the category of licence sought.

The written examinations acceptable to the Director for Subject 20 (AME -Air Law) should comply with the syllabus contained in this Advisory Circular. Each examination will cover all topics and may sample any of the sub-topics.

The new syllabus has been developed after extensive industry consultation and the objectives reflect the knowledge required of current technology and international best work practice.

EXAMINATION OVERVIEW – SUBJECT 20

Subject 20 (AME Air Law) is closed book, written examination. The pass mark is 75 percent.

Application to sit an examination may be made directly online to ASPEQ. Refer to CASA Website https://casapng.gov.pg/personnel-licensing/Examinations-and-Testing/ for examination information.

General Examining Objective

The objective of the examination is to determine that the applicant for an AMEL has adequate knowledge of Electrical Fundamentals to permit the proper performance, supervision and certification of aircraft maintenance at a level commensurate with the privileges of the various AMEL categories.

Knowledge Levels

LEVEL 1: A familiarisation with the principal elements of the subject. Objectives: The applicant should:

- 1. be familiar with the basic elements of the subject.
- 2. be able to give simple descriptions of the whole subject, using common words and examples.
- 3. be able to use typical terms.

LEVEL 2: A general knowledge of the theoretical and practical aspects of the subject.

An ability to apply the knowledge.

Objectives: The applicant should:

- 1. be able to understand the theoretical fundamentals of the subject.
- 2. be able to give a general description of the subject using, as appropriate, typical examples.
- 3. be able to use mathematical formulae in conjunction with physical laws describing the subject.
- 4. be able to read and understand sketches, drawings and schematics describing the subject.
- 5. be able to apply his/her knowledge in a practical manner using detailed procedures.

LEVEL 3: A detailed knowledge of the theoretical and practical aspects of the subject.

A capacity to combine and apply the separate elements of knowledge in a logical and comprehensive manner.

Objectives: The applicant should:

- 1. know the theory of the subject and the interrelationships with other subjects.
- 2. be able to give a detailed description of the subject using theoretical fundamentals and specific examples.

- 3. understand and be able to use mathematical formulae related to the subject.
- 4. be able to read, understand and prepare sketches, simple drawings and schematics describing the subject.

5. be able to apply his/her knowledge in a practical manner using manufacturer's instructions.

Recommended Study Material

The publication list below provides guidance material for suitable study references for the overall syllabus content. However, applicants may have to conduct further research using other references or sources (including the internet) or attend a formal course in order to gain a comprehensive understanding of all sub-topics in the syllabus.

Where applicable, publication references have been placed below each main topic or sub topic heading in this syllabus.

Publication List (Study Ref.)

1	List of Civil Aviation Rules (CARs)	See CASA PNG website for free download of all CASA PNG Civil Aviation Rules from Part 1 to Part 183.
2	Civil Aviation Act 2000	See CASA PNG website for a copy.
3	CAA Website	www.casapng.gov.pg

Syllabus Layout

Topic Numbering – left hand column

The syllabus is set out by topics, each of which is identified by a single-digit number. Each topic is divided into a number of sub-topics, which are identified by two-digit numbers: the first and second digits of which refer to the topic and the sub-topic respectively.

Each sub-topic is further sub-divided into one or more sub-sub-topics, which are identified by three-digit numbers. Where applicable, sub-sub-topics may be further subdivided into paragraphs that are identified by four/five digit alphanumeric sequences.

The three-digit sub-sub-topic numbers shown in the left hand column are used in the 'knowledge deficiency reports' to provide feedback on individual examinations.

Objective description – middle column

The middle column objectively describes each sub-sub-topic by stating, in plain language, its subject matter and the type of performance or activity required. The objectives are intended to be simple, unambiguous, and clearly-focussed, outcomes to aid learning.

Knowledge levels – right hand column

The right hand column specifies the knowledge level for each sub-topic heading. The three levels of knowledge used in this syllabus are described above. Note that the knowledge levels indicate the depth of knowledge required NOT its safety importance.

Syllabus -Subject 20 (AME - Air Law)

1. Rule Part 1 – Definitions, Abbreviations and Units of Measurement

1. Def	1. Definitions and Abbreviations – Part 1	
1.1. Do	efinitions	
	Study Ref. 1	
1.1.1	Define the meaning of the following definitions and describe the relevance of each to aircraft maintenance: a. Accident b. Aeronautical product c. Aeroplane d. Aircraft e. Aircraft category f. Aircraft engine g. Aircraft radio station h. Air operation i. Air transport operation j. Airworthiness certificate k. Airworthiness data l. Airworthiness directive m. Airworthy condition n. Appliance o. Commercial agricultural aircraft operation p. Commercial transport operation q. Component r. Condition monitored maintenance s. Date of manufacture t. Defect u. Design change v. Detailed inspection w. Document x. Emergency airworthiness directive y. Emergency locator transmitter z. Empty weight aa. Fit and proper person bb. Flight manual cc. Flight time dd. ICAO Contracting State ee. IFR flight ff. Incident gg. Instructions for continuing airworthiness hh. Lifed	1

1.1.2	Define the meaning of the following definitions and describe the relevance of each to	1
	aircraft maintenance:	
	a. Maintenance	
	b. Maintenance logbook	
	c. Maintenance manual	
	d. Major modification	
	e. Major repair	
	f. Manufacturer's maintenance programme	
	g. Maximum certificated take-off weight	
	h. Maximum zero fuel weight	
	i. Modification	
	j. Papua New Guinea registered aircraft	
	k. Papua New Guinea register of aircraft	
	Papua New Guinea certificate of registration	
1	m. Operable	
1	n. Operating cycle	
	o. Overhaul	
1	p. Owner	
	q. Pressure altitude	
	r. Priority part	
	s. Product	
	t. Progressive inspection	
	u. Propeller	
	v. Rating	
	w. Repair	
	x. Required inspection	
	y. Rotorcraft	
	z. Routine inspection	
	aa. Specification	
	bb. State of design	
	cc. Technical arrangement	
	dd. Technical data	
	ee. Technical log	
	ff. Time in service	
	gg. Turbine powered	
	hh. Type	
	ii. Valid	
	jj. VFR flight	
	"	
1.1.3	Describe what is meant by the term "standard part" and be able to relate aeronautical	2
	specifications to the various standards setting organisations associated with aircraft	
1	design, manufacture and maintenance.	
12 Ah	breviations	
1.2. AU	DI CYIQUOIIO	

