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SECTION J

GENERAL EXAMINATION REQUIREMENTS AND PROCEDURES

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Section J GENERAL NFORMATION ON EXAMS

J1 GENERAL INFORMATION

This Section provides information on the examinations appropriate to the grant or extension of a licence in accordance with Part-66. Examinations under BCAR Section L and Part-66 (with certain Exemptions) are not interchangeable and cannot be credited between the two requirements.

J2 PART-66 EXAMINATIONS

Although Part-66 employs a modular syllabus the content of a module may vary in terms of the subjects covered within the module and depth of knowledge required according to the basic licence category sought. Part-66 examinations are based on the Part-66 syllabus as set out in Appendix I to Part-66.

The examinations will be provided in English, using abbreviations where applicable and compiled by a computer in multiple choice format. Candidates may apply to take papers singly or in groups however, Part-147 organisations may impose certain minima.

A list of common abbreviations used in the examinations can be found in Appendix A to this Section.

J2.1 Multi-Choice Paper

For each module being taken, a question paper including instructions is provided together with an answer sheet. Each question comprises an introductory statement (question stem) and three alternative answers designated (A), (B) and (C) printed below. Only one of these answers is totally correct; the remaining two answers are incorrect or only partially correct, being incomplete in some definite aspect.

J2.2 Essay Paper

Prior to licence issue essay examinations need to be passed in the following modules:

Module 7 - 2 questions Module 9 - 1 question Module 10 - 1 question

Essays can be sat singly or in groups.

For details of the subject modules and applicability please refer to the relevant Sections of this publication.

J3 WRITTEN EXAMINATION BOOKING PROCEDURE

In order to make a booking for an examination sitting, applicants are asked to follow the procedures below:-

- Candidates should apply in writing (either by post or fax) using the appropriate application forms which are available from Personnel Licensing Department or on our website www.caa.co.uk/ elforms. No bookings can be made by telephone and all bookings are made on a first come, first served basis.
- Candidates should indicate on the application form their first and second preference venue choices and the date they wish to sit the examination(s). The Authority reserves the right to change any venue to satisfy demand and does not guarantee a candidate a specific venue or examination date.
- Examination fees must be sent with the application form. Bookings will not be made unless the correct fees have been received.
- Once a booking has been made, candidates will receive an examination booking confirmation by post.
 - The time between the closing date for applications and the examination sitting is two weeks. Personnel Licensing Department will endeavour to send booking confirmations, venue details and examination timetables to reach candidates within 2 days of the booking and, in any case, at least 1 week prior to the sitting.

J4 EXAMINATION TIMETABLE

Details of the SCHEDULED examination dates can be found at Appendix B.

J5 EXAMINATION VENUES

Detailed venue maps can be found on the CAA (SRG) website at: www.caa.co.uk

Facilities for lunchtime meals and/or snacks will be provided at all written exam venues, wherever possible, on a payment basis.

J6 CANCELLATION OR TRANSFER OF DATE/VENUE

Examination bookings cannot be amended within two weeks prior to the examination. Cancellations will only be accepted, if received in writing, at least 10 working days before the examination. For CAA purposes working days means Monday to Friday (excluding public holidays). Refund of examination fees for emergency cancellations or non-attendance will only For the refund or transfer of fees or when an examination has been re-arranged at the request of the applicant, a transfer fee is payable as stated in the Scheme of Charges.

J7 ATTENDANCE AT THE EXAMINATIONS

Candidates should be present at the examination centre at least 20 minutes before the scheduled time for the commencement of each examination sitting. All candidates are required to present photo ID on the exam day. Acceptable photo ID's are passport, UK Forces ID, company or student ID. Candidates without ID will not be permitted to sit the exam. Candidates may only enter the examination room during the 10 minutes preceding the start of the examinations to prepare examination material. They must not remain in the room after the finish of the examination period.

Personal coats, bags, briefcases, etc. may be placed at the front/rear of the examination room, under the direction of the invigilating officer. Any bags etc. could be removed if left unattended outside the examination room.

Note: the CAA accepts no responsibility for items of personal equipment a candidate brings into the examination hall and which he/she is not permitted to retain during the examination.

Whilst every attempt is made to ensure reasonable comfort in examination halls which are operated on hire or lease arrangements and over which the CAA, as a result, has no direct control, the CAA cannot be held responsible for extraneous noise or for any breakdown or fluctuation in heating, lighting or ventilation facilities,. Candidates are also advised that, at all examination centres, a 'no smoking rule' must be observed.

