

ANEXO 2

ANEXO A – EXPERIÊNCIA EM MANUTENÇÃO CIVIL DE AERONAVES

Anexo A do EASA Form 19 – EXPERIÊNCIA EM MANUTENÇÃO CIVIL DE AERONAVES

1- A preencher pela Organização Parte 145

Identificação Organização Parte 145:
CAT n.º

Identificação do requerente:

Identificação Instrutor (aplicável em “On Job Training”):

Identificação da Aeronave (par aeronave motor):

Regras:

- 1ª Qualificação na categoria/subcategoria – Cumprimento de 50 % das tarefas constantes no Anexo A (“On job training”) referente à categoria/subcategorias.
- 2ª ou mais qualificações na categoria/subcategoria – Cumprimento de 30 % das tarefas constantes no Anexo A referente à categoria/subcategorias.
- 3ª ou mais qualificações na categoria/subcategoria referente a aeronaves consideradas na alínea h) do 66.A.45 do Regulamento CE 2042/2003 - Cumprimento de 20 % das tarefas constantes no Anexo A referente à categoria/subcategorias.
- Revalidação das qualificações – Cumprimento de 30 % das tarefas constantes do Anexo A referente às categorias/subcategorias.
- Para a categoria A - por se tratar de uma categoria com formação de tarefa, a experiência considerada será a adequada às tarefas desempenhadas, da responsabilidade da Organização Parte 145

Aircraft Type Practical Experience

(Experiência prática para tipo de aeronave)

All items must be complied with appropriate to the Part 66 category applied.

(Todos os trabalhos têm de ser cumpridos de acordo com a categoria da Parte 66)

Items for B1 and/or B2 are also applicable for category C.

(Trabalhos para B1 e/ou B2 também são aplicáveis para a categoria C)

Date (Data)	Task work card (Carta de trabalho)	Aircraft licence (Matricula Aeronave)	ATA	List of Tasks (Tarefas)	CAT. (A; B1; B2)	Trainee Signature (Assinatura do formando)	Instructor's Signature (Assinatura do formador) aplicável no "On job Training"	Quality or Maintenance Signature (Assinatura do responsável da Qualidade ou Manutenção)
			05	Time limits/Maintenance checks				
				100 hour check (general aviation aircraft).	B1; B2			
				"B" or "C" check (transport category aircraft)	B1; B2			
				Assist carrying out a scheduled maintenance check i.a.w. AMM	B1; B2			
				Review Aircraft maintenance Log for correct completion	B1; B2			
				Review records for compliance with airworthiness directives.	B1; B2			
				Review records for compliance with component life limits.	B1; B2			
				Procedure for Inspection following heavy landing.	B1; B2			
				Procedure for Inspection following lightning strike.	B1; B2			
			06	Dimensions/Areas				
				Locate component(s) by zone/station number.	B1; B2			
				Perform symmetry check.	B1; B2			
				Lifting and Shoring	B1; B2			
				Assist in :				
				Jack aircraft nose or tail wheel.	B1			
				Jack complete aircraft.	B1			
				Sling or trestle major component.	B1			
			08	Levelling/Weighing				
				Level aircraft	B1			
				Weigh aircraft	B1			
				Prepare weight and balance amendment.	B1			
				Check aircraft against equipment list.	B1			
			09	Towing and Taxiing				
				Prepare aircraft for towing	B1			
				Tow aircraft	B1			
				Be part of aircraft towing team	B1			
			10	Parking and mooring				
				Tie down aircraft	B1			
				Park, secure and cover aircraft	B1			