	Study Ref. 1	
1.2.1	Interpret the following abbreviations as they pertain to aircraft maintenance and operation: a. AD, ACAS, ADF, AEDRS b. DME c. ELT, ETOPS, EPIRB d. FAR e. GPS, GPWS f. HF g. ICAO h. IFR, IMC i. MCTOW, MEL j. PNGPMA, PNGTSO k. QFE, QNH l. STPD, STC m. TCAS, TSO, TAWS, TBO n. UHF o. VFR, VMC, VSWR	1

2. Rule Part 12 - Accidents, Incidents and Statistics

2. Acc	cidents, Incidents and Statistics – Part 12		
2.1. De	efinitions		
	Study Ref.1		
2.1.1	Distinguish between the following terms relating to aircraft accidents and incidents and give practical examples of where each may be encountered in an aviation maintenance or operational environment: a. Aircraft incident b. Defect incident c. Occurrence d. Serious incident e. Serious injury	2	
2.2. No	2.2. Notification, Investigation and Reporting of Occurrences		
	Study Ref. 1		
2.2.1	Describe the following in regard to incidents required to be notified, details to be provided and investigation reports to be submitted: a. The correct CASA form to use to report incidents, accidents to CASA b. Who has responsibility for notification and providing details of a defect incident	2	

	 c. Time limitations for notifying the Authority and providing details of a defect incident d. Time limitations for the submission of reports relating to the investigation of occurrences 	
2.2.2	e. Where guidance material may be found for conducting an incident investigation	3
	From given examples of defects, determine if a requirement exists to submit a defect report to CASA.	
2.3. Pr	eservation of Aircraft, Contents and Records	
	Study Ref. 2 Subpart C	
2.3.1	Describe the following conditions relating to an engineer's attendance at an incident or accident scene:	3
	 Requirements relating to the securing and preservation of wreckage, cargo or equipment 	
	b. Removal of items from the scene c. Moving the aircraft	
	d. Taking of notes and sketches	
2.3.2	Describe the requirements and time limitations relating to the preservation of records relating to the operation of maintenance of aircraft that have been subject to an accident or incident.	3
2.3.3	Describe the requirements relating to the retention of products and components that have been the subject of a defect incident report to CASA.	3
2.4. Inc	cident Investigation	
	Study Ref. 4	
2.4.1	Describe the following criteria relating to the reporting and investigation of incidents: a. Report findings	2
	b. Analysis of findings	
	c. Causal factors d. Organisation failure definitions	
	e. Selection of failure codes	
2.4.2	Describe the latent failure models and how they may be applied to occurrence investigation and the prevention of incidents.	1

3.Aeronautical Parts and Supplies

3. Ae	. Aeronautical Parts and Supplies	
3.1. A	cceptable Parts	
	Study Ref. AC 000-1	1
3.1.1	Describe common Papua New Guinea and overseas release documentation that would normally identify the acceptability and airworthiness status of the following: a. Engines b. Propellers and rotors c. Finite life components d. Other components	2
3.1.2	Describe the conditions and criteria that would make a part or product unacceptable for	2

1	use on an aircraft.]
3.1.3		2
	Identify additional overseas reference information that may be used to establish the authenticity of parts.	
3.1.4	authenticity of parts.	2
	Describe the information that would normally provide traceability of parts through the	
3.1.5	supply train and provide purchasers with confidence in the authenticity of these parts.	2
0.1.0	Describe the factors to be taken into account when dealing with a supplier and	_
0.4.0	establishing the acceptability of parts.	
3.1.6	Describe special requirements relating to the following:	2
	a. Records supplied with parts	
	b. Life-limited componentsc. Salvaged parts	
	d. Unsalvageable parts	
	e. Surplus parts	
3.2. Ex	-Military Parts	
	Study Ref. 000-1	
3.2.1	Describe special conditions and limitations pertaining to the use of ex-military parts	2
3.2.2	Describe the conditions relating to the interchangeability of ex-military and civilian parts.	2
3.3. Po	oling of Parts	
	Study Ref. AC 000-1	
3.3.1	Describe special conditions and precautions pertaining to the pooling of parts by aircraft operators.	1
3.4. Ins	stallation of Parts	
	Study Ref AC 000-1	
3.4.1	Detail the conditions and responsibilities relating to the eligibility and installation of parts.	3
3.5. Dis	sposal of Parts	
	Study Ref. AC 000-1	
3.5.1	Describe the special requirements relating to the disposal of aircraft parts with particular	2
	emphasis on the prevention of finite-life components re-entering service.	
3.6. St	orage Conditions of Aeronautical Supplies	
	Study Ref. AC 000-1	
3.6.1	Describe the general storage conditions for aeronautical supplies	1
3.6.2	Describe the particular storage conditions for specific materials and parts.	1
3.6.3	Describe the particular storage requirements relating to aircraft piston engines:	1
3.6.4	Describe the particular storage requirements relating to aircraft turbine engines:	1
3.6.5	Describe the particular storage requirements relating to aircraft propellers:	1
3.7. Ae	ronautical Stores System	
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	Study Ref. AC 000-1	
3.7.1	Describe the operation of a typical stores system with particular regard to the following items and activities: a. Segregation of non-approved items b. Identification labels and documentation c. Control of items in a quarantine store d. Control of items in a bond store e. Receipt inspection f. Rejection of items failing conformity g. Use of technical directives	1
3.7.2	Describe the use of the following stores records giving typical information that may be found on the records and practical examples of where each record could be used: a. Shelf life register b. Special storage conditions and inspections while in storage c. Stock recording d. Issue documentation register e. Goods-in register f. Technical directive register	1
3.7.3	Describe the following: a. Despatch inspection b. Release documentation c. Duties and responsibilities of stores personnel	1

