



Aircraft Maintenance Engineer's Logbook

Foreword

This log book is the current format as the preferred means of recording aircraft practical maintenance training and experience in order to support an application to CAAB for the issue or variation of an Aircraft Maintenance License.

The format and layout of the logbook will enable a methodical and progressive recording of personal data and ongoing work experience by the user, thereby enabling a quicker and more accurate assessment of the user's technical knowledge and experience by CAAB, employer or assessor.

The log book has been produced in loose-leaf form so that additional pages may be inserted selectively as and when required, in order to accommodate progressive recording of ongoing work experience, and to enable removal of pages containing information, which may be considered redundant or surplus to the user's current needs.

Used correctly, this log book should serve as a compact and portable reference document, which would hold a concise history of the holder's training, experience, qualification and employment record, together with a facility to record any ongoing work experience as may be required for the purpose of applying to the authority for the issue or amendment of an Aircraft Maintenance Licence.

The design and content of this log book have been derived from current regulatory requirements. However, please note that completion of this log book does not preclude the need to produce original documents, such as employment testimonials, training certificates or certified true copies of the same, where these may be required.

Enquiries regarding the content of this publication should be addressed to:
Airworthiness & Engineering Licensing Division,
Flight Safety & Regulations,
Civil Aviation Authority, Bangladesh,
Head Quarters, Kurmitola, Dhaka-1229.

Soft copy available from:
CAAB Website: www.caab.gov.bd

CONTENTS

Section 1	1.1	Instructions for use
	1.2	Personal Data
		• Change of permanent address
		• Record of training
	1.3	Employment record
Section 2	2.1	Practical Skill (Basic & Type)
Section 3	3.1	Maintenance experience
	3.2	Maintenance Task
Appendix-I		
Appendix-II		

Section 1

Section 1.1 Instructions for use

General Information

All entries in this log book shall be made in ink. Dates entered shall follow the format DD/MM/YY.

Each page shall be identified by the log book owner's name and signature.

When used in support of an application for a licence, any false entry in the logbook will constitute an offence under the legislation currently in force.

Additional pages containing Section 3.1–Maintenance Experience may be used from CAAB website. Contact details are as follows:

Airworthiness & Engineering Licensing Division,
Flight Safety & Regulations,
Civil Aviation Authority, Bangladesh,
Head Quarters, Kurmitola, Dhaka-1229.

Completion of the logbook

Entries in the logbook are to be made by 3 categories of persons:

1 The Log book Holder

It is important to note that AMEs shall not certify their own entries except for renewal application. However, certain pages require the name and signature of the log book holder. This is primarily for traceability and identification purposes, particularly when logbook pages are separated from the logbook and used in isolation.

2 The Assessor

(Section 2.1 Practical Skills - Basic & Type)

The Assessor may be any one of the following:

- a) An appropriately qualified Part-147 training instructor or person appropriately qualified and authorized by the organization under the terms of its approval to carry out the assessment.
- b) An appropriately qualified licensed aircraft maintenance engineer employed by a Part-145 maintenance organization and authorized by the Part147 approval organization.
- c) An appropriately qualified licensed aircraft maintenance engineer employed by a Part-M Subpart F organization and authorized by the Part147approval organization.
- d) A person authorized for the purpose by the Civil Aviation Authority, Bangladesh.

The assessor shall also ensure that the logbook holder is able to:

- 1) identify the appropriate standards; and
- 2) select and use the correct tools for the task/process.

When confirming entries, assessors shall sign and quote their authorization no within the organization on behalf of which the assessment has been carried out.

3 The Task Supervisor

(Section 3.1 Maintenance Experience)

The Task Supervisor may be anyone of the following:

- a) An appropriately qualified Part-147 training instructor authorized by the organization under the terms of its approval to conduct OJT(on the job training).
- b) An appropriately qualified licensed aircraft maintenance engineer employed by a Part-145 Maintenance Organization or existing Maintenance Organization and authorized to conduct OJT.
- c) An appropriately qualified licensed aircraft maintenance engineer employed by a Part-M Subpart F organization and authorized to conduct OJT..
- d) A person authorized for the purpose by the Civil Aviation Authority, Bangladesh.

The supervisor shall confirm the required entries by appending his/her signature and licence/authorization number in the appropriate column.

