Human Environment and Transport
Inspectorate
Ministry of Infrastructure and Water Management

Logbook

Practical experience Group 2c Helicopters, single piston engine Helicopters , cat. B1.4

This logbook is to be used to record details of experience on Group 2c Helicopter type rating(individual or subgroup). This logbook is based on AMC/GM appendix II.
Type exam + practical experience can be demonstrated for Group 2c helicopter(s) (ref Guidance material to Part-66 section A).
For more details in regards to experience requirements see EASA Part-66.A.45 + AMC.

Subjects which are not related to the helicopter can be skipped, additional tasks can be added.

Logbook

Practical experience Group 2c Helicopters, single piston engine Helicopters, cat. B1.4
Human Environment and Transport Inspectorate
Ministry of Infrastructure and the Environment

This logbook is used to record experience on the following Group 2b helicopter(s)

Type _____ (ref AMC to Part 66 AMC Appendix I Helicopter Type rating)

Type _____ (ref AMC to Part 66 AMC Appendix I Helicopter Type rating)

Type _____ (ref AMC to Part 66 AMC Appendix I Helicopter Type rating)

1. Details applicant

Name _____

Surname _____

Nationality _____

Address _____

Postal Code _____

Place of residence _____

2. Details Company (if applicable)

Company Name _____

Address _____

Part-145 approval no. _____

3. Details Supervisor/CS

Company Name

Address

Part 145 Approval reference

Supervisor name	AML License No*	Company authorisation No	Signature

Company Name

Address

Part 145 Approval reference

Supervisor name	AML License No*	Company authorisation No	Signature

** In case the Supervisor/CS is not in possession off a Dutch registered Part-66AML a copy of the foreign AML needs to be attached*

4. Duration Experience

Indicate in which period the experience is achieved.

Start date	End date	Company	Total Duration

5. Details Quality Manager/Supervisor(s)/AML holder

By signing it, the Manager or supervisor(s)/AML holder will ensure that the technician has sufficiently satisfied the basic experience requirements (ref. Part 66.A.30 basic experience requirements).