4. Rule Part 21 - Certification of Products and Parts

4. Certification of Products and Parts – Part 21		
4.1. D	efinitions	
4.1.1	Study Ref.1 Define what is meant by a 'critical part' and give examples of where these items may be found on aeroplanes and rotorcraft.	2
4.1.2	Describe the relevance and importance of a 'type certificate' (TC) and identify the	2

	documents and data a TC normally includes.	
4.1.3	Describe the meaning of the term 'required design change' and give examples of when the Director may require design changes to be made to a product.	1
4.2. Ty	pe Certificates and Type Acceptance Certificates	
	Study Refs.1	
4.2.1	Distinguish between a type certificate and a type acceptance certificate (TAC) with particular regard to the following: a. Relevance to aircraft on the Papua New Guinea register b. Issue requirements relating to both certificates c. Categories of TC and TAC d. Application criteria e. Certificate issue requirements f. Airworthiness requirements relating to a TAC for a "first of type", imported aircraft g. Data to be supplied when importing a "first of type" aircraft h. Identification of equivalent standards for TAC i. Ownership of both certificates j. Information contained on a type certificate data sheet (TCDS)	2
4.2.2	Download an FAA Type Certificate and, identify the make and model of aircraft having type acceptance certificates and determine the original overseas type certificate ID.	1
4.2.3	Identify the various foreign aircraft type design certification standards or airworthiness codes acceptable to the Director for first-of-type import into PNG as per Part 21 Appendix B listing.	1
4.3. De	sign Changes	
4.3.1	Study Ref.1 Describe what constitutes a design change and how it may be approved or accepted by the Director.	2
4.3.2	Describe the requirements for the approval of design and manufacturing organisations certified under Rule Parts 146 and 148.	1
4.5. Sta	andard, Restricted Category Airworthiness Certificates	
	Study Refs.1	
4.5.1	State the categories of airworthiness certificates that may be granted by the Director and describe the classification requirements of each.	1

4.5.2	Describe the requirements for the issue of each category of airworthiness certificate including the following criteria: a. Type, or type acceptance certification b. Conformity of modifications or repairs c. AD compliance d. Flight manual; CASA acceptance, applicability, document origin and revision e. Maintenance documentation f. Identification of aircraft and aircraft components g. Registration and registration markings h. Required maintenance prior to the issue of the certificate, including lapsed time limitations i. Overall physical condition of the aircraft	1
	 j. Long distance ferry flights k. Duration and limitations of the certificate l. CASA application, notification periods, inspection and certification requirements m. The applicable forms required for the type of application. 	
4.6. Sp	pecial Category Airworthiness Certificates	
4.6.1	Study Refs.1 State the purpose and issue requirements relating to the three special category airworthiness certificates. Give examples of when CAA would most likely issue each certificate.	1
4.6.2	State the limitations and restrictions relating to the operation of an aircraft on a special category airworthiness certificate.	1
4.7. Sp	pecial Category - Special Flight Permit /Permit to Fly Airworthiness Certificates	
4.7.1	Study Ref.1 Describe the following criteria relating to special flight permit airworthiness certificates and special flight permit continuing airworthiness certificates: a. Purpose b. Limitations and restrictions c. AD compliance or non-compliance requirements d. Conditions relating to ferry flights e. Continuing authorisation certificate f. Certificate of fitness for flight g. Wording of a certificate of fitness for flight h. Inspection of the aircraft prior to issue of the certificate	1
4.7.2	Describe the following criteria relating to Permit to Fly airworthiness certificates and special flight permit continuing airworthiness certificates: i. Purpose j. Limitations and restrictions k. AD compliance or non-compliance requirements I.Inspection of the aircraft prior to issue of the certificate	
4.8. M	aterials, Parts, Processes and Appliances	

	Study Ref.1	
4.8.1	Describe the requirements relating to the installation of materials, parts and appliances into a type-certificated product various, with regard to the following: a. Authorisation by the holder of type certificate b. Manufacture during maintenance c. Use of CASA Form One d. Use of release notes e. Use of standard parts f. Use of imported parts	2
4.9. lde	entification of Products and Parts	
	Study Ref.1	
4.9.1	Describe the need for products and parts to be properly identified.	2
4.9.2	Describe the criteria for identifying aircraft, engines and propellers, with regard to the following: a. General marking requirements b. Fireproof marking methods c. Location of aircraft identification plates d. Identification of modular engines e. Identification of propellers, blades and hubs f. Minimum identification information g. Removal, alteration, and replacement of identification information h. Removal and reinstallation of data plates during certain maintenance operations i. Identification of critical parts j. Identification of replacement or modified parts	2

5.Rule Part 39 - Airworthiness Directives (ADs)

5. Airworthiness Directives (ADs) – Part 39		
6.1. Pu	rpose and Origin of Airworthiness Directives	
5.1.1	Study Ref. 1 Read and study PNG Rule Part 39-Airworthiness Directives and how ADs are promulgated.	2
5.2. Al	O Compliance	
5.2.1	Study Refs. 1 Detail the responsibilities of an aircraft operator in relation to compliance with ADs, with particular regard to the following: a. Compliance date b. On-going compliance c. Alternative means of compliance (AMOC) d. Aircraft in excess of 5,700 kg MCTOW	3
5.2.2	Download an FAA AD from the FAA website and, extract pertinent information relating to AD compliance for a given aircraft or aircraft component.	3