Section 1.2 Personal Data

This section contains

- 1 Provision for recording the logbook owner's name, nationality, date of birth, licence number and address.
- 2 Provision for recording personal training.

Personal Data

Title:	Name:		
Nationality & ID #:		Date of Birth:	Licence No:
Permanent Address:			
Post Code:		(Record changes of address overleaf)	
Log Book Owner's Name:..... Signature:.....			

Changes of Present address

1:	2:
3:	4:
Log Book Owner's Name:..... Signature:.....	

Record of Training

Type of Training Completed	Training Organization/OJT Organization	Date		Result
		From	To	
Log Book Owner's Name: Signature:.....				

Section 1.3 Employment Record

This section has been provided for recording the logbook owner's employment history. Employment record entries should be confirmed by a senior member of the employer's organization holding the appropriate authority.

Employer:		
From:	To:	Position in Company:
Nature of Duties:		
Types of aircraft or other products:		
Confirmed by:		
Signature:	Date:	Position in Company:
Employer:		
From:	To:	Position in Company:
Nature of Duties:		
Type of aircraft or other products:		
Confirmed by:		
Signature:	Date:	Position in Company:
Log Book Owner's Name:.....Signature:.....		

Section 2

Section 2.1 Practical Skills (Basic & Type)

This section is aimed at the trainee undergoing Basic Training for initial issue of Part-66 Category A, B1 and B2 AML as well as aircraft maintenance apprenticeships and practical training of Part-66 Type Licence. Practical Skills gained within training environment cannot be transferred to Maintenance Experience mentioned in 3.1.

The required training and assessment may be carried out on in-service aircraft, in workshops, on training equipment or on simulators. Each entry must be confirmed by a Qualified Person, with his/her signature, position and organization details, to indicate that the logbook holder has achieved the required competence on the subject. For issuance and amendment of Aircraft Maintenance Licence a specific task shall only be entered once but for renewal of AME Licence, AME may make multiple entries for similar tasks.

Training Organization should preserve practical skills (Basic & Type) in a format described in the procedure. In case of On the Job training for type to be imparted by maintenance organization, guidance of Appendix -I must be followed. However, in both cases the logbook should contain the minimum information mentioned below:

- a. Task ID;
- b. Duration;
- c. Date of Completion;
- d. Category of Licence;
- e. Assessor's particulars including signature;

Task Codes for Appendix -I of AME Log Book

LOC – Location
FOT – Functional/Operational Test
SGH – Service and Ground Handling
R/I – Removal Installation
MEL – Minimum Equipment List
TS – Troubleshooting

Log Book Owner's Signature: _____

Date of CAAB Form 19 Application: _____

Section 3

Section 3.1 Maintenance Experience

This section is aimed to record maintenance experience on in-service aircraft for

- (1) trainees undergoing or completed basic training;
- (2) aircraft maintenance personnel undergoing on-the-job training &
- (3) type rating endorsement.

This section has been ordered as per ATA Chapters and the entries should be entered in the blank blocks on an ordered manner in accordance with the ATA Chapter reference of the task performed.

The type and range of tasks under taken must reflect the requirements of ANO (AW) Part-66 in respect of the category and/or type rating applied for. Work task details should be recorded by the logbook holder on completion of the task and countersigned by the task supervisor as soon as practicable after completion of the task. The supervisor will append his/her name, signature and licence number to the record to indicate that the task has been carried out correctly under his/her direct supervision. But in case of renewal of Aircraft Maintenance Licence work task details should be recorded by the logbook holder on completion of the task. For issuance and amendment of Aircraft Maintenance Licence a specific task shall only be entered once but for renewal of AME Licence, AME may make multiple entries for similar tasks.

It is expected that candidate will follow AMC-Appendix II of ANO (AW) Part-66 for the Maintenance experience for Basic Licence as a guideline. For Basic Licence all the applicable ATA chapters for the category are to be recorded.

The following activities are considered relevant for maintenance experience:

Servicing;
Inspection;
Operational and Functional Testing;
Troubleshooting;
Repairing;
Modifying;
Changing Component;
Supervising these activities;
Releasing aircraft to service.