			Position aircraft in maintenance dock	B1			
			Secure rotor blades	B1			
		11	Placards and Markings				
			Check aircraft for correct placards.	B1			
			Check aircraft for correct markings.	B1			
		12	Servicing				
			Refuel aircraft	B1			
			Defuel aircraft	B1			
			Carry out tank to tank fuel transfer	B1			
			Check/adjust tire pressures	B1			
			Check/replenish oil level	B1			
			Check/replenish hydraulic fluid level	B1			
			Check/replenish accumulator pressure	B1			
			Charge pneumatic system	B1			
			Grease aircraft	B1			
			Connect ground power	B1			
			Service toilet/water system	B1			
			Perform pre-flight/daily check	B1			
		18	Vibration and Noise Analysis				
			Analyse helicopter vibration problem	B1; B2			
			Analyse noise spectrum	B1; B2			
			Analyse engine vibration	B1; B2			
		21	Air Conditioning				
			Replace combustion heater	B1			
			Replace flow control valve	B1			
			Replace outflow valve	B1			
			Replace safety valve	B1			
			Replace vapour cycle unit	B1			
			Replace air cycle unit	B1			
			Replace cabin blower	B1			
			Replace heat exchanger	B1			
			Replace pressurization controller	B1			
			Clean outflow valves	B1			
			Check operation of air conditioning/heating system	B1			
			Check operation of pressurization system	B1; B2			
			Troubleshoot faulty system	B1; B2			
		22	Auto Flight				
			Install servos	B2			
			Rig bridge cables	B2			
			Replace controller	B2			
			Replace amplifier	B2			
			Replacement of the auto flight system LRUs in case of the fly-by-wire aircraft	B2			
			Check operation of auto pilot	B2			
			Check operation of auto-throttle/auto-thrust	B2			
			Check operation of yaw damper	B2			
			Check and adjust servo clutch	B2			
			Perform autopilot gain adjustments	B2			
			Perform mach trim functional check	B2			
			Troubleshoot faulty system	B2			
			Check flight management systems	B2			
			Check stability augmentation system	B2			
		23	Communications				
			Replace VHF com unit	B2			
			Replace HF com unit	B2			
			Replace existing antenna	B2			
			Replace static discharge wicks	B2			

			Check operation of radios	B2		
			Perform antenna VSWR check	B2		
			Perform Selcal operational check of passenger address system	B2		
			Functionally check audio integrating system	B2		
			Repair co-axial cable	B2		
			Troubleshoot faulty system	B2		
		24	Electrical Power			
			Charge lead/acid battery	B1; B2		
			Charge ni-cad battery	B1; B2		
			Check battery capacity	B1; B2		
			Deep-cycle ni-cad battery	B1; B2		
			Replace integrated drive/generator /alternator	B1; B2		
			Replace switches	B1; B2		
			Replace circuit breakers	B1; B2		
			Adjust voltage regulator	B1; B2		
			Change voltage regulator	B1; B2		
			Amend electrical load analysis report	B1; B2		
			Repair/replace electrical feeder cable	B1; B2		
			Troubleshoot faulty system	B1; B2		
			Perform functional check of integrated drive/generator/alternator	B1; B2		
			Perform functional check of voltage regulator	B1; B2		
		25	Equipment/Furnishings			
			Replace carpets	B1		
			Replace crew seats	B1		
			Replace passenger seats	B1		
			Check inertia reels	B1		
			Check seats/belts for security	B1		
			Check emergency equipment	B1; B2		
			Check ELT for compliance with regulations	B1		
			Repair toilet waste container	B1		
			Repair upholstery	B1		
			Change cabin configuration	B1		
			Replace cargo loading system actuator	B1		
			Test cargo loading system	B1		
			Replace escape slides/ropes	B1		
		26	Fire protection			
			Check fire bottle contents	B1		
			Check/test operation of fire/smoke detection and warning system	B1; B2		
			Check cabin fire extinguisher contents	B1		
			Check lavatory smoke detector system	B1		
			Install new fire bottle	B1		
			Check cargo panel sealing	B1		
			Replace fire bottle squib	B1		
			Troubleshoot faulty system	B1		
			Inspect engine fire wire detection systems	B1; B2		
		27	Flight Controls			
			Inspect primary flight controls and related components i.a.w. AMM	B1		
			Extending/retracting flaps & slats	B1		
			Replace horizontal stabilizer	B1		
			Replace spoiler/lift dumper	B1		
			Replace elevator	B1		
			Deactivation/reactivation of aileron servo control	B1		
			Replace aileron	B1		