6. Rule Part 43 - General Maintenance Rules

6. Gei	neral Maintenance Rules – Part 43	
6.1. Pe	ersons to Perform Maintenance	
	Study Refs. 1	
6.1.1	Determine the qualifications and/or conditions relating to a person performing maintenance on an aircraft.	3
6.1.2	Identify the qualifications and conditions relating to persons, other than appropriately rated LAMEs or equivalent, performing maintenance on an aircraft.	2
6.1.3	Detail the requirements for the direct supervision of maintenance in terms of: a. physical presence on the work site b. active participation in the work process c. knowing when the work is being undertaken d. inspection of work at crucial stages e. extent and nature of supervision	3
6.2. Pe	erformance of Maintenance	
6.2.1	Study Refs. 1 Detail the conditions relating to familiarity with the aircraft or component on which maintenance is being performed. This should include conditions that go beyond simply holding a type or group rating for the aircraft or component and should include the following:	3
	 a. Liaison with other competent staff b. Use of publications c. Continuation training d. Level of previous experience 	
6.2.2	Detail the following requirements associated with the performance of maintenance: a. Housing and facilities. b. Methods, techniques and practices. c. Materials and parts. d. Tools, equipment and test equipment. e. Test equipment and special test equipment specified by the manufacturer. f. Compliance with airworthiness requirements and limitations. g. On the completion of maintenance. h. Duty time requirements.	3
6.2.3	Detail the criteria in relation to equivalent methods, techniques and practices that are acceptable to the Director and identify foreign source documentation that has been accepted as "standard practice" for the maintenance of PNG aircraft and components.	2
6.2.4	Describe the information that is typically contained in the airworthiness limitations section (ATA Chapter 4) of a manufacturer's 'instructions for continued airworthiness'.	2
6.2.5	Detail the criteria that apply to materials, parts and appliances in relation to determining its original or properly modified condition.	3
6.2.6	Detail the criteria that apply to the performance of maintenance on aircraft under Part 145, with particular respect to the following: a. Air transport operations	3

I	b. MCTOW]
	c. Seating configuration	
0.07	c. Godang conniguration	
6.2.7	Detail criteria that apply to the performance of maintenance aircraft or component	3
	maintenance activities that shall be performed under Part 145.	
6.2.8		2
	Describe the aircraft or component maintenance activities, requirements and limitations that specifically apply to aircraft issued with a special category airworthiness certificate.	
	that specifically apply to afficiant issued with a special category all worthlifess certificate.	
6.3. Re	cording of Overhaul	
	Study Refs. 1	
6.3.1	Detail the conditions and limitations relating to the certification of an overhauled part or	3
0.3.1	product, in particular, the recording of zero life.	3
6.4. No	n-Destructive Testing	
	Study Refs. 1, AC 43-13 NDT	
6.4.1	Describe the qualification requirements relating to persons authorised to perform each of	2
0.4.1	the non-destructive testing methods in both Part 43 and Part 145 organisations.	
6.5. Ma	intenance Records	
	Study Refs. 1	
6.5.1	Detail the requirements to record information in the appropriate maintenance logbook	3
0.0.1	after maintenance including the details of:	
	a. Maintenance performed.	
	b. Component changes completed.	
	c. Test results. d. Altimeter tests.	
	e. AD complied with.	
	f. Location and facility where the maintenance was completed.	
	g. Reason for performing the maintenance.	
6.5.2	Describe the use of maintenance records with particular regard to the following:	2
0.5.2	Describe the use of maintenance records with particular regard to the following: a. Logbook summary and cross referencing when using maintenance documentation	
	such as worksheets.	
	b. Technical log entries relating to defect rectification and inspection.	
	c. Recording of personal information to identify those performing maintenance.	
	d. Time in service recorders, and the tampering of these recorders.e. Legibility, accuracy and permanency of entries.	
	e. Legibility, accuracy and permanency of entries. f. Use of loose-leaf log entries or similar records.	
	g. Computerised records.	
C C Do	loop to comice	
0.0. Re	lease-to-service	
	Study Refs. 1	
6.6.1	Detail persons who are authorised to certify 'release-to-service' after the performance of	3
	maintenance on aircraft or components.	
6.6.2	Detail conditions and requirements that must be complied with for a 'release-to-service'	3
0.0.2	certification to be made, including:	
	a. Operational flight checks.	
	b. Modifications and repairs.	
6.6.3	When a 'release-to-service' statement is made and certified, describe the implied condition	2
	, , , , , , , , , , , , , , , , , , , ,	

6.6.4	of the aircraft or aircraft component.	3
0.0.1	Determine the requirements of a legally correct 'release-to-service' statement after	Ü
	maintenance that includes the following: a. Prescribed wording.	
	b. Details of the certifying person.	
6.6.5	c. Correct format.	3
6.6.6	Detail the requirements when an aircraft is released-to-service with inoperative equipment.	3
	Detail the requirements when the existence of defects on an aircraft or component does not permit certification of release-to-service after maintenance.	
6.6.7	Detail the relieved from duty requirements, before a release to service certification can be	3
6.7. D	uplicate Safety Inspection of Controls	
	Study Refs. 1	
6.7.1	Detail the maintenance tasks performed on a control system that requires the performance of a duplicate safety inspection.	3
6.7.2	Detail the persons who may perform the first and second inspections on a control system.	3
6.7.3	Describe what would be termed 'adequate training, knowledge and experience' for a person selected to perform the second inspection on a control system.	2
6.7.4	Detail the types of control systems on an aeroplane, rotorcraft, powerplant, and propeller that would require a duplicate safety inspection if disturbed.	3
6.7.5	Detail the extent to which a control system must be inspected if disturbed.	3
6.7.6	Describe, with practical examples, the items to be inspected, when checking a control system for the following: a. Functions correctly. b. Assembled correctly. c. Required locking mechanisms are in place.	3
6.7.7	Determine the requirements of a legally correct statement for the certification of a duplicate safety inspection that includes the following: a. Prescribed wording b. Scope and extent of the safety inspection c. Details of the certifying persons d. Correct format	3
6.8. Er	ngine Performance Checks	
	Study Refs. 1	
6.8.1	Describe the requirements for engine performance checks on piston and turbine engines after maintenance.	2
6.8.2	State the items to be tested or observed during engine performance checks.	1
6.9. R	eview of Airworthiness and Maintenance Review	
	Study Ref. 1	
6.9.1	Describe the qualifications of persons authorised to conduct: a. Review of airworthiness.b. Maintenance Review.	2
6.9.2	Describe the specific requirements when carrying out a review of airworthiness.	2