Maintenance Experience

ATA _____						
Date (dd/mm/yy)	Aircraft Regn.: Aircraft-Engine combination	Job Card /Task Ref.	ACCOMPLISHED TASK	Task ¹ Code	Owner's signature	Signature and stamp of Supervisor/Assessor
						*
						*
						*
						*
						*
						*
						*
1. Task code: LOC/FOT/SGH/(R/I)/MEL/TS * The above work has been carried out correctly by the logbook owner under my supervision and in accordance with the appropriate technical documentation.						

Logbook Owner's Name:

Summary of Experience (Basic category)

The intent of this table is to provide a summary report demonstrating that the maintenance experience are broad based (i.e all the maintenance functions mentioned in column 1 to 6 are performed several times) for the category applied for. Candidate should mention on each applicable column 1 to 6 for each chapter the number of times he/she performs each type of maintenance functions. This Summary of Experience is required to be submitted to CAAB along with the application for Basic Licence.

Category: _____

Chapter (Applicable for the Category)	SVC (1)	INS (2)	FOT (3)	R/I (4)	R/M (5)	TS (6)
05 Time limits/Maintenance checks						
06 Dimensions/Areas						
..						
....						
.....						
Total maintenance function	_____	_____	_____	_____	_____	_____

.....
Place

.....
Date

.....
Name & Title
Approval signature (*)

(*) this approval signature shall be entered by a responsible person of the Organization (i.e. Quality Manager). This person undertakes the responsibility on behalf of the Organization that the maintenance experience/OJT program meets the requirement of ANO (AW) Part-66 in the category of _____ and has been recorded in the AME Logbook. This report shall be signed before the final assessment.

Note: SVC-Servicing;
INS-Inspection;
FOT- Functional/Operational Test;
R/I--Component Change;
R/M-Repairing & Modifying;
TS-Troubleshooting

Compliance Report (Type Rating)

The intent of this table is to provide a compliance report demonstrating that the maintenance experience meets the standard required by ANO(AW) Part 66. In particular, the table shall indicate the percentage of tasks effectively performed against the tasks contained in the ANO(AW) to Part 66.

This table is to be completed by the Organization delivering the OJT training or maintenance experience. This Compliance Report is required to be submitted to CAAB along with Type application.

Category: _____, **Type Rating on:** _____.

Chapter	Number of tasks applicable to the A/C type (AMC-Appendix II)**	Number of tasks effectively performed	Percentage (%) of tasks effectively performed against the applicable tasks (Should be at least 50% of the applicable tasks on each row for first type rating)
05 Time limits/Maintenance checks			
06 Dimensions/Areas			
..			
....			
.....			

.....
Place

.....
Date

.....
Name & Title
Approval signature (*)

(*) this approval signature shall be entered by a responsible person of the Organization (i.e. Quality Manager). This person undertakes the responsibility on behalf of the Organization that the maintenance experience/OJT program meets the standard required by ANO(AW) Part 66 in the category of _____ and has been recorded in the AME Logbook.. This report shall be signed before the final assessment.

(**) If any task is not applicable in a particular chapter for an aircraft type, Organization should provide with enough justification for such non-applicability. A single list of such tasks is enough for each aircraft type.

Appendix-I

Chapter	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
Introduction Module											
05 Time limits/maintenance checks	X/X	—	—	—	—	—	—	—	—	—	—
06 Dimensions/Areas	X/X	—	—	—	—	—	—	—	—	—	—
07 Lifting and Shoring	X/X	—	—	—	—	—	—	—	—	—	—
08 Leveling and weighing	X/X	—	X	—	—	—	—	X	—	—	—
09 Towing & Taxiing	X/X	—	X	—	—	—	—	X	—	—	—
10 Parking/mooring, Strong and Return to Service	X/X	—	X	—	—	—	—	X	—	—	—
11 Placards and Markings	X/X	—	—	—	—	—	—	—	—	—	—
12 Servicing	X/X	—	X	—	—	—	—	X	—	—	—
20 Standard practices — only type particular	X/X	—	X	—	—	—	—	X	—	—	—
Helicopters											
18 Vibration and Noise Analysis (Blade tracking)	X/--	—	—	—	—	X	—	—	—	—	—
60 Standard Practices Rotor – only Type Specific	X/X	—	X	—	—	—	—	X	—	—	—
62 Rotors	X/--	—	X	X	—	X	—	—	—	—	—
62A Rotors — Monitoring and indicating	X/X	X	X	X	X	X	—	—	X	—	X
63 Rotor Drives	X/--	X	—	—	—	X	—	—	—	—	—
63A Rotor Drives — Monitoring and indicating	X/X	X	—	X	X	X	—	—	X	—	X
64 Tail Rotor	X/--	—	X	—	—	X	—	—	—	—	—
64A Tail rotor — Monitoring and indicating	X/X	X	—	X	X	X	—	—	X	—	X
65 Tail Rotor Drive	X/--	X	—	—	—	X	—	—	—	—	—
65A Tail Rotor Drive — Monitoring and indicating	X/X	X	—	X	X	X	—	—	X	—	X
66 Folding Blades/Pylons	X/--	X	X	—	—	X	—	—	—	—	—
67 Rotor Flight Control	X/--	X	X	—	X	X	—	—	—	—	—
53 Airframe Structure (Helicopter)											
25 Emergency Floatation Equipment	X/X	X	X	X	X	X	X	X	—	—	—