J8 MATERIALS FOR THE EXAMINATION

We will provide everything needed for the examination. No other materials are allowed on the desks. However, candidates may use own pens when writing essays. The use of calculators is not permitted.

J9 EXAMINATION BRIEFING

Before the start of the examinations, the invigilator will give a briefing regarding the examination.

J10 REGULATIONS APPLIED TO THE CONDUCT OF WRITTEN EXAMINATIONS

Candidates are not allowed to use any loose paper other than that provided at the examination. All papers issued by the CAA are to be returned with the answer sheet to the invigilator on completion.

Candidates must ensure that all answers have been transferred onto their answer sheet by the end of the examination. Candidates failing to do this will not be given any extra time.

Silence is to be observed in the examination room <u>at all</u> <u>times</u>. Electronic alarms and key rings are not permitted. Mobile telephones, pagers etc. must be switched to silent or off and left with the candidates personal belongings.

If a candidate wishes to speak to an Invigilating Officer, he/she should remain seated and raise his/her hand. It should be noted that the Invigilating Officer will consider only those questions from candidates which relate to the general conduct of the examinations and he/she will not enter into discussion on the interpretation of words or questions contained in the examination papers.

Candidates are to stop work and put pencils down when so directed and must remain seated and quiet until all answer material has been collected.

Any candidate who attempts to remove unauthorised examination materials from the room will be liable to disqualification from those examinations which have been taken and may be subject to special arrangements for future examinations.

Any infringement of examination regulations may result in the candidate being disqualified in any subject he has taken and barred from further participation in future examinations.

J11 EXAMINATION RESULTS

Results will normally be dispatched by first class post or air mail within 10 working days following the end of the examination week concerned. Candidates should not telephone Personnel Licensing Department to request despatch dates of examination results, as results will not be given over the telephone under any circumstances. In the event of non-receipt of a result notification, arrangements can be made for repeat notifications to be sent by post. Results will not be released by fax, nor is it possible to collect your results on the day of despatch, simply because one candidate could enjoy time advantage over another. Allowance should be made for possible postal delay before asking for a repeat notification. Results will not be released until any outstanding payments have been received.

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The CAA cannot enter into discussion or correspondence with candidates on the subject of their written examination results, but candidates may apply for any paper to be remarked on payment of the fee as stated in the Scheme of Charges.

J12 EXAMINATION RE-SITS

Candidates cannot apply to re-sit examinations, which they believe they may have failed, until they have received the official result notification. In the case of Part-66 examinations a period of 90 days must lapse between the initial sitting and re-sit. The Part-66 90 day rule is reduced to 30 days for a candidate attending a Part-147 approved maintenance organisation that conducts a course of re-training tailored to the failed subjects in the particular module.

J13 EXAMINATION PASS STANDARDS AND VALIDITY PERIODS

A candidate must complete all required written and/or oral examinations within 5 years of their first pass. Passes falling outside that time limit will lapse. The papers can be attempted in any order. A pass in a Part-66 examination will be awarded to a candidate achieving at least 75% of the marks allocated to that examination.

Section A

APPENDICES TO SECTION J

- Appendix A
- Common Abbreviations
- Appendix B
- Written Examination Timetable
- Appendix C
- Suggested Study Material

APPENDIX A COMMON ABBREVIATIONS

A

a: ABIP AC:	atto Advisory Body of Interested Parties Alternating Current	CJAA: CofA: Compo
a/c:	Aircraft	Contin
ACARS:	Aircraft Communication Addressing and Reporting System	Airwor
AD:	Airworthiness Directive	
ADI:	Attitude Director Indicator	
ADF: ADO:	Automatic Direction Finder Approved Design Organisation	CRD:
AFCS:	Automatic Flight Control System	CRD.
AGNA:	Advisory Group of National Authorities	CRT:
Aircraft:	any machine that can derive support in	CRS:
	the atmosphere from the reactions of the	CS:
	air other than reaction of the air against	CSP:
- //-	the earth's surface	D
a/l: ALT:	airline Altitude	
AMC:	Acceptable Means of Compliance	d:
A-NPA:	Advance Notice of Proposed	da:
	Amendment	db: DC:
AMO:	Approved Maintenance Organisation	DG TF
AMOSS:	Airline Maintenance and Operation Support System	
AMSD:	Aircraft Maintenance Standards Division	DME:
AMP:	Approved Maintenance Programme	DOA:
AMT:	Approved Maintenance Training	DOE:
AN:	Airworthiness Notice (CAP 455)	E
ANO:	Air Navigation Order	E:
AOC: A/P:	Air Operator Certificate Autopilot	E:
APO:	Approved Production Organisation	EADI:
APU:	Auxiliary Power Unit	EASA: EC:
ARC:	Airworthiness Review Certificate	ECAM
ARINC:	Aeronautical Radio Incorporated	ECU:
ASL: ATC:	above sea level Air Traffic Control	EEC:
ATM:	Air Traffic Management	EEPR
AWO:	All Weather Operations	
в	·	EFIS: EHSI:
5		EICAS
BCAR:	British Civil Airworthiness Requirements	
BR:	Basic Regulation	EL:
с		EPA:
		EPR: EPR:
C:	centi	EPRO
CAME:	Continuous Airworthiness Maintenance	LINO
CADC:	Exposition Central Air Data Computer	ER:
CAP:	Civil Aviation Publication	ETSO
CDU:	Control Display Unit	ETSO
Certifying		EU:
staff:	means personnel responsible for the	F
	release of an aircraft or a component after maintenance.	r