			Replace rudder	B1			
			Replace trim tabs	B1			
			Install control cable and fittings	B1			
			Replace slats	B1			
			Replace flaps	B1			
			Replace powered flying control unit	B1			
			Replace flat actuator	B1			
			Rig primary flight controls	B1			
			Adjust control cable tension	B1			
			Check control range and direction of movement	B1			
			Check for correct assembly and locking	B1			
			Troubleshoot faulty system	B1; B2			
			Functional test of primary flight controls	B1			
			Functional test of flap system	B1			
			Operational test of the side stick assembly	B1			
			Operational test of the THS	B1			
			THS system wear check	B1			
		28	Fuel				
			Water drain system (operation)	B1			
			Replace booster pump	B1			
			Replace fuel tank cells	B1			
			Replace/test fuel control valves	B1			
			Replace magnetic fuel level indicators	B1			
			Replace water drain valve	B1			
			Check/calculate fuel contents manually	B1			
			Check filters	B1			
			Flow check system	B1			
			Check calibration of fuel quantity gauges	B1; B2			
			Check operation feed/selectors	B1; B2			
			Check operation of fuel dump/jettison system	B1			
			Fuel transfer between tanks	B1			
			Pressure re-fuel (manual control)	B1			
			Deactivation/reactivation of the fuel valves (transfer de-fuel, X-feed, re-fuel)	B1			
			Troubleshoot faulty system	B1; B2			
		29	Hydraulics				
			Replace engine driven pump	B1			
			Check/replace case drain filter	B1			
			Replace standby pump	B1			
			Replace hydraulic motor pump/generator	B1			
			Replace accumulator	B1			
			Check operation of shut off valve	B1			
			Check filters/clog indicators	B1			
			Check indicating systems	B1			
			Perform functional checks	B1			
			Troubleshoot faulty system	B1			
			Pressurisation/depressurization of the hydraulic system	B1			
			PTU operation	B1			
		30	Ice and rain protection				
			Replace pump	B1			
			Replace timer	B1			
			Inspect repair propeller deice boot	B1			
			Test repair propeller de-icing system	B1			
			Inspect/test wing leading edge de-icer boot	B1			
			Replace anti-ice/deice valve	B1			
			Install wiper motor	B1			
			Check operation of systems	B1			
			Operational test of the pitot-probe ice	B1			

			protection				
			Operational test of the TAT ice protection	B1			
			Operational test of the wing ice protection system	B1			
			Assistance to the operational test of the engine air-intake ice protection (with engines in operation)	B1			
			Troubleshoot faulty system	B1; B2			
		31	Indicating/recording systems				
			Replace flight data recorder	B1; B2			
			Replace cockpit voice recorder	B1; B2			
			Replace clock	B1; B2			
			Replace master caution unit	B1; B2			
			Replace FDR	B1; B2			
			Perform FDR data retrieval	B1; B2			
			Troubleshoot faulty system	B1; B2			
			Implement ESDS procedures	B1; B2			
			Inspect for HIRF requirements	B1; B2			
			Start/stop EIS procedure	B1; B2			
			Bite test of the CFDIU	B1; B2			
			Ground scanning of the central warning system	B1; B2			
		32	Landing Gear				
			Build up wheel	B1			
			Replace main wheel	B1			
			Replace nose wheel	B1			
			Replace shimmy damper	B1			
			Replace steering actuator	B1			
			Replace truck tilt actuator	B1			
			Replace gear retraction actuator	B1			
			Replace uplock/dowlock assembly	B1			
			Replace shimmy damper	B1			
			Rig nose wheel steering	B1			
			Functional test of the nose wheel steering system	B1			
			Replace shock strut seals	B1			
			Servicing of shock strut	B1			
			Replace break unit	B1			
			Replace break control valve	B1			
			Bleed brakes	B1			
			Replace brake fan	B1			
			Test anti skid unit	B1			
			Test gear retraction	B1			
			Change bungees	B1			
			Adjust micro switches/sensors	B1			
			Charge struts with oil and air	B1			
			Troubleshoot faulty system	B1			
			Test outbrake system	B1			
			Replace rotorcraft skids	B1			
			Replace rotorcraft skid shoes	B1			
			Pack and check floats	B1			
			Check/test emergency blowdown	B1			
			Operational test of the landing gear doors	B1			
		33	Lights				
			Repair/replace rotating beacon	B1; B2			
			Repair/replace landing lights	B1; B2			
			Repair/replace navigation lights	B1; B2			
			Repair/replace interior lights	B1; B2			
			Replace ice inspection lights	B1; B2			
			Repair/replace logo lights	B1; B2			
			Repair/replace emergency lighting system	B1; B2			