Chapter	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
Airframe structure											
51 Standard practices and structures (damage classification, assessment and repair)											
53 Fuselage	X/--	—	—	—	—	X	—	—	—	—	—
54 Nacelles/Pylons	X/--	—	—	—	—	—	—	—	—	—	—
55 Stabilizers	X/--	—	—	—	—	—	—	—	—	—	—
56 Windows	X/--	—	—	—	—	X	—	—	—	—	—
57 Wings	X/--	—	—	—	—	—	—	—	—	—	—
27A Flight Control Surface (All)	X/--	—	—	—	—	X	—	—	—	—	—
52 Doors	X/X	X	X	—	—	—	—	X	—	—	—
Airframe Systems											
21 Air Conditioning	X/X	X	X	—	X	X	X	X	—	X	X
21A Air Supply	X/X	X	—	—	—	—	X	—	—	—	—
21B Pressurization	X/X	X	—	—	X	X	X	—	—	X	X
21C Safety & Warning Devices	X/X	—	X	—	—	—	—	X	—	—	—
22 Auto flight	X/X	—	—	—	X	—	X	X	X	X	X
23 Communications	X/X	—	X	—	X	—	X	X	X	X	X
24 Electrical Power	X/X	X	X	X	X	X	X	X	X	X	X
25 Equipment and Furnishings	X/X	X	X	X	—	—	X	X	X	—	—
25A Electronic Equipment including emergency equipment	X/X	X	X	X	—	—	X	X	X	—	—
26 Fire Protection	X/X	X	X	X	X	X	X	X	X	X	X
27 Flight Controls	X/X	X	X	X	X	X	X	—	—	—	—
27A Sys. Operations: Electrical/Fly-by-Wire	X/X	X	X	X	X	—	X	—	X	—	X
28 Fuel Systems	X/X	X	X	X	X	X	X	X	—	X	—
28A Fuel Systems — Monitoring and indicating	X/X	X	—	—	—	—	X	—	X	—	X

Chapter	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
29 Hydraulic Power	X/X	X	X	X	X	X	X	X	—	X	—
29A Hydraulic Power — Monitoring and indicating	X/X	X	—	X	X	X	X	—	X	X	X
30 Ice and Rain Protection	X/X	X	X	—	X	X	X	X	—	X	X
31 Indicating/Recording Systems	X/X	X	X	X	X	X	X	X	X	X	X
31A Instrument Systems	X/X	X	X	X	X	X	X	X	X	X	X
32 Landing Gear	X/X	X	X	X	X	X	X	X	X	X	—
32A Landing Gear — Monitoring and indicating	X/X	X	—	X	X	X	X	—	X	X	X
33 Lights	X/X	X	X	—	X	—	X	X	X	X	—
34 Navigation	X/X	—	X	—	X	—	X	X	X	X	X
35 Oxygen	X/--	X	X	X	—	—	X	X	—	—	—
36 Pneumatic	X/--	X	—	X	X	X	X	—	X	X	X
36A Pneumatic — Monitoring and indicating	X/X	X	X	X	X	X	X	X	X	X	X
37 Vacuum	X/--	X	—	X	X	X	—	—	—	—	—
38 Water/Waste	X/--	X	X	—	—	—	X	X	—	—	—
41 Water Ballast	X/--	—	—	—	—	—	—	—	—	—	—
42 Integrated modular avionics	X/X	—	—	—	—	—	X	X	X	X	X
44 Cabin Systems	X/X	—	—	—	—	—	X	X	X	X	X
45 On-Board Maintenance System (or covered in 31)	X/X	X	X	X	X	X	X	X	X	X	X
46 Information Systems	X/X	—	—	—	—	—	X	—	X	X	X
50 Cargo and Accessory Compartments	X/X	—	X	—	—	—	—	—	—	—	—
Turbine/Piston Engine Module:											
70 Standard Practices — Engines —only type particular	—	—	X	—	—	—	—	X	—	—	—
70A Constructional arrangement and operation (Installation Inlet, Compressors, Combustion Section, Turbine Section, Bearings and Seals, Lubrication Systems)	X/X	—	—	—	—	—	—	—	—	—	—