Continuing	Certification Central Joint Aviation Authorities Certificate of Airworthiness means any engine, propeller, part or appliance. s:means all of the processes ensuring that, at any time in its operating life, the aircraft complies with the airworthiness
CRD: CRI: CRT: CRS: CS: CSP: D	requirements in force and is in a condition for safe operation. Comment Response Document Certification Review Item Cathode Ray Tube Certificate of Release to Service Certification Specification Certification Standardisation Panel
-	
d: da: db: DC: DG TREN:	deci deca (ten) decibel (acoustic measurement unit) Direct Current Directorate-General for Energy and Transport (European Commission)
DME: DOA: DOE:	Distance Measuring Equipment Design Organisation Approval Design Organisation Exposition
E	
E: EADI: EASA: EC: ECAM: ECU: EEC: EEPROM:	esca Engine Electronic Attitude Director Indicator European Aviation Safety Agency European Commission Electronic Centralised Aircraft Monitor Electronic Control Unit Electronic Engine Control Electrically Erasable Programmable Read Only Memory
efis: Ehsi: Eicas:	Electronic Flight Instrument System Electronic Horizontal Situation Indicator Engine Indicating and Crew Alerting System
el: Epa: Epr: Epr: Eprom:	Engineer Licensing European Part Approval Engine Pressure Ratio Environmental Protection Requirements Erasable Programmable Read Only Memory
ER: ETSO: ETSOa:	Essential Requirements European Technical Standard Order European Technical Standard Order authorisation
EU: F	European Union

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f: FAA: FADEC:	femto Federal Aviation Administration Full Authority Digital Engine Control	Maintenance	e:means any one or a combination of overhaul, repair, inspection, replacement, modification or defect
FCL:	Flight Crew Licensing		rectification of an aircraft or component,
FCU: FDS:	Flight Control Unit Flight Director System	MB:	with the exception of pre-flight inspection. Management Board (EASA)
FMCS:	Flight Management Computer System	MEL:	Minimum Equipment List
FMS:	Flight Management System	MHRS:	Magnetic Heading Reference System
G		MM:	Maintenance Manual
G:	giga	MMEL: MOA:	Master Minimum Equipment List Maintenance Organisation Approval
GA:	general aviation	MOE:	Maintenance Organisation Exposition
GM:	Guidance Material	MoC:	Means of Compliance
GMT: GPS:	Greenwich Mean Time Global Positioning System	MOM:	Maintenance Organisation Manual (Subpart F)
GPWS:	Ground Proximity Warning System	MSA:	Member States Administration
GS:	Glide Slope	MS:	Member State (of the European
н		MTO(A):	Community) Maintenance Training Organisation
h:	hecto (hundred)		(Approval)
HLD:	Hold	MTOE:	Maintenance Training Organisation
HSI: HUD:	Horizontal Situation Indicator Head-Up Display	MTOM:	Exposition Maximum Take Off Mass
1		MTOP:	Maximum Take-Off Power
IAS:	Indicated Airspeed	Ν	
ICAO:	International Civil Aviation Organisation	N:	newton
ILS:	Instrument Landing System	n:	nano
INS: IPC:	Inertial Navigation System Illustrated Parts Catalogue	NAA: NAV:	National Aviation Authority navigation
IR:	Implementing Rules	NPA:	Notice of Proposed Amendment
IRS:	Inertial Reference System	0	
ISA:	International Standard Atmosphere	OAT:	Outside Air Temperature
J		OCP:	Organisations Certification Procedure
J:	joule	OEM :	Original Equipment Manufacturer
JAA: JAR:	Joint Aviation Authorities Joint Aviation Requirements	Ops: Organisation	Operations n: means a natural person, a legal person or
5АК. К	Joint Aviation Requirements	Organisation	part of a legal person. Such an
			organisation may be established at more
K: k:	kelvin thousand		than one location whether or not within the territory of the Member States.
KHZ:	KiloHertz	Р	the territory of the Member States.
KIAS:	Indicated Airspeed in Knots	-	
KT:	Knots (nautical miles/ hour)	P: P:	peta Propeller
L		p:	pico
Large	·····	Pa:	Pascal
aircraft:	means an aircraft, classified as an aeroplane with a maximum take-off mass	PAD: Part 21:	Proposed Airworthiness Directive Commission Regulation (EC) No 1702/
	of more than 5700kg, or a multi-engined	1 att 21.	2003 Certification of aircraft and related
1.00	helicopter.	D. (M	products, parts and appliances
LCD: LoA:	Liquid Crystal Display Letter of agreement	Part M:	Commission Regulation (EC) No 2042/ 2003 Annex I Continuing Airworthiness
LOC:	Localiser		Requirements
LRU:	Line replaceable Unit	Part 145:	Commission Regulation (EC) No 2042/
М			2003 Annex II Maintenance Organisation Approvals
M:	mega (million)	Part 66:	Commission Regulation (EC) No 2042/
m: m:	milli	Part 147:	2003 Annex III Certifying Staff
m: µ:	metre micro	r dit 147.	Commission Regulation (EC) No 2042/ 2003 Annex IV Training Organisation
			Requirements