			Perform emergency lighting system checks	B1; B2			
			Troubleshoot faulty system	B1; B2			
		34	Navigation				
			Calibrate magnetic direction indicator	B2			
			Replace airspeed indicator	B2			
			Replace altimeter	B2			
			Replace air data computer	B2			
			Replace VOR unit	B2			
			Replace ADI	B2			
			Replace HIS	B2			
			Check pilot static system for leaks	B1; B2			
			Check operation of directional gyro	B2			
			Functional check weather radar	B2			
			Functional check Doppler	B2			
			Functional check TCAS	B2			
			Functional check DME	B2			
			Functional check ATC Transponder	B2			
			Functional check flight director system	B2			
			Functional check inertial nav system	B2			
			Complete quadrantal error correction of ADF system	B2			
			Update flight management system database	B2			
			Check calibration of pilot static instruments	B2			
			Check calibration of pressure altitude reporting system	B2			
			Troubleshoot faulty system	B2			
			Check marker systems	B2			
			Compass replacement direct/indirect	B2			
			Check Satcom	B2			
			Check GPS	B2			
			Test AVM	B2			
		35	Oxygen				
			Inspect on board oxygen equipment	B1			
			Purge and recharge oxygen system	B1			
			Replace regulator	B1			
			Replace oxygen generator	B1			
			Test crew oxygen system	B1			
			Perform auto oxygen system deployment check	B1			
			Troubleshoot faulty system	B1			
		36	Pneumatic systems				
			Raplace filter	B1			
			Replace air shut off valve	B1			
			Replace pressure regulating valve	B1			
			Replace compressor	B1			
			Recharge dessicator	B1			
			Adjust regulator	B1			
			Check for leaks	B1			
			Troubleshoot faulty system	B1			
		37	Vacuum systems				
			Inspect the vacuum system i.a.w. AMM	B1			
			Replace vacuum pump	B1			
			Check/replace filters	B1			
			Adjust regulator	B1			
			Troubleshoot faulty system	B1			
		38	Water/Waste				
			Replace water pump	B1			
			Replace tap	B1			
			Replace toilet pump	B1			