Chapter	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
Turbine engines:											
70B Engine Performance	—	—	—	—	—	X	—	—	—	—	—
71 Power Plant	X/--	—	—	—	—	—	—	—	—	—	—
72 Engine Turbine/Turbo Prop/Ducted Fan/ Unducted fan	X/--	—	—	—	—	—	—	—	—	—	—
73 Engine Fuel and Control	X/-X	X	—	—	—	—	—	—	—	—	—
73A FADEC Systems	X/X	X	—	X	X	X	X	—	X	X	X
74 Ignition	X/X	X	—	—	—	—	X	—	—	—	—
75 Air	X/--	—	—	X	—	X	—	—	—	—	—
76 Engine Controls	X/--	X	—	—	—	X	—	—	—	—	—
77 Engine Indicating	X/X	X	—	—	X	X	X	—	—	X	X
78 Exhaust	X/--	X	—	—	X	—	—	—	—	—	—
79 Oil	X/--	—	X	X	—	—	—	—	—	—	—
80 Starting	X/--	X	—	—	X	X	—	—	—	—	—
82 Water Injection	X/--	X	—	—	—	—	—	—	—	—	—
83 Accessory Gearboxes	X/--	—	X	—	—	—	—	—	—	—	—
84 Propulsion Augmentation	X/--	X	—	—	—	—	—	—	—	—	—
Auxiliary Power Units (APUs):											
49 Auxiliary Power Units (APUs)	X/--	X	X	—	—	X	—	—	—	—	—
Piston Engines:											
70 Standard Practices — Engines —only type Particular	—	—	X	—	—	—	—	X	—	—	—
70A Constructional arrangement and operation (Installation Inlet, Compressors, Combustion Section, Turbine Section, Bearings and Seals, Lubrication Systems)	X/X	—	—	—	—	—	—	—	—	—	—
70B Engine Performance	—	—	—	—	—	X	—	—	—	—	—
71 Power Plant	X/--	X	X	—	—	—	—	X	—	—	—

Chapter	B1/B2	B1					B2				
	LOC	FOT	SGH	R/I	MEL	TS	FOT	SGH	R/I	MEL	TS
73 Engine Fuel and Control	X/X	X	—	—	—	—	—	—	—	—	—
73A FADEC Systems	X/X	X	—	X	X	X	X	X	X	X	X
74 Ignition	X/X	X	—	—	—	—	X	—	—	—	—
76 Engine Controls	X/--	X	—	—	—	X	—	—	—	—	—
77 Engine Indicating	X/X	X	—	—	X	X	X	—	—	X	X
78 Exhaust	X/--	X	—	—	X	X	—	—	—	—	—
79 Oil	X/--	—	X	X	—	—	—	—	—	—	—
80 Starting	X/--	X	—	—	X	X	—	—	—	—	—
81 Turbines	X/--	X	X	X	—	X	—	—	—	—	—
82 Water Injection	X/--	X	—	—	—	—	—	—	—	—	—
83 Accessory Gearboxes	X/--	—	X	X	—	—	—	—	—	—	—
84 Propulsion Augmentation	X/--	X	—	—	—	—	—	—	—	—	—
Propellers:											
60A Standard Practices — Propeller	—	—	—	X	—	—	—	—	—	—	—
61 Propellers/Propulsion	X/X	X	X	—	X	X	—	—	—	—	—
61A Propeller Construction	X/X	—	X	—	—	—	—	—	—	—	—
61B Propeller Pitch Control	X/--	X	—	X	X	X	—	—	—	—	—
61C Propeller Synchronizing	X/--	X	—	—	—	X	—	—	—	X	—
61D Propeller Electronic control	X/X	X	X	X	X	X	X	X	X	X	X
61E Propeller Ice Protection	X/-	X	—	X	X	X	—	—	—	—	—
61F Propeller Maintenance	X/X	X	X	X	X	X	X	X	X	X	X