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PCB: PCM: PCP: POA: POE: PPA: Pre-flight Inspection:	Printed Circuit Board Project Certification Manager Products Certification Procedure Production Organisation Approval Production Organisation Exposition Products, parts and appliances means the inspection carried out before flight to ensure that the aircraft is fit for the intended flight.	TCH: TCDS: TET: TGT: ToA: ToR: TVP: U UAV:	Type Certificate Holder Type Certificate Data Sheet Turbine Entry Temperature Turbine Gas Temperature Terms of Approval Terms of Reference Type validation principles
R			
RCVR:	Receiver	v	
RG: RIA: RMI: RNAV: RP: RTA:	Rulemaking Regulatory Impact Assessment Radio Magnetic Indicator Area Navigation Responsible Party Request for Technical Advice	VDU: VLA: VLR: VNAV: VOR:	Visual Display Unit Very Light Aeroplane Very Light Rotorcraft Vertical Navigation Very-high-frequency Omnidirectional Range
S		VS:	Vertical Speed
SARP: SAS: SeCAL: SoR: SRM: SSCC: STC: STC: STCH: T	ICAO Standards and Recommended Practices Stability Augmentation System Selective Calling State of Design State of Registry Structural Repair Manual Safety Standards Consultative Committee Supplemental Type Certificate Synthetic Training Device STC Holder	W W: WA: WG: WXR: X XTR: Y Y: Y: Y: Y: Z	watt Working Arrangement Working Group Weather Radar Transceiver Transmitter yotta yocto
T:	tera	Z :	zeta
TAS: TAT: TC:	True Air Speed Total Air Temperature Type Certificate	Z:	zepto

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	Gatwick	Oxford	Glasgow	Silsoe	MacclesfieldC ollege	Huddersfield
Jan 06	13	13	13	13	13	13
Feb 06	10	10	10	10	10	10
Mar 06	10	10	10	10	10	10
Apr 06	7	7	7	7	7	7
May 06	12	12	12	12	12	12
Jun 06	9	9	9	9	9	9
Jul 06	7	7	7	7	7	7
Aug 06	11	11	11	11	11	11
Sep 06	8	8	8	8	8	8
Oct 06	6	6	6	6	6	6
Nov 06	10	10	10	10	10	10
Dec 06	8	8	8	8	8	8

All engineer licensing examinations will be held at the main Personnel Licensing Department examination venues

The venues, in total, can seat a minimum of 500 candidates per month. Venue details will be sent with each examination confirmation.

Please note that published exam dates may be subject to alteration or cancellation.

The closing date for applications is 2 weeks before the exam sitting i.e. applications to sit exams 9 December 2005 must be received by 25 November 2005.

Booking confirmations, including venue details and timetables should reach candidates at least 1 week prior to the exam sitting. Candidates are strongly advised not to make any travel or accommodation arrangements until their bookings are confirmed in writing.

Note: Exam sittings at Gatwick, Oxford and Macclesfield are usually fully booked 2 months in advance.

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APPENDIX C SUGGESTED STUDY MATERIAL

The following is a list of publications which may be useful when studying for knowledge examinations in support of a Part 66 maintenance licence. BCAR Section L contains a list appropriate to the UK licence required for Airships.