1		Ī
6.9.3	Describe the requirements of a legally correct logbook statement for the completion of a review of airworthiness.	1
6.9.4	Describe how defects must be handled when found as a result of a review of airworthiness.	2
6.9.5	Describe the difference between review of airworthiness and a maintenance review. State where each may be performed.	2
6.9.6	Distinguish between aircraft requiring a maintenance review and those that may have a review of airworthiness.	2
6.10. C	ertifying Conformity following Major Modification or Major Repair	
	Study Refs. 1	
6.10.1	Describe using examples of, major modifications and major repairs.	2
6.10.2	Detail the qualifications of a person permitted to certify conformity following a major modification or major repair.	3
6.10.3	Describe the requirements to be considered when a conformity inspection and certification is performed.	2
6.11. F	orm CAA 337	
	Study Refs. 1	
6.11.1	Identify who is responsible for determining if a conformity inspection is required for repairs or modifications carried out on an aircraft.	2
6.11.2	Identify the ways aircraft and other type certified products could be changed.	2
6.11.3	Specify the occasions when a form CA 337 must be used.	2
6.11.4	Describe using practical examples what is considered to be technical data.	2
6.11.5	Distinguish between acceptable and approved data.	2
6.11.6	Describe the process by which technical data may be approved.	1
6.11.7	Identify organisations and persons who may approve data and describe the requirements for a statement of compliance.	1
6.11.8	Describe with specific examples what is considered to be acceptable technical data.	2
6.11.9	Describe specific technical data requirements relating to avionics modifications.	1
6.11.10	Describe the following criteria in relation to the Form CAA 337: a. Who would normally raise the form b. What information is contained on the form c. Persons who are required to sign the form d. Distribution of the form, including any specified time frames	2
6.12. W	/eight and Balance Control/Procedures	

Study Refs. 1]
Note: reference AC66-2.4 Topic 9 for weight and balance theory and calculations	
6.12.1 Detail the requirements for aeroplane weight and balance control.	3
6.12.2 Describe the following criteria relating to weight and balance control: a. Weighing standards b. Weighing periods c. Reasons for a re-weigh d. Recalculation of empty weight changes e. Completion and use of the form CAA 2102 f. Completion and use of form CAA 2173	2
6.13. On Condition Maintenance	
6.13.1 Study Ref. 1 Describe the following maintenance terms: a. Airworthiness Limitations b. Hard-time maintenance c. On-condition maintenance	2
6.13.2 Describe examples and limitations associated with each of these forms of maintenance.	1
6.13.3 Describe how the condition of a component may be assessed under an on-condition maintenance plan.	1
6.14. Engine and Propeller Overhaul and Testing	
Study Ref. 20; 34 Subpart G	
6.14.1 Detail the overhaul requirements for engines and propellers fitted to air transport aircraft.	3
6.14.2 In regard to engine and propeller overhaul, describe the following requirements: a. Overhaul procedures b. Part 91 – Operation considerations	2
6.15. Parts Documentation – CAA Form One	
Study Ref. 15 Subpart C;18	
6.15.1 Describe the purpose of a CAA Form 1.	2
6.15.2 Describe the limitations on the use of the CAA Form 1.	2
6.15.3 Identify the information that is contained on a CAA Form 1.	2
6.15.4 Describe the distribution of the CAA Form 1.	2
6.16. CAA Form Two	
Study Ref. 15 Subpart C;18	
6.16.1 Describe the purpose of a CAA Form 2.	2
6.16.2 Describe the limitations on the use of the CAA Form 2	2
6.16.3 Identify the information and certification that is contained on a CAA Form 2.	2
6.16.4 Describe the distribution of the CAA Form 2.	2
6.17. Emergency Equipment	

6.17.1	Study Ref. 21; 34 Subpart G Describe the following criteria in regard to the maintenance of emergency equipment:	2
	a. Maintenance requirements and documentation b. Checks and inspections for first aid kits	
	c. Checks and inspections for floatation equipment	
	d. Checks and inspections for portable fire extinguishers	
6.18. C	alibration of Compasses	
	Study Ref 1	
	Note: reference AC66-2.16 for compass calibration theory and calculations	
6.18.1	Detail the requirements for the calibration of compasses.	3
6.18.2	Describe the following criteria in regard to the calibration of compasses	2
	a. Occasions for calibration b. Maintenance records and certification	
6.19. A	│ .ircraft Radio Station – Form CAA 2129	
	Study Ref. 1	-
6.19.1	Define the approval levels for radio equipment	2
6.19.2	Describe the following criteria in regard to the use of the form CAA 2129	2
	a. Raising a new form b. Radio equipment to be included	
	c. Determination and recording of approval levels	
	d. Certification	
6.19.3	Extract equipment approval information from source data contained in the relevant AC.	1
6.20. E	mergency Locator Transmitters	
	Study Refs. 1	
	Describe the following criteria in relation to emergency locator transmitters: a. The requirement to have a serviceable ELT in an aircraft	
6.20.1	b. Installation, mounting and connection requirements	2
	c. Antenna locations on aeroplanes and helicopters d. Approved battery types	
	e. Battery life and life recording	
	f. Authorised ELT test times and frequency	
	g. Certification of ELT installations h. Operational check intervals	
	i. Bench testing intervals	
	j. Requirements for changing or charging batteriesk. Operation of an aircraft with the ELT temporarily removed	
	All Operation of an another man and 221 temperating removed	
6.21. N	 on-Aeronautical Lead Acid Batteries	
	Study Ref. 1	1
6.21.1	Describe the conditions relating to the use of non-aeronautical lead acid batteries in aircraft.	1
6.21.2	Identify acceptable standards for the development modifications to use non-aeronautical batteries.	1

7.Rule Part 47 - Aircraft Registration and Marking

7. Aire	craft Registration and Marking – Part 47	
8.1. Ai	rcraft Registration and Certification	
	Study Refs. 1	
7.1.1	State the requirements relating to the legal operation of a Papua New Guinea or foreign registered aircraft.	1
7.1.2	Describe the conditions relating to the lawful ownership of an aircraft.	2
7.1.3	Describe the provisions pertaining to the operation of hired aircraft.	2
7.1.4	Describe the following in regard to the registration of aircraft in Papua New Guinea: a. Requirements for registration b. Application for registration c. Change of ownership d. Carriage of the certificate of registration e. Period in which to acquire a certificate of registration f. Duration of the certificate of registration g. Cancellation of registration	1
7.2. Ai	rcraft Marking	
	Study Refs. 1	
7.2.1	Describe the following requirements relating to the registration marking of aircraft: a. General requirements for marking aircraft b. Nationality and registration marks c. Identifiable paint schemes and markings d. Display of marks e. Location of marks f. Specifications of marks g. Measurement of marks	2
7.3. ld	entification Plate	
	Study Ref. 1	
8.3.1	Describe the information that must be contained on an identification plate.	1
8.3.2	Describe the conditions relating to the construction and display of aircraft registration plates.	1