Section 3.2 Maintenance Tasks

This section gives examples of maintenance tasks, which may be undertaken. It is not an exhaustive list and may be added to in order to support an application for an aircraft maintenance licence.

The type and number of tasks undertaken must be representative of the aircraft structure and systems, both in terms of technology and complexity. While relatively simple tasks may be included, other more complex tasks appropriate to the privileges of the licence applied for should also be undertaken and recorded.

Appendix-II**Maintenance Tasks****Time limits/Maintenance checks**

100 hour check (general aviation aircraft).
 "A", "B" or "C" check (transport category aircraft).
 Review records for compliance with airworthiness directives.
 Review records for compliance with component life limits.
 Procedure for Inspection following heavy landing.
 Procedure for Inspection following lightning strike.

Dimensions/Areas

Locate component(s) by zone/station number.
 Perform symmetry check.

Lifting and Shoring

Assist in:
 Jack aircraft nose or tail wheel.
 Jack complete aircraft.
 Sling or trestle major component.

Levelling/Weighing

Level aircraft.
 Weigh aircraft.
 Prepare weight and balance amendment.
 Check aircraft against equipment list.

Towing and Taxiing

Tow aircraft.
 Be part of aircraft towing team.

Parking and Mooring

Tie down aircraft.
 Park, secure and cover aircraft.
 Position aircraft in maintenance dock.
 Secure rotor blades.

Placards and Markings

Check aircraft for correct placards.
 Check aircraft for correct markings.

Servicing

Refuel aircraft.
 Defuel aircraft.
 Check tyre pressures.
 Check oil level.
 Check hydraulic fluid level.
 Check accumulator pressure.
 Charge pneumatic system.
 Grease aircraft.
 Connect ground power.
 Service toilet/water system.
 Perform pre-flight/daily check.

Vibration and Noise Analysis

Analyze helicopter vibration problem.
 Analyze noise spectrum.

Air Conditioning

Replace combustion heater.
 Replace outflow valve.
 Replace vapour cycle unit.
 Replace air cycle unit.
 Replace cabin blower.
 Replace heat exchanger.
 Replace pressurization controller.
 Clean outflow valves.
 Check operation of air conditioning/heating system.
 Check operation of pressurisation system.
 Trouble shoot faulty system.

Auto flight

Install servos.
 Rig bridle cables
 Replace controller.
 Replace amplifier.
 Check operation of auto-pilot.
 Check operation of auto-throttle.
 Check operation of yaw damper.
 Check and adjust servo clutch
 Perform autopilot gain adjustments.
 Perform mach trim functional check.
 Trouble shoot faulty system.
 Check auto land system.
 Check flight management systems.
 Check stability augmentation system.

Communications

Replace VHF comm unit.
Replace HF comm unit.
Replace existing antenna.
Replace static discharge wicks.
Check operation of radios.
Perform antenna VSWR check.
Perform Selcal operational check.
Perform operational check of passenger address system.
Functionally check audio integrating system.
Repair co-axial cable.
Trouble shoot faulty system.

Electrical Power

Charge lead/acid battery.
Charge ni-cad battery.
Check battery capacity.
Deep-cycle ni-cad battery.
Replace generator/alternator.
Replace switches.
Replace circuit breakers.
Adjust voltage regulator.
Change voltage regulator.
Amend electrical load analysis report.
Repair/replace electrical feeder cable.
Trouble shoot faulty system.

Equipment/Furnishings

Replace carpets.
Replace crew seats.
Replace passenger seats.
Check inertia reels.
Check seats/belts for security.
Check emergency equipment.
Check ELT for compliance with regulations.
Repair toilet waste container.
Repair upholstery.
Change cabin configuration.