CAP 455	Airworthiness Notices
CAP 715	An Introduction to Human Factors in Aviation Maintenance
CAP 747	Mandatory Requirements for Airworthiness
JAR-OPS – 1	
JAR-OPS -	- 3

Commission Regulation	EC 1592/2002		
Commission Regulation	EC 1702/2003 Part 21		
Commission Regulation	EC 2042/2003 Annex I Part M		
Commission Regulation	EC 2042/2003 Annex II Part 145		
Commission Regulation	EC 2042/2003 Annex III Part 66		
Commission Regulation	EC 2042/2003 Annex IV Part 147		
Certification Specifications for Normal, Utility, Aerobatic, and Commuter Category Aeroplanes (CS-23)			
Certification Specificatio (CS-25)	ns for Large Aeroplanes		
Certification Specificatio (CS-27)	ons for Small Rotorcraft		
Certification Specificatio (CS-29)	ons for Large Rotorcraft		
Certification Specification (CS-APU)	is for Auxiliary Power Units		
Certification Specificati Operations (CS-AWO)	ions for All Weather		
Certification Specification Abbreviations (CS-Definit			

The above publications are available on the EASA website.

Book Title	Author	ISBN
Basic Knowledge		
Ordinary Level Physics	Abbott	0-435-6700-5
ASA-AMT-G	Dale Crane	1-56027-152-3
Mechanics of Flight	A.C. Kermode	0-582-23740-8
Principles of Flight	Mike Burton	1-85310-779-4
Principles of Flight	Jeppesen	0-88487-358-7
Principles of Flight	Nordian	82-8107-014-5
The Foundations of Helicopter Flight	Simon Newman	0-340-58702-4
The Helicopter How it Flies	J Fay	0-7153-8940-8
The Art & Science of Flying Helicopters	Shawn Coyle	0-340-65249-7

Airframe and Mechanical		
Aircraft Maintenance and Repair	Kroes.Watkins.Delp	0-07-112991-X
The Aeroplane Structure	A.C. Kermode	0-273-25229-1
ASA-AMT-Structure	Dale Crane	1-56027-339-9
leppesen General		0-88487-203-3
leppesen Airframe		0-88487-205-1
ASA-AMT-A	Dale Crane	1-56027-153-1
Engineered Materials Handbook Vol 1	ASM International	0-87170-279-7
ight Aircraft Inspection	J.E. Heywood	0-85661-016-X
ight Aircraft Maintenance	J.E. Heywood	0-24611-909-8
ASA – AMT – SYS	Dale Crane	1-56027-340-2
Fundamentals of Helicopter Maintenance	Schafer	0891002812
Powerplant		
he Jet Engine	Rolls Royce	0-902-121235
Aircraft Powerplants	Bent & McKinley	0-07-035569-X
ircraft Powerplants	Kroes. Wild	0-07-113429-6
ASA – AMT – P	Dale Crane	1-56027-410-7
ircraft Gas Turbine Engine Technology	I. E. Treager	0028018281
Aircraft Gas Turbine Engine Technology	I. E. Treager	007065199X
lectrical / Electronic and Avionics		
Electrical Technology	E Hughes	0470207337
Aircraft Electrical Systems	E Pallet	0-582-98819-5
Aircraft Electricity and Electronics	Eisman	0-02-801859-1
Art of Electronics	Horowitz /Hill	0-521-37095-7
Elements of Electronics	Hickey/Villines	0070286957
Nodern Aviation Electronics	A Helfrich	0-13-118803-8
licro Electronics in Aircraft systems	E Pallet	0-273-08612-X
Digital Logic	Boyce	0-13214619-3
Fiber Optics	Zanger	0-675-20944-7
ntroduction to Avionics	Collinson	0-412-48550-9
Avionic Fundamentals		0-89100-293-6

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Manual of Avionics	B Kendal	0-632-01863-1
Automatic Flight Control	E Pallet	0-632-03495-5
Aircraft Instruments & Integrated Systems	E Pallett	0-582-08627-2
Digital Avionic Systems	GRS Spitzer	0-07-060333-2
Transport Category Aircraft Systems	Wild	0-88487-232-7
Aircraft Radio Systems	J Powell	0-273-08444-5
Aircraft Radio Systems	J Powell	0-89100-356-8
Radio Navigation Systems	Forssell	0-13-751058-6
Avionic Navigation Systems	Kayton/Fried	0-471-54795-6
Electro-magnetic Compatibility	Kodali	0-7803-117-5