8. Rule Part 66 - Aircraft Maintenance Engineer Licensing

8. Aircraft Maintenance Engineer Licensing – Part 66	
8.1. AME Licensing – General and Licence	

8.1.1 Describe the following criteria relating to general AME licensing requirements: a. Categories of licence and certificates b. Application process c. Issue requirements d. Duration of licences and certificates e. Examinations f. Cheating or other unauthorised conduct g. Offences involving alcohol or drugs h. Medical requirements 8.1.2 Describe the following criteria relating to the AME license a. Eligibility requirements b. Examinations required for the issue of a basic licence in the respective categories c. Validity period for examination passes d. Required experience for the grant of additional categories f. Reduced experience for the grant of additional categories f. Reduced experience concession for additional categories g. Concurrency of experience h. Privileges and limitations of a licence h. Privileges 8.1.3 Define the component or systems that form the basis of each category demarcation. 2 Describe the additional avionics privileges that may be associated with the various categories 8.1.4 Describe the additional avionics privileges that may be associated with the various categories 8.1.5 Describe the following criteria relating to AME licence ratings:			-
a. Categories of licence and certificates b. Application process c. Issue requirements d. Duration of licences and certificates e. Examinations f. Cheating or other unauthorised conduct g. Offences involving alcohol or drugs h. Medical requirements 8.1.2 Describe the following criteria relating to the AME license a. Eligibility requirements b. Examinations required for the issue of a basic licence in the respective categories c. Validity period for examination passes d. Required experience for the grant of additional categories f. Reduced experience concession for additional categories g. Concurrency of experience h. Privileges and limitations of a licence h. Privileges and limitations of a licence i. Familiantly requirements relating to the supervision and certification of maintenance on aircraft components j. Conditions relating to the use of a licence and ratings in a Part 145 organisation k. Qualification to use special test equipment l. Recent experience requirements m. Category demarcations 8.1.3 Define the component or systems that form the basis of each category demarcation. 8.1.4 Describe the additional avionics privileges that may be associated with the various categories 8.1.5 Describe giving examples of: a. 'Line replaceable unit (LRU)' b. 'Special test equipment'. 8.2. Aircraft Maintenance Engineer Ratings 8.2.1 Describe the following criteria relating to AME licence ratings: c. Structure of rating groups d. Difference between a group and type rating e. Eligibility requirements f. Practical experience requirements g. Practical Training Record h. Identification of pre-requisite basic examinations i. Examination requirements j. Course requirements l. Technical oral examination m. Component ratings n. Rating privileges 8.2.2 Describe the aircraft, component or systems that form the basis of each rating group. 2 Describe the specific aircraft, components or systems that are classified under the various		Study Refs. 1	
a. Eligibility requirements b. Examinations required for the issue of a basic licence in the respective categories c. Validity period for examination passes d. Required experience for the grant of al clicence e. Required experience for the grant of additional categories f. Reduced experience concession for additional categories g. Concurrency of experience h. Privileges and limitations of al icence i. Familiarity requirements relating to the supervision and certification of maintenance on aircraft or aircraft components j. Conditions relating to the use of a licence and ratings in a Part 145 organisation k. Qualification to use special test equipment l. Recent experience requirements m. Category demarcations 8.1.3 Define the component or systems that form the basis of each category demarcation. 8.1.4 Describe the additional avionics privileges that may be associated with the various categories 8.1.5 Describe, giving examples of: a. 'Line replaceable unit (LRU)' b. 'Special test equipment'. 8.2. Aircraft Maintenance Engineer Ratings 8.2.1 Describe the following criteria relating to AME licence ratings: c. Structure of rating groups d. Difference between a group and type rating e. Eligibility requirements f. Practical experience requirements g. Practical Training Record h. Identification of pre-requisite basic examinations i. Examination requirements k. Validity of rating courses l. Technical oral examination m. Component ratings n. Rating privileges 8.2.2 Describe the aircraft, component or systems that form the basis of each rating group. 2 8.2.3 Describe the specific aircraft, components or systems that are classified under the various	8.1.1	 a. Categories of licence and certificates b. Application process c. Issue requirements d. Duration of licences and certificates e. Examinations f. Cheating or other unauthorised conduct g. Offences involving alcohol or drugs 	2
8.1.4 Describe the additional avionics privileges that may be associated with the various categories 8.1.5 Describe, giving examples of:	8.1.2	 a. Eligibility requirements b. Examinations required for the issue of a basic licence in the respective categories c. Validity period for examination passes d. Required experience for the grant of a licence e. Required experience for the grant of additional categories f. Reduced experience concession for additional categories g. Concurrency of experience h. Privileges and limitations of a licence i. Familiarity requirements relating to the supervision and certification of maintenance on aircraft or aircraft components j. Conditions relating to the use of a licence and ratings in a Part 145 organisation k. Qualification to use special test equipment l. Recent experience requirements 	2
categories Describe, giving examples of:	8.1.3	Define the component or systems that form the basis of each category demarcation.	2
a. 'Line replaceable unit (LRU)' b. 'Special test equipment'. 8.2. Aircraft Maintenance Engineer Ratings Study Refs. 1 8.2.1 Describe the following criteria relating to AME licence ratings: c. Structure of rating groups d. Difference between a group and type rating e. Eligibility requirements f. Practical experience requirements g. Practical Training Record h. Identification of pre-requisite basic examinations i. Examination requirements j. Course requirements k. Validity of rating courses l. Technical oral examination m. Component ratings n. Rating privileges 8.2.2 Describe the aircraft, component or systems that form the basis of each rating group. 2 8.2.3 Describe the specific aircraft, components or systems that are classified under the various	8.1.4		2
8.2.1 Describe the following criteria relating to AME licence ratings: c. Structure of rating groups d. Difference between a group and type rating e. Eligibility requirements f. Practical experience requirements g. Practical Training Record h. Identification of pre-requisite basic examinations i. Examination requirements j. Course requirements k. Validity of rating courses l. Technical oral examination m. Component ratings n. Rating privileges 8.2.2 Describe the aircraft, component or systems that form the basis of each rating group. 2 8.2.3 Describe the specific aircraft, components or systems that are classified under the various	8.1.5	a. 'Line replaceable unit (LRU)'	2
8.2.1 Describe the following criteria relating to AME licence ratings: c. Structure of rating groups d. Difference between a group and type rating e. Eligibility requirements f. Practical experience requirements g. Practical Training Record h. Identification of pre-requisite basic examinations i. Examination requirements j. Course requirements k. Validity of rating courses l. Technical oral examination m. Component ratings n. Rating privileges 8.2.2 Describe the aircraft, component or systems that form the basis of each rating group. 2 8.2.3 Describe the specific aircraft, components or systems that are classified under the various	8.2. Ai	rcraft Maintenance Engineer Ratings	
8.2.3 Describe the specific aircraft, components or systems that are classified under the various 2	8.2.1	Describe the following criteria relating to AME licence ratings: c. Structure of rating groups d. Difference between a group and type rating e. Eligibility requirements f. Practical experience requirements g. Practical Training Record h. Identification of pre-requisite basic examinations i. Examination requirements j. Course requirements k. Validity of rating courses l. Technical oral examination m. Component ratings	2
	8.2.2	Describe the aircraft, component or systems that form the basis of each rating group.	2
	8.2.3		2