Fire Protection

Check fire bottle contents.
Check operation of warning system.
Check cabin fire extinguisher contents.

Check lavatory smoke detector system.
Install new fire bottle.
Replace fire bottle squib.
Trouble shoot faulty system.
Inspect engine fire wire detection systems.

Flight Controls

Replace horizontal stabiliser.
Replace elevator.
Replace aileron.
Replace rudder.
Replace trim tabs.
Install control cable and fittings.
Replace flaps.
Replace powered flying control unit
Replace flap actuator
Adjust trim tab.
Adjust control cable tension.
Check control range and sense direction of movement.
Check for correct assembly and locking.
Trouble shoot faulty system.

Fuel

Replace booster pump.
Replace fuel selector.
Replace fuel tank cells.
Check filters.
Flow check system.
Check calibration of fuel quantity gauges.
Check operation feed/selectors
Trouble shoot faulty system.

Hydraulics

Replace engine driven pump.
Replace stand by pump.
Replace accumulator.
Check operation of shut off valve.
Check filters.
Check indicating systems.
Perform functional checks.
Trouble shoot faulty system.

Ice and Rain Protection

Replace pump.
 Replace timer.
 Install wiper motor.
 Check operation of systems.
 Trouble shoot faulty system.

Indicating/recording systems

Replace flight data recorder .
 Replace cockpit voice recorder.
 Replace clock.
 Replace master caution unit.
 Perform flight data recorder data retrieval.
 Trouble shoot faulty system.
 Implement ESD procedures.
 Inspect for HIRF requirements.

Landing Gear

Build up wheel.
 Replace main wheel.
 Replace nose wheel.
 Replace shimmy damper.
 Rig nose wheel steering.
 Replace shock strut seals.
 Servicing of shock strut.
 Replace brake unit.
 Replace brake control valve.
 Bleed brakes.
 Test anti skid unit.
 Test gear retraction.
 Change bungees.
 Adjust micros witches/sensors.
 Charge struts .
 Trouble shoot faulty system.
 Test out brake system.

Lights

Repair/replace rotating beacon.
 Repair/replace landing lights.
 Repair/replace navigation lights.
 Repair/replace interior lights.
 Repair/replace emergency lighting system.
 Perform emergency lighting system checks.
 Trouble shoot faulty system.

Navigation

Calibrate magnetic direction indicator.
 Replace air speed indicator.
 Replace altimeter.
 Replace air data computer.
 Replace VOR unit.
 Replace ADI.
 Replace HSI.
 Check pitot static system for leaks.
 Check operation of directional gyro.
 Functional check weather radar.
 Functional check doppler.
 Functional check TCAS.
 Functional check DME.
 Functional check ATC Transponder.
 Functional check flight director system.
 Functional check inertial nav system.
 Complete quadrantal error correction of ADF system.
 Update flight management system data base.
 Trouble shoot faulty system.
 Check marker systems.
 Compass replacement direct /indirect.
 Check Satcom.
 Check GPS.
 Test AVM.

Oxygen

Inspect onboard oxygen equipment.
 Purge and recharge oxygen system.
 Replace regulator.
 Replace oxygen generator.
 Test crew oxygen system.
 Perform auto oxygen system deployment check.
 Trouble shoot faulty system.

Pneumatic Systems

Replace filter.
 Replace compressor.
 Recharge dessicator.
 Adjust regulator.
 Check for leaks.
 Trouble shoot faulty system.

Vacuum Systems

Replace vacuum pump.
Check/replace filters.
Adjust regulator.
Trouble shoot faulty system.

Water/Waste

Replace water pump.
Replace tap.
Replace toilet pump.
Trouble shoot faulty system.

Central Maintenance System

Retrieve data from CMU.
Replace CMU.
Perform BITE check.
Trouble shoot faulty system.

Airborne Auxiliary power

Install APU.
Inspect hot section.
Trouble shoot faulty system.

Structures

Sheet metal repair.
Fibre glass repair.
Wooden repair.
Fabric repair.
Recover fabric control surface.
Treat corrosion.
Apply protective treatment.

Doors

Rig/adjust locking mechanism.
Adjust air stair system.
Check operation of emergency exits.
Test door warning system.
Trouble shoot faulty system.

