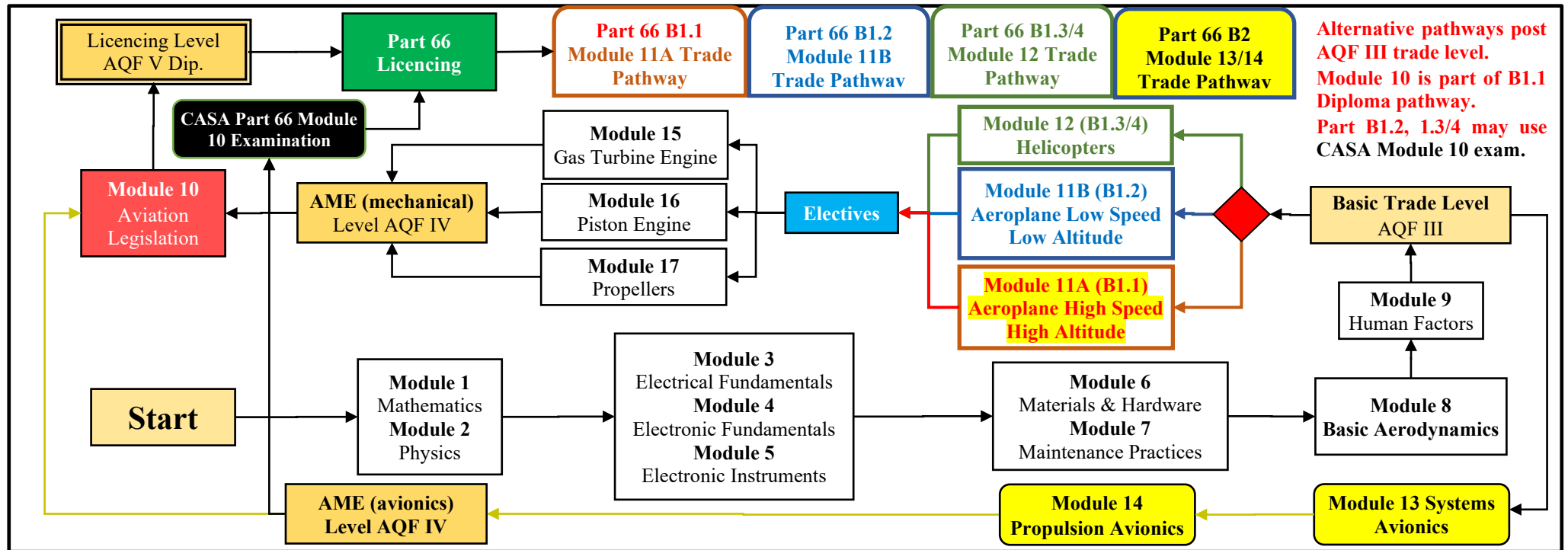


EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

The following chart identifies the specialised pathways for a basic aircraft maintenance engineer tradesperson, AQF level III, to basically specialise in either the airframe & airframe systems of large, pressurised aeroplane, small aeroplane or helicopter. Bridging courses between each pathway is a necessity to assist with transportability of qualifications between each of these maintenance fields.

AME Three Separate AME (mechanical) Trade Pathways



Note:, Depending on the pathway selected by the student to match employment, some aspects of Modules 7 & 8 may need to be biased for the module 11A or 11B or 12 pathways.

The following charts are based on the splitting of Module 11 into two different trade-based pathways for module *11A, Turbine Aeroplane Aerodynamics, Structures & Systems* and *11B piston Aeroplane Aerodynamics, Structures & Systems*. Helicopter pathway is through the module 12 pathway and not Module 11. Module 12 *Helicopter Aerodynamics, Structures & Systems* This chart also states the training levels underpinning the CASA AME licences.

Though the modules are presented as a flowchart, a competency-based training package will include these modules within the training package.