			Troubleshoot faulty system	B1			
			Inspect waste bin flap closure	B1			
		45	Central Maintenance System				
			Retrieve data from CMU	B1; B2			
			Replace CMU	B1; B2			
			Perform Bite check	B1; B2			
			Troubleshoot faulty system	B1; B2			
		49	Airborne Auxiliary power				
			Install APU	B1			
			Inspect hot section	B1			
			Troubleshoot faulty system	B1; B2			
		51	Structures				
			Sheet metal repair	B1			
			Fibre glass repair	B1			
			Wooden repair	B1			
			Fabric repair	B1			
			Recover fabric control surface	B1			
			Treat corrosion	B1			
			Apply protective treatment	B1			
		52	Doors				
			Inspect passenger door i.a.w. AMM	B1			
			Rig/adjust locking mechanism	B1			
			Adjust air stair system	B1			
			Check operation of emergency exits	B1			
			Test door warning system	B1			
			Troubleshoot faulty system	B1			
			Remove and install passenger door i.a.w. AMM	B1			
			Remove and install emergency i.a.w. AMM	B1			
			Inspect cargo door i.a.w. AMM	B1			
		56	Windows				
			Replace windshield	B1			
			Replace direct vision window	B1			
			Replace cabin window	B1			
			Repair transparency	B1			
		57	Wings				
			Skin repair	B1			
			Recover fabric wing	B1			
			Replace tip	B1			
			Replace rib	B1			
			Replace integral fuel tank panel	B1			
			Check incidence/rig	B1			
		60	Propeller				
			Assemble prop after transportation	B1			
			Replace propeller	B1			
			Replace governor	B1			
			Adjust governor	B1			
			Perform static functional checks	B1			
			Check operation during ground run	B1			
			Check track	B1			
			Check setting of micro switches	B1			
			Assessment of blade damage i.a.w. AMM	B1			
			Dynamically balance prop	B1			
			Troubleshoot faulty system	B1			
		62	Main Rotors				
			Install rotor assembly	B1			

			Replace blades	B1			
			Replace damper assembly	B1			
			Check track	B1			
			Check static balance	B1			
			Check dynamic balance	B1			
			Troubleshoot	B1			
		63	Rotor Drive				
			Replace mast	B1			
			Replace drive coupling	B1			
			Replace clutch/freewheel unit	B1			
			Replace drive belt	B1			
			Install main gearbox	B1			
			Overhaul main gearbox	B1			
			Check gearbox chip detectors	B1			
		64	Tail Rotors				
			Install rotor assembly	B1			
			Replace blades	B1			
			Troubleshoot	B1			
		65	Tail Rotor Drive				
			Replace bevel gearbox	B1			
			Replace universal joints	B1			
			Overhaul bevel gearbox	B1			
			Install drive assembly	B1			
			Check chip detectors	B1			
			Check/install bearings and hangers	B1			
			Check/service/assemble flexible couplings	B1			
			Check alignment of drive shafts	B1			
			Install and rig drive shafts	B1			
		67	Rotorcraft flight controls				
			Install swash plate	B1			
			Install mixing box	B1			
			Adjust pitch links	B1			
			Rig collective system	B1			
			Rig cyclic system	B1			
			Rig anti-torque system	B1			
			Check controls for assembly and locking	B1			
			Check controls for operation and sense	B1			
			Troubleshoot faulty system	B1			
		71	Power Plant				
			Build up ECU	B1			
			Replace engine	B1			
			Repair cooling baffles	B1			
			Repair cowling	B1			
			Adjust cowl flaps	B1			
			Repair faulty wiring	B1			
			Troubleshoot	B1			
			Assist in dry motoring check	B1			
			Assist in wet motoring check	B1			
			Assist in engine start (manual mode)	B1			
		72	Piston Engines				
		R	Remove/install reduction gear	B1			
			Check crankshaft run-out	B1			
			Check tappet clearance	B1			
			Check compression	B1			
			Extract broken stud	B1			
			Install helicoil	B1			
			Perform ground run	B1			