8.3. Ce	rtificates of Maintenance Approval	
	Study Refs. 1	
8.3.1	Describe the following criteria relating to certificates of maintenance approval: a. Eligibility requirements b. Examination requirements c. Training course requirements d. Practical experience requirements e. Restrictions on privileges	2
8.3.2	Describe occasions when a certificate of maintenance approval may be issued and identify the various privileges that may be granted on the certificate.	2
8.3.3	State the normal validity periods of a maintenance approval when issued for maintenance of either; type certificated aircraft or components, or experimental category aircraft.	2
8.4. Ce	rtificate of Inspection Authorisation (IA)	
	Study Refs. 1	
8.4.1	Describe the privileges and limitations of a certificate of inspection authorisation and describe situations when an IA holder may work in conjunction with a certifying engineer during the performance and certification of maintenance.	2

9.Rule 91.607- Aircraft Maintenance Programs

9. Air	craft Maintenance Programmes	
9.1. G	eneral Maintenance Programme requirements	
	Study Refs. 1	
9.1.1	Describe the objectives of a maintenance programme.	2
9.1.2	In regard to maintenance programmes, define the following terms: a. Damage tolerant b. Inherent level of reliability and safety c. Maintenance significant items d. Safe-life e. Scheduled maintenance f. Unscheduled maintenance	1
9.1.3	Describe the following maintenance processes: a. Hard-time limit b. On-condition c. Condition-monitored	1
9.1.4	Describe the necessary provisions that should be included in a maintenance programme.	1
9.1.5	Describe factors that should be taken into consideration when establishing a maintenance programme.	1
9.1.6	Identify sources of information that may be used in the development of a maintenance programme.	1

9.1.7	Describe the types of inspections and actions normally performed under the requirements of a maintenance programme.	1
9.1.8	Describe how servicing latitudes are normally administered in order to maintain the integrity of a maintenance programme.	1
9.2. PN	G Maintenance Programme requirements	
	Study Refs. (Rule 91.605, 607, 609, 611); AC 91-10; AC 91-8 Private Aircraft	
9.2.1	Describe the following criteria in relation to PNG maintenance programmes: a. Operator's maintenance manual (Exposition) b. Fitted and role equipment c. Abnormal occurrence inspections d. Compliance with programme	2
9.2.2	Describe the requirements relating to CASA approval of a maintenance programme or subsequent programme changes and variations.	2

10.Rule Part 91 - General Operating and Flight Rules

10. Ge	neral Operating and Flight Rules – Part 91	
10.1. O	perating Rules associated with Aircraft Airworthiness	
	Study Ref. 1	
10.1.1	Describe the following criteria in relation to an operator's responsibilities for the operation of an aircraft: a. Aircraft airworthiness b. Aircraft registration c. Aircraft flight manual d. Documents to be carried in the aircraft e. Daily flight records	2
10.2. F	light Rules	

	Otata Bafa 4	
	Study Ref. 1	
10.2.1	Identify the following general, visual and instrument flight rules that has an airworthiness implication:	1
	a. Familiarity with operating limitations and equipment	
	b. Aircraft lights	
	c. Time-in-service recorder operation	
	d. Operating in snow and ice conditions	
10.3. ln	strument and Equipment Requirements	
	Study Ref. 34 Subpart F & Appendix A	•
10.3.1	Describe the following equipment requirements:	2
	Type and number of instruments and equipment	
	b. Instrument and equipment design and installation standards	
	c. Operable condition of instruments and equipmentd. Location of instruments and equipment	
	e. Seating and restraints	
	f. Passenger information	
	g. Time-in-service recorders.	
	h. Carbon monoxide detectors.	
10.3.2	Describe the following flight requirements relating to instruments and equipment:	2
	a. Minimum instruments and equipment required for VFR flight	
	b. Minimum instruments and equipment required for Night VFR flight	
	c. VFR Communications equipment	
	d. Requirements relating to VFR flight overwater	
	e. Minimum instruments and equipment required for IFR flight f. IFR Communications and navigation equipment	
	f. IFR Communications and navigation equipment g. Emergency equipment	
	h. Aircraft operations over water	
	i. Emergency locator transmitter	
	j. Oxygen requirements	
10.4. In	operative Instruments and Equipment	
	Study Ref. 34 Subpart F	-
10.4.1		2
10.4.1	Describe the following requirements relating to the serviceability of instruments and equipment:	_
	a. Conditions relating to operation of an aircraft with inoperative instruments and	
	equipment	
	b. Placarding of inoperative instruments and equipment	
	c. Approval of minimum equipment lists (MEL)	
	d. Release-to-service with inoperative instruments and equipment	
	e. Conditions relating to the operations of aircraft below 5700 kgMCTOW	
10.5 ln	strument and Equipment Specifications	
10.5. 11	Sudment and Equipment Opecinications	