Name

Location

Company

Date

Signature

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
05	Time limits/maintenance checks					
	100 hr check (general aviation helicopter).					
	"B" or "C" (transport category helicopter).					
	Assist carrying out a scheduled maintenance check i.a.w. AMM.					
	Review helicopter maintenance log for correct completion.					
	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.					
	Replace LRU and perform test (BIT).					
06	Dimensions & Areas					
	Locate component(s) by zone/station number.					
	Perform symmetry check					
07	Lifting and Shoring					
	Jack complete helicopter.					
	Sling or trestle major component.					
08	Levelling/Weighing					
	Level helicopter.					
	Weigh helicopter.					
	Prepare weight and balance amendment.					
	Check helicopter against equipment list.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
09	Towing and Taxiing					
	Prepare for helicopter towing.					
	Tow helicopter.					
	Be part of helicopter towing team.					
10	Parking and mooring					
	Tie down helicopter.					
	Park , secure and cover helicopter.					
	Position helicopter in maintenance dock.					
	Secure rotor blades					
11	Placards and Markings					
	Check helicopter for correct placards.					
	Check helicopter for correct markings.					
12	Servicing					
	Refuel helicopter.					
	Defuel helicopter.					
	Carry out tank to tank transfer.					
	Check tire pressures.					
	Check/replenish oil level.					
	Check/replenish hydraulic fluid level.					
	Charge pneumatic system.					
	Check replenish accumulator pressure.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
12	Servicing continue					
	Grease helicopter.					
	Connect ground power.					
	Perform preflight/daily check.					
18	Vibration and Noise Analysis					
	Analyse helicopter vibration problem.					
	Analyse noise spectrum.					
	Analyse engine vibration					
21	Air conditioning					
	Replace combustion heater.					
	Replace cabin blower.					
	Replace heat exchanger.					
	Deactivate/reactivate avionics ventilation components.					
	Check operation of air conditioning/heating system.					
	Trouble shoot faulty system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
22	Autoflight					
	Install servos.					
	Rig bridle cables.					
	Replace controller.					
	Replace amplifier.					
	Check operation of auto-pilot.					
	Check operation of YAW damper					
	Check/adjust servo clutch					
	Perform auto-pilot gain adjustments.					
	Trouble shoot faulty AFCS system					
	Check flight management systems.					
	Check Stabilty Augmentation System.					
	Replacement of the auto-flight LRU's in case of fly-by-wire system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
23	Communications					
	Replace static discharge wicks.					
	Functionally check audio integrating system.					
	Repair coaxial cable.					
	Troubleshoot faulty system.					
24	Electrical Power					
	Charge lead/acid battery.					
	Charge ni-cad battery.					
	Check battery capacity.					
	Deep-cycle ni-cad battery.					
	Replace integrated drive/generator/alternator.					
	Replace switches.					
	Replace circuit breakers.					
	Adjust voltage regulator.					
	Change voltage regulator.					
	Amend electrical load analysis report.					
	Repair/replace electrical feeder cable.					
	Troubleshoot faulty system.					
	Perform functional check of integrated drive/generator/alternator.					
	Perform functional check of voltage regulator.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
24	Electrical power (continue)					
	Perform functional check of emergency generation system.					
25	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.					
	Remove and install ceiling and sidewall panels.					
	Repair upholstery.					
	Change cabin configuration.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
26	Fire protection					
	Check fire bottle contents.					
	Check/test operation of fire/smoke detection and warning systems.					
	Check cabin fire extinguisher contents.					
	Check cargo panel sealing.					
	Install new fire bottle.					
	Replace fire bottle squib.					
	Troubleshoot faulty system.					
	Inspect engine fire wire detection systems.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
28	Fuel					
	Water drain system (operation).					
	Replace booster pump.					
	Replace fuel selector.					
	Replace fuel tank cells.					
	Replace/test fuel control valves.					
	Replace magnetic fuel level indicators.					
	Replace water drain valve.					
	Check/calculate fuel contents manually.					
	Check filters.					
	Flow check system.					
	Check calibration of fuel quantity gauges.					
	Check operation feed/selectors.					
	Check operation of fuel dump/jettison system.					
	Fuel transfer between tanks.					
	Pressure defuel.					
	Pressure refuel (manual control).					
	Deactivation/reactivation of the fuel valves (transfer defuel, X-feed, refuel)					
	Troubleshoot faulty system.					
	Troubleshoot faulty system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
29	Hydraulics					
	Replace engine driven pump.					
	Check/replace case drain filter.					
	Replace standby pump.					
	Replace hydraulic motor pump/generator.					
	Replace accumulator.					
	Check operation of shut off valve.					
	Check filters/clog indications.					
	Check indicating systems.					
	Perform functional checks.					
	Pressurisation/depressurisation of the hydraulic system.					
	Power Transfer Unite (PTU) operation.					
	Replacement of PTU.					
	Troubleshoot faulty system.					
30	Ice and Rain protection					
	Replace pump.					
	Replace timer.					
	Replace anti-ice/de-ice valve					
	Replacement of windscreen wiper blades.					
	Install wiper motor.					
	Check operation of systems.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
30	Ice and Rain protection continue					
	Operational test of the pitot-probe ice protection.					
	Operational test of the TAT ice protection.					
	Assistance of the operational test of the engine air-intake ice protection (with engines operating).					
	Troubleshoot faulty system					
31	Indicating/recording systems					
	Replace flight data recorder.					
	Replace cockpit voice recorder.					
	Replace clock.					
	Replace master caution.					
	Perform FDR data retrieval.					
	Troubleshoot faulty system.					
	Implement EDSD procedures.					
	Inspect for HIRF requirements.					
	Start/stop EIS procedure.					
	Bite test of the CFDU.					
	Ground scanning of the central warning system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
32	Landing Gear					
	Build up wheel.					
	Replace nose wheel.					
	Replace main wheel.					
	Replace steering actuator.					
	Replace truck tilt actuator.					
	Replace gear retraction actuator.					
	Replace uplock/downlock assembly.					
	Replace shimmy damper.					
	Rig nose wheel steering.					
	Functional test of the nose wheel steering system.					
	Replace shock strut seals.					
	Replace brake unit.					
	Replace brake control valve.					
	Bleed brakes.					
	Replace brake fan.					
	Test anti skid unit.					
	Change bungees.					
	Adjust micro switches/sensors.					
	Charge struts with oil and air.					
	Test auto-brake system.					

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32	Landing Gear (continue)					
	Check/test emergency landing gear extension (alternate).					
	Operational test of the landing gear doors.					
	Replace helicopter skids.					
	Replace helicopter skid shoes.					
	Pack and check floats.					
	Check Flotation equipment.					
33	Lights					
	Replace/repair rotating beacon.					
	Replace/repair landing lights.					
	Replace/repair navigation lights.					
	Replace/repair interior lights.					
	Replace/repair ice inspection lights.					
	Replace/repair logo lights.					
	Replace/repair emergency lighting system.					
	Perform emergency lighting system checks.					
	Troubleshoot faulty system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
34	Navigation					
	Calibrate magnetic direction indicator.					
	Check pitot static system for leaks.					
	Check calibration of pitot static instrument.					
	Compass replacement direct/indirect.					
35	Oxygen					
	Inspect on board oxygen equipment.					
	Purge and recharge oxygen system.					
	Replace regulator.					
	Replace oxygen regulator.					
	Test crew oxygen system.					
	Perform auto oxygen system deployment check.					
	Troubleshoot faulty system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
36	Pneumatic systems					
	Replace filter.					
	Replace air shut off valve.					
	Replace pressure regulating valve.					
	Replace computer.					
	Recharge dessicator.					
	Adjust regulator.					
	Check for leaks.					
	Troubleshoot faulty system.					
37	Vacuum systems					
	Inspect the vacuum system i.a.w. AMM.					
	Replace vacuum pump.					
	Check/replace filters.					
	Adjust regulator.					
	Troubleshoot faulty system					
	Troubleshoot faulty system.					