			Establish/check reference RPM	B1			
			Troubleshoot	B1			
		72	Turbine Engine				
		T	Replace module	B1			
			Replace fan blade	B1			
			Hot section inspection/boroscope check	B1			
			Carry out engine/compressor wash	B1			
			Carry out engine dry cycle	B1			
			Engine ground run	B1			
			Establish reference power	B1			
			Trend monitoring/gas path analysis	B1			
			Troubleshoot	B1			
		73	Fuel and control, piston				
			Replace engine driven pump	B1			
			Adjust AMC	B1			
			Adjust ABC	B1			
			Install carburettor/injector	B1			
			Adjust carburetor/injector	B1			
			Clean injector nozzles	B1			
			Replace primer line	B1			
			Check carburetor float setting	B1			
			Troubleshoot faulty system	B1			
		73	Fuel and control, turbine				
			Replace FCU	B1			
			Replace Engine Electronic Control Unit (FADEC)	B1; B2			
			Replace Fuel Metering Unit (FADEC)	B1			
			Replace engine driven pump	B1			
			Clean/test fuel nozzles	B1			
			Clean/replace filters	B1			
			Adjust FCU	B1			
			Troubleshoot faulty system	B1; B2			
			Functional test of FADEC	B1; B2			
		74	Ignition systems, piston				
			Change magneto	B1			
			Change ignition vibrator	B1			
			Change plugs	B1			
			Test plugs	B1			
			Check H. T. leads	B1			
			Install new leads	B1			
			Check timing	B1			
			Check system bonding	B1; B2			
			Troubleshoot faulty system	B1; B2			
		74	Ignition systems, turbine				
			Perform functional test of the ignition system	B1			
			Check glow plugs/ignitors	B1			
			Check H.T. leads	B1			
			Check ignition unit	B1			
			Replace ignition unit	B1			
			Troubleshoot faulty system	B1; B2			
		76	Engine Controls				
			Rig thrust lever	B1			
			Rig RPM control	B1			
			Rig mixture HP cock lever	B1			
			Rig power lever	B1			
			Check control sync (multi-eng)	B1			
			Check controls for correct assembly and	B1			

			locking				
			Check controls for range and direction of movement	B1			
			Adjust pedestal micro-switches	B1			
			Troubleshoot faulty system	B1			
		77	Engine Indicating				
			Replace engine instruments	B1; B2			
			Replace oil temperature bulb	B1; B2			
			Replace thermocouples	B1; B2			
			Check calibration	B1; B2			
			Troubleshoot faulty system	B1; B2			
		78	Exhaust, piston				
			Replace exhaust gasket	B1			
			Inspect welder repair	B1			
			Pressure check cabin heater muff	B1			
			Troubleshoot faulty system	B1			
		78	Exhaust, turbine				
			Change jet pipe	B1			
			Change shroud assembly	B1			
			Install trimmers	B1			
			Inspect/replace thrust reverser	B1			
			Replace thrust reverser component	B1			
			Deactivate/reactivate thrust reverser	B1			
			Operational test of the thrust reverser system	B1			
		79	Oil				
			Change oil	B1			
			Check filter(s)	B1			
			Adjust pressure relief valve	B1			
			Replace oil tank	B1			
			Replace oil pump	B1			
			Replace oil cooler	B1			
			Replace firewall shut off valve	B1			
			Perform oil dilution test	B1			
			Troubleshoot faulty system	B1			
		80	Starting				
			Replace starter	B1			
			Replace start relay	B1			
			Replace start control valve	B1			
			Check cranking speed	B1			
			Troubleshoot faulty system	B1			
		81	Turbines, piston engines				
			Replace PRT	B1			
			Replace turbo-blower	B1			
			Replace heat shields	B1			
			Replace waste gate	B1			
			Adjust density controller	B1			
		82	Engine water injection				
			Replace water/methanol pump	B1			
			Flow check water/methanol system	B1			
			Adjust water/methanol control unit	B1			
			Check fluid for quality	B1			
			Troubleshoot faulty system	B1			
		83	Accessory gear boxes				
			Replace gearbox	B1			
			Replace drive shaft	B1			

				Inspect magnetic chip detector	B1			
			49	APU				
				Removal/installation of the APU	B1			
				Removal/installation of the inlet guide-vane actuator	B1			
				Operational test of the APU emergency shut down test	B1			
				Operational test of the APU	B1			