Windows

Replace windshield.
Replace window.
Repair transparency.

Wings

Skin repair.
Recover fabric wing.
Replace tip.
Replace rib.
Check incidence/rig.

Propeller

Assemble prop after transportation.
Replace propeller.
Replace governor.
Adjust governor.
Perform static functional checks.
Check operation during ground run.
Check track.
Check setting of micro switches.
Dress out blade damage .
Dynamically balance prop.
Trouble shoot faulty system.

Main Rotors

Install rotor assembly.
Replace blades.
Replace damper assembly.
Check track.
Check static balance.
Check dynamic balance.
Trouble shoot.

Rotor Drive

Replace mast.
Replace drive coupling.
Replace clutch/free wheel unit
Replace drive belt.
Install main gearbox.
Overhaul main gearbox.
Check gearbox chip detectors.

Tail Rotors

Install rotor assembly.
Replace blades.
Trouble shoot.

Tail Rotor Drive

Replace bevel gearbox.
Replace universal joints.
Overhaul bevel gearbox.
Check chip detectors.

Rotorcraft Flight Controls

Install swash plate.
Install mixing box.
Adjust pitch links.
Rig collective system.
Rig cyclic system.
Rig anti-torque system.
Check controls for assembly and locking.
Check controls for operation and sense.
Trouble shoot faulty system.

Power Plant

Build up ECU.
Replace engine.
Repair cooling baffles.
Repair cowling.
Adjust cowl flaps.
Repair faulty wiring.
Trouble shoot.

Piston Engines

Remove/install reduction gear.
Check crank shaft run-out.
Check tappet clearance.
Extract broken stud.
Install helicoil.
Perform ground run.
Establish/check reference RPM.
Trouble shoot.

Turbine Engines

Replace module.
Hot section inspection.
Engine ground run.
Establish reference power.
Trend monitoring/gas path analysis.
Trouble shoot.

Fuel and Control–Piston

Replace engine driven pump.
Adjust AMC.
Adjust ABC.
Install carburetor/injector.
Adjust carburetor/injector.
Clean injector nozzles.
Replace primer line.
Check carburetor float setting.
Trouble shoot faulty system.

Fuel and Control–Turbine

Replace FCU.
Replace engine driven pump.
Clean/test fuel nozzles.
Clean/replace filters.
Adjust FCU.
Trouble shoot faulty system.

Ignition Systems–Piston

Change magneto.
Change ignition vibrator.
Change plugs.
Test plugs.
Check H.T. leads.
Install new leads.
Check timing.
Check system bonding.
Trouble shoot faulty system.

Ignition Systems–Turbine

Check glow plugs/ignitors.
Check H.T. leads.
Check ignition unit.
Replace ignition unit.
Trouble shoot faulty system.

Engine Controls

Rig thrust lever.
Rig RPM control.
Rig mixture HP cock lever.
Rig power lever.

Check control sync (multi-eng).
Check controls for correct assembly and locking.
Check controls for range and sense of operation.
Adjust pedestal micro-switches.
Trouble shoot faulty system.

Engine Indicating

Replace engine instrument(s).
Replace oil temperature bulb.
Replace thermocouples.
Check calibration.
Trouble shoot faulty system.

Exhaust–Piston

Replace exhaust gasket.
Inspect welded repair.
Pressure check cabin heater muff.
Trouble shoot faulty system.

Exhaust–Turbine

Change jet pipe.
Change shroud assembly.
Install trimmers.

Oil

Change oil.
Check filter(s).
Adjust pressure relief valve.
Replace oil tank.
Replace oil pump.

Replace oil cooler.
Replace fire wall shut-off valve.
Perform oil dilution test.
Trouble shoot faulty system.

Starting

Replace starter.
Replace start relay.
Replace start control valve.
Check cranking speed.
Trouble shoot faulty system.

Turbocharger–Piston Engines

Replace PRT.
Replace turbo-blower.
Replace heat shields.
Replace waste gate.
Adjust density controller.

Engine Water Injection

Replace water/methanol pump.
Flow check water/methanol system.
Adjust water/methanol control unit.
Check fluid for quality.
Trouble shoot faulty system

Accessory Gear boxes

Replace gearbox.
Replace drive shaft.
Check/inspect magnetic chip detector.