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38	Water/waste systems					
	Replace water pump.					
	Replace tap.					
	Replace toilet pump.					
	Perform water heater functional check.					
	Inspect waste bin flap closer.					
	Troubleshoot faulty system.					
45	Central Maintenance system					
	Retrieve data form CMU.					
	Replace CMU.					
	Perform Bite check.					
	Troubleshoot faulty system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
51	Structures					
	Assessment of damage.					
	Sheet metal repair.					
	Fibre glass repair.					
	Wooden repair.					
	Fabric repair.					
	Recover fabric control surface.					
	Treat corrosion.					
	Apply protective treatment.					
52	Doors					
	Inspect passenger door i.a.w. AMM.					
	Rig/adjust locking mechanism.					
	Adjust air stair system.					
	Check operation of emergency exits.					
	Test door warning system.					
	Troubleshoot faulty system.					
	Remove/install passenger door i.a.w. AMM.					
	Remove/install emergency door i.a.w. AMM.					
	Inspect cargo door i.a.w. AMM.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
56	Windows					
	Replace windshield.					
	Replace direct vision window.					
	Replace cabin window.					
	Repair transparency.					
62	Main Rotors					
	Install rotor assembly.					
	Replace blades.					
	Replace damper assembly.					
	Check track.					
	Check static balance.					
	Check dynamic balance.					
	Troubleshoot faulty system					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
63	Rotor drive					
	Replace mast.					
	Replace drive coupling.					
	Replace clutch/freewheel unit.					
	Replace drive belt.					
	Install main gearbox.					
	Overhaul main gearbox.					
	Check gearbox chip detectors					
64	Tail rotors					
	Install rotor assembly.					
	Replace blades.					
	Troubleshoot.					
65	Tail rotor drive					
	Replace bevel gearbox.					
	Replace universal joints.					
	Overhaul bevel gearbox.					
	Install drive assembly.					
	Check chip detectors.					
	Check/install bearings and hangers.					
	Check/service/assemble flexible couplings.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
65	Tail rotor drive (continue)					
	Check alignments of flexible shafts.					
	Install and rig drive shafts					
67	Helicopter 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.					
	Troubleshoot faulty system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
71	Power plant					
	Build up ECU.					
	Replace engine.					
	Repair cooling baffles.					
	Repair cowling.					
	Adjust cowl flaps.					
	Repair faulty wiring.					
	Troubleshoot.					
	Assist in dry motoring run.					
	Assist in wet motoring run.					
	Assist in engine start (manual mode).					
72	Piston Engines					
	Remove/install reduction gear.					
	Check crankshaft run-out.					
	Check tappet clearance.					
	Check compression.					
	Extract broken stud.					
	Install helicoil.					
	Establish/check reference RPM.					
	Troubleshoot.					
	Troubleshoot.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
73	Fuel and control, Piston					
	Replace engine driven pump.					
	Adjust AMC.					
	Adjust ABC.					
	Install carburettor/injector.					
	Adjust carburettor/injector.					
	Clean injector/nozzles.					
	Replace primer line.					
	Check carburettor float setting.					
	Troubleshoot faulty system.					
74	Ignition systems, piston					
	Change magneto.					
	Change ignition vibrator.					
	Change plugs.					
	Test plugs.					
	Check H.T. leads.					
	Install new leads.					
	Check timing.					
	Check system bonding.					
	Troubleshoot faulty system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
76	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 direction of movement.					
	Adjust pedal micro-switches.					
	Troubleshoot faulty systems.					
77	Engine indicating					
	Replace engine instrument(s).					
	Replace oil temperature bulb.					
	Replace thermocouples.					
	Check calibration.					
	Troubleshoot faulty system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
78	Exhaust, piston					
	Replace exhaust gasket.					
	Inspect welded repair.					
	Pressure check cabin heater muff.					
	Troubleshoot faulty system					
79	Oil					
	Change oil.					
	Check filters.					
	Adjust pressure relief valve.					
	Replace oil tank.					
	Replace oil pump.					
	Replace oil cooler.					
	Replace firewall shut off valve.					
	Perform oil dilution test.					
	Troubleshoot faulty system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
80	Starting					
	Replace starter.					
	Replace start relay.					
	Replace start control valve.					
	Check cranking speed.					
	Troubleshoot faulty system.					
81	Turbines, piston engine					
	Replace PRT.					
	Replace turbo-blower.					
	Replace heat shields.					
	Replace waste gate.					
	Adjust density controller.					
82	Engine Water injection					
	Replace water/methanol pump.					
	Flow check water/methanol system.					
	Adjust water/methanol control unit.					
	Check fluid for quality.					
	Troubleshoot faulty system.					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
83	Accessory gear boxes					
	Replace gearbox.					
	Replace drive shaft.					
	Inspect magnetic chip detector.					
ALL	Additional tasks performed					

ATA	Task title	Helicopter type/construction	Helicopter reg.	Performed by:(sign)	Supervised by:(sign)	Date
ALL	Additional tasks performed					