

Identification of the training organisation(s) & basic training course			
Training Organisation Name:			
Approval Number:			
Course Title:			
Course Reference			
Date of creation/ revision			
Category (B1.4):	B1.4		
Total duration Theoretical Basic Training	hours		
Total duration Practical Basic Training	Hours		
Theoretical ratio training	%		
30 % practical training performed in actual	Delivered by the Part 147 organisation:	or	Received at following Maintenance Organisation

Identification of the training organisation(s) & basic training course			
maintenance environment:	☐		(Name, location, approval number):

Module		Level*	Tuition hours**	Training Provider (ATO or S/C) ?***
1. Mathematics	arithmetic	2		
	algebra	2		
	geometry	2		
2. Physics	Matter	1		
	mechanics	2		
	thermodynamics	2		
	Optics (light)	2		
	Wave motion and sound	2		
3. Electrical Fundamentals	Electron theory	1		
	Static electricity and conduction	2		
	Electrical terminology	2		
	Generation of electricity	1		
	DC sources of electricity	2		
	DC circuits	2		
	Resistance/ resistor	2		
	power	2		
	Capacitance/ capacitor	2		
	magnetism	2		
	Inductance/ inductor	2		
	DC motor/ generator theory	2		
	AC theory	2		
	Resistive (R), Capacitive (C) and Inductive (L) circuits	2		
	transformers	2		
	filters	1		
	AC generators	2		

Module		Level*	Tuition hours**	Training Provider (ATO or S/C) ?***
	AC motors	2		
4. Electronic Fundamentals	semiconductors	2		
	Printed circuit boards	1		
	servomechanisms	1		
5. Digital Techniques Electronic Instrument Systems	Electronic instrument systems	2		
	Numbering systems			
	Data conversion			
	Data buses			
	Logic circuits			
	Basic computer structure			
	Microprocessors			
	Integrated circuits			
	Multiplexing			
	Fibre optics	1		
	Electronic displays	1		
	Electrostatic sensitive devices	2		
	Software management control	1		
	Electromagnetic environment	2		
	Typical electronic/digital aircraft systems	2		
6. Materials and Hardware	Aircraft materials-ferrous	2		
	Aircraft materials-non ferrous	2		
	Aircraft materials-composite and non-metallic	2		

Module		Level*	Tuition hours**	Training Provider (ATO or S/C) ?***
	Corrosion	3		
	Fasteners	2		
	Pipes and unions	2		
	Springs	2		
	Bearings	2		
	Transmissions	2		
	Control cables	2		
	Electrical cables and connectors	2		
7. Maintenance Practices	Safety precautions-aircraft and workshop	3		
	Workshop practices	3		
	Tools	3		
	Avionic general test equipment	2		
	Engineering drawings, diagrams and standards	2		
	Fits and clearances	2		
	Electrical Wiring Interconnection System (EWIS)	3		
	Riveting	2		
	Pipes and hoses	2		
	Springs	2		
	bearings	2		
	Transmissions	2		
	Control cables	2		
	Material handling	2		
	Welding, brazing, soldering and bonding	2		
	Aircraft weight and balance	2		

Module		Level*	Tuition hours**	Training Provider (ATO or S/C) ?***
	Aircraft handling and storage	2		
	Disassembly, inspection, repair and assembly techniques	3		
	Abnormal events	2		
	Maintenance procedures	2		
8. Basic Aerodynamics	Physics of the atmosphere	2		
	Aerodynamics	2		
	Theory of flight	2		
	Flight stability and dynamics	2		
9. Human Factors.	General	2		
	Human performance and limitations	2		
	Social psychology	1		
	Factors affecting performance	2		
	Physical environment	1		
	Tasks	1		
	Communication	2		
	Human error	2		
	Hazard in the workplace	2		
10. Aviation Legislation	Regulatory framework	1		
	certifying staff-maintenance	2		

Module		Level*	Tuition hours**	Training Provider (ATO or S/C) ?***
	approved maintenance organisations	2		
	Air operations	1		
	certification of aircraft, parts and appliances	2		
	Continuing airworthiness	2		
	Applicable National and International requirements	2		
12. Helicopter Aerodynamics, Structures and Systems	Theory of flight- rotary wings aerodynamics	2		
	Flight control systems	3		
	Blade tracking and vibration analysis	3		
	transmissions	3		
	Airframe structures	2		
	Air conditioning (ATA21)	3		
	Instruments/ avionics systems	2		
	Electrical power (ATA 24)	3		
	Equipment and furnishings (ATA 25)	2		
	Fire protection (ATA26)	3		
	Fuel systems (ATA 28)	3		
	Hydraulic power (ATA 29)	3		

Module		Level*	Tuition hours**	Training Provider (ATO or S/C) ?***
	Ice and Rain protection (ATA 30)	3		
	Landing gear (ATA 32)	3		
	Lights (ATA 33)	3		
	Pneumatics/vacuum (ATA 36)	3		
	Integrated Modular Avionics (ATA42)	2		
	On board maintenance systems (ATA 45)	2		
	Information Systems (ATA46)	2		
16. piston engine	Fundamentals	2		
	Engine performance	2		
	Engine construction	2		
	Engine fuel systems	2		
	Starting and Ignition systems	2		
	Inductions, exhaust and cooling systems	2		
	Supercharging/ turbo charging	2		
	Lubricants and fuels	2		
	Lubrication systems	2		
	Engine indication systems	2		
	Powerplant installation	2		
	Engine monitoring and ground operation	3		
	Engine storage and preservation	2		

* For category “B”

** These hours exclude ‘self study’ and examination hours

*** please indicate when the training is sub-contracted as per 147.A.145 (d)

	date	Name, position & signature
Form filled by:		
Quality Assurance validation:		
CAAT Officials used only: ☐ Accepted ☐ Rejected (DD-MM-YYYY)		
Remarks: 		
CAAT Officer Name:	Date: (DD-MM-YYYY)	Signature:

Note: ONCE accepted by CAAT, please insert a copy of this form in your MTOE, Part 4