	Otrolo Def 24 Amendia A	
10 5 1	Study Ref. 34 Appendix A	
10.5.1	Describe data and specifications in regard to the following: a. Markings and placards	1
	b. Fuel and oil markings	
	c. Seating	
	d. Restraints	
	e. Aircraft lights	
	f. Time-in-service recorders	
	g. Pressure altimetersh. Communication and navigation equipment	
	i. First aid kits	
	j. Fire extinguishers	
	k. Emergency equipment	
	I. Emergency locator transmitters	
	m. Oxygen systems and equipment	
	n. Transponder equipment	
	o. Altitude equipment	
10.6. O	perator Maintenance Requirements	
10101 0	•	
40.04	Study Ref. 34 Subpart G	
10.6.1	Describe the maintenance requirements before flight	2
10.6.2	Describe the general maintenance requirements an operator has in regard to the	2
	following:	
	a. Airworthy condition	
	b. Airworthiness Directives (ADs)	
	c. Inspection, maintenance and release-to-service d. Defects	
	e. Inoperative equipment	
	f. Airworthiness limitations	
	g. Manufacturer's recommended overhaulintervals	
10.6.3	Describe the following requirements in relation to maintenance programmes and	2
10.0.3	schedules	2
	a. Programme options	
	b. Minimum inspection intervals	
	c. Radio station tests and inspections	
	d. Altimeter system and altitude reporting equipment tests and inspections	
	e. SSR transponder tests and inspections	
	f. ELT tests and inspections	
	g. Compasses h. First Aid Kits	
	i. Portable Fire Extinguishers	
	j. Flotation equipment	
	k. Weighing	
	I. Programme identification, persons responsible, providing copy of programme	
	m. Approval of maintenance programmes	
	n. Changes to maintenance programmes	
	o. Inspection planning latitudes	
10.6.4	Describe the specific maintenance requirements an operator has in regard to the	2
	following:	
	a. Operational flight checks	
	b. Review of airworthiness	
	c. Maintenance logbooks and records	
	d. Transfer of maintenance records e. Retention of records	
	o. Reconstituti di recordo	

10.7. T	echnical Log	
	Study Refs. 1	
10.7.1	Describe the following in regard to technical logs: a. Purpose b. Carriage of the document in an aircraft c. Responsibility for recording information on the log d. Period a log may remain in use e. Approved content of a technical log f. Technical log in relation to a logbook g. Concessions for air transport operators h. Concessions for fixed base operators i. Retention of technical logs j. Transferring information to the aircraft logbook including the use of blockentries for hours k. Pilot's responsibility to enter information	1

11.Rule Part 119 - Air Operator Certification

11. Aiı	Operator Certification – Part 119	
11.1. A	ir Operator Certification	
	Study Refs. 1	
11.1.1	State the purpose of this Rule in respect of the certification of air operators.	1
11.1.2	Specify the conditions and limitations relating to the certification air operators with particular regard to operations using aeroplanes and helicopters of varying MCTOW and seating configuration.	1
11.1.3	Identify the various Rule Parts appropriate to the certification of an operator under the above conditions.	1
11.2. A	ir Operator maintenance requirements	
	Study Refs. 1	
11.2.1	Describe the Airline Air Operator and General Aviation Air Operator requirements for maintenance procedures and maintenance programmes	1
11.2.2	Describe the requirements of a <i>General aviation air operator</i> exposition that is relevant to the maintenance of their aircraft.	2

12.Rule Part 100 - Safety Management & Quality Management Systems

12. Int	ternal Quality Assurance	
12.1. C	Quality (Safety) Management System	
	Study Ref. 1	
12.1.1	In regard to a quality management system, describe the following: a. Importance of the quality management approach to aviation safety b. The components of a quality management system c. Role of the CASA in ensuring air operator safety d. Objective of quality assurance procedures	2
12.1.2	Describe the following terms associated with a quality management system: a. Evidence b. Controls c. Finding d. Concern e. Root cause f. Inspection g. Audit h. Safety policy i. Corrective action j. Preventive action k. Management review l. Audit programme m. Quality indicators n. Quality assurance procedures o. Management representative	1

13.Rule Part 145 – Aircraft Maintenance Organisation

13. Certificated Aircraft Maintenance Organisations – Part 145		
13.1. G	eneral and Certification Requirements	
	Study Refs. 1	
13.1.1	Describe the Part 145 maintenance ratings that are appropriate for various types of aircraft or aircraft component work.	2
13.1.2	State the qualification and experience requirements specified for persons to hold senior positions in a Part 145 maintenance organisation.	1
13.1.3	State the normal validity period of a Part 145 certificate.	1
13.1.4	Describe the duty time limitations for authorised staff	2
13.1.5	Describe the facility requirements for all maintenance activities.	1
13.1.6	Describe the equipment, tools and material requirements	1

13.1.7	Identify the maintenance control procedures requirements	1
13.2. C	ompany Authorisation Procedures	
	Study Refs. Rule 145.111	
13.2.1	Describe the various maintenance activities that company authorisations are required for.	2
13.2.2	Describe the qualification, training and assessment requirements for the issue of a company authorisation for the release-to-service of aircraft and aircraft components.	2
13.2.3	State the training course and examination requirements for certifying staff.	2
13.2.4	Describe the requirements for persons to certify conformity of major repair or major modification.	2
13.2.5	Describe the recent experience requirements pertaining to the holder of a company authorisation.	2
13.3. R	ecords, Internal Quality Assurance and Exposition	
	Study Refs. Rule 145 / Rule 100	
13.3.1	Describe the records that a Part 145 organisation is required to keep in regard to: a. Certifying personnel b. Maintenance c. Equipment and tools	1
13.3.2	Describe the essential requirements of a quality assurance system for a Part 145 organisation.	1
13.3.3	Identify components of a Company Exposition that would be relevant to an engineer working within a Part 145 organisation.	1