- **Bridging courses** between module 11A, 11B and 12 will add to the flexibility and transportability of AQF qualification across these 3 sectors of aviation.
- Current tradespersons have attained these skills through OTJ training during employment so don't require retraining.
- This will provide attractive pathways to become trade qualified and the proceed to the licencing pathway.

EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

MODULE 11A. Turbine Aeroplane Aerodynamics, Structures & Systems			MODULE 11B. Piston Aeroplane Aerodynamics, Structures & Systems				MODULE 12. Helicopter Aerodynamics, Structures & Systems		
	Trg Level			Trg Level			Trg Level		
	A1	B1.1		A2	B1.2		A3 A4	B1.3 B1.4	
			<p><i>Note 1:</i> This module does not apply to category B3. Relevant subject matters for category B3 are defined in Module 11C. (not yet adopted by CASA)</p> <p><i>Note 2:</i> The scope of this Module shall reflect the technology of aeroplanes pertinent to the A2 and B1.2 Licence subcategory.</p>						
11.1 Theory of Flight			11.1 Theory of Flight				12.1 Theory of Flight		
11.1.1. Aeroplane Aerodynamics and Flight Controls			11.1.1. Aeroplane Aerodynamics and Flight Controls				12.1 Theory of Flight - Rotary Wing Aerodynamics		
Operation and effect of: - - - roll control: ailerons and spoilers, - pitch control: elevators, stabilators, <u>variable incidence stabilisers and canards</u> , - yaw control, rudder limiters; Control using elevons, ruddervators; High lift devices, slots, slats, flaps, flaperons; Drag inducing devices, spoilers, lift dumpers, speed brakes; Effects of wing fences, saw tooth leading edges; Boundary layer control using, vortex generators, stall wedges or leading-edge devices; Operation and effect of trim tabs, balance and antibalance (leading) tabs, servo tabs, spring tabs, mass balance, control surface bias, aerodynamic balance panels.	1	2	Operation and effect of: -roll control: ailerons and spoilers, -pitch control: elevators, stabilators and canards, -yaw control, rudder limiters; Control using elevons, ruddervators; High lift devices, slots, slats, flaps, flaperons; Drag inducing devices, spoilers, lift dumpers, speed brakes; Effects of wing fences, saw tooth leading edges; Boundary layer control using, vortex generators, stall wedges or leading-edge devices; Operation and effect of trim tabs, balance and antibalance (leading) tabs, servo tabs, spring tabs, mass balance, control surface bias, aerodynamic balance panels.	1	2	Terminology; Effects of gyroscopic precession; Torque reaction and directional control; Dissymmetry of lift, Blade tip stall; Translating tendency and its correction; Coriolis effect and compensation; Vortex ring state, power settling, overpitching; Auto-rotation; Ground effect.	1	2	
11.1.2. High Speed Flight			11.1.2 High Speed Flight - N/A						
Speed of sound, subsonic flight, transonic flight, supersonic flight; Mach number, critical Mach number, compressibility buffet, shock wave, aerodynamic heating, area rule; Factors affecting airflow in engine intakes of high-speed aircraft; Effects of sweepback on critical Mach number.	1	2		—	—				

EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

MODULE 11A. Turbine Aeroplane Aerodynamics, Structures & Systems			MODULE 11B. Piston Aeroplane Aerodynamics, Structures & Systems			MODULE 12. Helicopter Aerodynamics, Structures & Systems		
	Trg Level			Trg Level			Trg Level	
	A1	B1.1		A2	B1.2		A3 A4	B1.3 B1.4
11.2 Airframe Structures – General Concepts			11.2 Airframe Structures – General Concepts			12.2 Flight Control Systems		
(a) Airworthiness requirements for structural strength; Structural classification, primary, secondary and tertiary; Fail safe, safe life, damage tolerance concepts; Zonal and station identification systems; Stress, strain, bending, compression, shear, torsion, tension, hoop stress, fatigue; Drains and ventilation provisions; System installation provisions; Lightning strike protection provision; Aircraft bonding.	2	2	(a) Airworthiness requirements for structural strength; Structural classification, primary, secondary and tertiary; Fail safe, safe life, damage tolerance concepts; Zonal and station identification systems; Stress, stress, strain, bending, compression, shear, torsion, tension, hoop stress, fatigue; Drains and ventilation provisions; System installation provisions; Lightning strike protection provision; Aircraft bonding.	2	2	Cyclic control; Collective control; Swash plate; Yaw control: Anti-Torque Control, Tail rotor, bleed air; Main Rotor Head: Design and Operation features; Blade Dampers: Function and construction; Rotor Blades: Main and tail rotor blade construction and attachment; Trim control, fixed and adjustable stabilisers; System operation: manual, hydraulic, electrical and fly-by wire; Artificial feel; Balancing and rigging.	2	3
(b) Construction methods of: stressed skin fuselage, formers, stringers, longerons, bulkheads, frames, doublers, struts, ties, beams, floor structures, reinforcement, methods of skinning, anti-corrosive protection, wing, empennage and engine attachments; Structure assembly techniques: riveting, bolting, bonding; Methods of surface protection, such as chromating, anodising, painting; Surface cleaning; Airframe symmetry: methods of alignment and symmetry checks.	1	2	(b) construction methods of: stressed skin fuselage, formers, stringers, longerons, bulkheads, frames, doublers, struts, ties, beams, floor structures, reinforcement, methods of skinning, anti-corrosive protection, wing, empennage and engine attachments; Structure assembly techniques: riveting, bolting, bonding; Methods of surface protection, such as chromating, anodising, painting; Surface cleaning; Airframe symmetry: methods of alignment and symmetry checks.	1	2			

EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

MODULE 11A. Turbine Aeroplane Aerodynamics, Structures & Systems			MODULE 11B. Piston Aeroplane Aerodynamics, Structures & Systems			MODULE 12. Helicopter Aerodynamics, Structures & Systems		
	Trg Level			Trg Level			Trg Level	
	A1	B1.1		A2	B1.2		A3 A4	B1.3 B1.4
11.3 Airframe Structures - Aeroplanes			11.3 Airframe Structures Aeroplanes			12.3 Blade Tracking & Vibration Analysis		
<i>11.3.1 Fuselage {ATA 52/53/56}</i>			<i>11.3.1 Fuselage (ATA 52/53/56)</i>			<i>12.3 Blade Tracking & Vibration Analysis</i>		
Construction and pressurisation sealing; Wing, stabiliser, pylon & undercarriage attachments; Seat installation and cargo loading system; Doors and emergency exits: construction, mechanisms, operation and safety devices; Windows & windscreen construction & mechanisms.	1	2	Construction and pressurisation sealing; Wing, tail-plane, pylon and undercarriage attachments; Seat installation; Doors and emergency exits: construction and operation; Windows and windscreen attachment.	1	2	Rotor alignment; Main and tail rotor tracking; Static and dynamic balancing; Vibration types, vibration reduction methods; Ground resonance.	1	3
11.3.2 Wings (ATA 57) Construction; Fuel storage; Landing gear, pylon, control surface and high lift/drag attachments.	1	2	11.3.2 Wings (ATA 57) Construction; Fuel storage; Landing gear, pylon, control surface and high lift/drag attachments.	1	2			
11.3.3 Stabilisers (ATA 55) Construction; Control surface attachment.	1	2	11.3.3 Stabilisers (ATA 55) Construction; Control surface attachment.	1	2			
11.3.4 Flight Control Surfaces (ATA 55/57) Construction and attachment; Balancing - mass and aerodynamic.	1	2	11.3.4 Flight Control Surfaces (ATA 55/57) Construction and attachment; Balancing - mass and aerodynamic.	1	2			
11.3.5 Nacelles/Pylons (ATA 54) Nacelles/Pylons: - - - Construction, - Firewalls, - Engine mounts.	1	2	11.3.5 Nacelles/Pylons (ATA 54) Nacelles/Pylons: - - - Construction, - Firewalls, - Engine mounts.	1	2			
11.4 Air Conditioning and Cabin Pressurisation (ATA 21)			11.4 Air Conditioning and Cabin Pressurisation (ATA 21)			12.4 Transmission		
11.4.1 Air supply Sources of air supply including engine bleed, APU and ground cart.	1	2	Pressurisation and air conditioning systems; Cabin pressure controllers, protection and warning devices; Heating systems.	1	3	Gear boxes, main and tail rotors; Clutches, free wheel units and rotor brake;	1	3

EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

MODULE 11A. Turbine Aeroplane Aerodynamics, Structures & Systems			MODULE 11B. Piston Aeroplane Aerodynamics, Structures & Systems				MODULE 12. Helicopter Aerodynamics, Structures & Systems		
	Trg Level			Trg Level			Trg Level		
	A1	B1.1		A2	B1.2		A3	B1.3	
							A4	B1.4	
						Tail rotor drive shafts, flexible couplings, bearings, vibration dampers and bearing hangers.			
11.4.2 Air Conditioning Air conditioning systems; Air cycle and vapour cycle machines; Distribution systems; Flow, temperature and humidity control system.	1	3							
11.4.3 Pressurisation Pressurisation systems; Control and indication including control and safety valves; Cabin pressure controllers.	1	3							
11.4.4 Safety and warning devices Protection and warning devices.	1	3							
11.5 Instruments/Avionic Systems			11.5 Instruments/Avionic Systems			12.5 Airframe Structures			
11.5.1 Instrument Systems (ATA 31} Pitot static: altimeter, air speed indicator, vertical speed indicator; Gyroscopic: artificial horizon, attitude director, direction indicator, horizontal situation indicator, turn and slip indicator, turn coordinator; Compasses: direct reading, remote reading; Angle of attack indication, stall warning systems; Glass cockpit; Other aircraft system indication.	1	2	11.5.1 Instrument Systems (ATA 31} Pitot static: altimeter, air speed indicator, vertical speed indicator; Gyroscopic: artificial horizon, attitude director, direction indicator, horizontal situation indicator, turn and slip indicator, turn coordinator; Compasses: direct reading, remote reading; Angle of attack indication, stall warning systems; Glass cockpit; Other aircraft system indication.	1	2	(a) Airworthiness requirements for structural strength; Structural classification, primary, secondary and tertiary; Fail safe, safe life, damage tolerance concepts; Zonal and station identification systems; Stress, strain, bending, compression, shear, torsion, tension, hoop stress, fatigue; Drains and ventilation provisions; System installation provisions; Lightning strike protection provision; (b) Construction methods of: stressed skin fuselage, formers, stringers, longerons, bulkheads, frames, doublers, struts, ties, beams, floor structures, reinforcement,	2	2	

EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

MODULE 11A. Turbine Aeroplane Aerodynamics, Structures & Systems			MODULE 11B. Piston Aeroplane Aerodynamics, Structures & Systems			MODULE 12. Helicopter Aerodynamics, Structures & Systems		
	Trg Level			Trg Level			Trg Level	
	A1	B1.1		A2	B1.2		A3 A4	B1.3 B1.4
						methods of skinning and anti-corrosive protection. Pylon, stabiliser and undercarriage attachments; Seat installation; Doors: construction, mechanisms, operation and safety devices; Windows and windscreen construction; Fuel storage; Firewalls; Engine mounts; Structure assembly techniques: riveting, bolting, bonding; Methods of surface protection, such as chromating, anodising, painting; Surface cleaning. Airframe symmetry: methods of alignment and symmetry checks.		
11.5.2 Avionic Systems Fundamentals of system lay-outs and operation of: - Auto Flight (ATA 22), - Communications (ATA 23), - Navigation Systems (ATA 34).	1	1	11.5.2 Avionic Systems Fundamentals of system lay-outs and operation of: - Auto Flight (ATA 22), - Communications (ATA 23), - Navigation Systems (ATA 34).	1	1			
11.6 Electrical Power (ATA 24)			11.6 Electrical Power (ATA 24)			12.6 Air Conditioning {ATA 21}		
Batteries installation and Operation; DC power generation; AC power generation; Emergency power generation; Voltage regulation; Power distribution; Inverters, transformers, rectifiers; Circuit protection; External/Ground power.	1	3	Batteries Installation and Operation; DC power generation; Voltage regulation; Power distribution; Circuit protection; Inverters, transformers.	1	3	12.6.1 Air supply Sources of air supply including engine bleed and ground cart. 12.6.2 Air conditioning Air conditioning systems; Distribution systems; Flow and temperature control systems; Protection and warning devices.	1 2	2 3

EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

MODULE 11A. Turbine Aeroplane Aerodynamics, Structures & Systems			MODULE 11B. Piston Aeroplane Aerodynamics, Structures & Systems			MODULE 12. Helicopter Aerodynamics, Structures & Systems		
	Trg Level			Trg Level			Trg Level	
	A1	B1.1		A2	B1.2		A3 A4	B1.3 B1.4
11.7 Equipment and Furnishings (ATA 25)			11.7 Equipment and Furnishings (ATA 25)			12.7 instruments/Avionic Systems		
(a) Emergency equipment requirements; Seats, harnesses and belts;	2	2	(a) Emergency equipment requirements; Seats, harnesses and belts;	2	2	12.7.1 instrument Systems (ATA 31} Pitot static: alt indicator; Gyroscopic: artificial horizon, attitude director, direction indicator, horizontal situation indicator, turn and slip indicator, turn coordinator; Compasses: direct reading, remote reading; Vibration indicating systems - HUMS; Glass cockpit; Other aircraft system indication.	1	2
(b) Cabin lay-out; Equipment lay-out; Cabin Furnishing installation; Cabin entertainment equipment; Galley installation; Cargo handling and retention equipment; Airstairs.	1	1	(b) Cabin lay-out; Equipment lay-out; Cabin Furnishing installation Cabin entertainment equipment; Galley installation; Cargo handling and retention equipment; Airstairs.	1	1	12.7.2 Avionic Systems Fundamentals of system layouts and operation of: Auto Flight (ATA 22); Communications (ATA 23); Navigation Systems (ATA 34).	1	1
11.8 Fire Protection (ATA 26)			11.8 Fire Protection (ATA 26)			12.8 Electrical Power (ATA 24)		
(a) Fire and smoke detection and warning systems; Fire extinguishing systems; System tests;	1	3	(a) Fire and smoke detection and warning systems; Fire extinguishing systems; System tests;	1	3	Batteries Installation and Operation; DC power generation, AC power generation; Emergency power generation; Voltage regulation, Circuit protection. Power distribution; Inverters, transformers, rectifiers; External/Ground power.	1	3
(b) Portable fire extinguisher.	1	2	(b) Portable fire extinguisher.	1	2			

EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

MODULE 11A. Turbine Aeroplane Aerodynamics, Structures & Systems			MODULE 11B. Piston Aeroplane Aerodynamics, Structures & Systems			MODULE 12. Helicopter Aerodynamics, Structures & Systems		
	Trg Level			Trg Level			Trg Level	
	A1	B1.1		A2	B1.2		A3 A4	B1.3 B1.4
11.9 Flight Controls (ATA 27)			11.9 Flight Controls (ATA 27)			12.9 Equipment and Furnishings {ATA 25}		
Primary controls: aileron, elevator, rudder, spoiler; Trim control; Active load control; High lift devices; Lift dump, speed brakes; System operation: manual, hydraulic, pneumatic, electrical, fly-by-wire; Artificial feel, Yaw damper, Mach trim, rudder limiter, gust lock systems; Balancing and rigging; Stall protection/warning system.	1	3	Primary controls: aileron, elevator, rudder; Trim tabs; High lift devices; System operation: manual; Gust locks; Balancing and rigging; Stall warning system.	1	3	(a) Emergency equipment requirements; Seats, harnesses and belts; Lifting systems; (b) Emergency flotation systems; Cabin lay-out, cargo retention; Equipment lay-out; Cabin Furnishing Installation	2	2
11.10 Fuel Systems (ATA 28)			11.10 Fuel Systems (ATA 28)			12.10 Fire Protection (ATA 26}		
System lay-out; Fuel tanks, Supply systems; Dumping , venting and draining; Cross-feed and transfer; Indications and warnings; Refuelling and defueling; Longitudinal balance fuel systems.	1	3	System lay-out; Fuel tanks; Supply systems; Cross-feed and transfer; Indications and warnings; Refuelling and defueling.	1	3	Fire and smoke detection and warning systems; Fire extinguishing systems; System tests.	1	3
11.11 Hydraulic Power (ATA 29)			11.11 Hydraulic Power (ATA 29)			12.11 Fuel Systems (ATA 28)		
System layout; Hydraulic fluids; Hydraulic reservoirs and accumulators; Pressure generation: electric, mechanical, pneumatic; Emergency pressure generation; Filters; Pressure Control; Power distribution; Indication and warning systems Interface with other systems.	1	3	System lay-out; Hydraulic fluids; Hydraulic reservoirs and accumulators; Pressure generation: electric, mechanical; Filters; Pressure Control; Power distribution; Indication and warning systems.	1	3	System lay-out; Fuel tanks; Supply systems Dumping, venting and draining; Cross-feed and transfer; Indications and warnings; Refuelling and defueling.	1	3

EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

MODULE 11A. Turbine Aeroplane Aerodynamics, Structures & Systems			MODULE 11B. Piston Aeroplane Aerodynamics, Structures & Systems				MODULE 12. Helicopter Aerodynamics, Structures & Systems		
	Trg Level			Trg Level			Trg Level		
	A1	B1.1		A2	B1.2		A3 A4	B1.3 B1.4	
11.12 Ice and Rain Protection (ATA 30}			11.12 Ice and Rain Protection (ATA 30}			12.12 Hydraulic Power (ATA 29)			
Ice formation, classification and detection; Anti-icing systems: electrical, hot air and chemical; De-icing systems: electrical, hot air, pneumatic and chemical; Rain repellent; Probe and drain heating; Wiper systems.	1	3	Ice formation, classification and detection; De-icing systems: electrical, hot air, pneumatic and chemical; Probe and drain heating; Wiper systems.	1	3	System lay-out; Hydraulic fluids; Hydraulic reservoirs and accumulators; Pressure generation: electric, mechanical, pneumatic; Emergency pressure generation; Filters; Pressure Control; Power distribution; Indication and warning systems; Interface with other systems.	1	3	
11.13 Landing Gear (ATA 32)			11.13 Landing Gear (ATA 32)			12.13 Ice and Rain Protection (ATA 30)			
Construction, shock absorbing; Extension and retraction systems: normal and emergency; Indications and warning; Wheels, brakes, antiskid and autobraking; Tyres; Steering; Air-ground sensing.	2	3	Construction, shock absorbing; Extension and retraction systems: normal and emergency; indications and warning; Wheels, brakes, antiskid and autobraking; Tyres; Steering; Air-ground sensing.	2	3	Ice formation, classification and detection; Anti-icing and De-icing systems: electrical, hot air and chemical; Rain repellent and removal; Probe and drain heating; Wiper system.	1	3	
11.14 'Lights (ATA 33)			11.14 'Lights (ATA 33)			12.14 Landing Gear (ATA 32)			
External: navigation, anti-collision, landing, taxiing, ice; Internal: cabin, cockpit, cargo; Emergency.	2	3	External: navigation, anti-collision, landing, taxiing, ice; Internal: cabin, cockpit, cargo; Emergency.	2	3	Construction, shock absorbing; Extension and retraction systems: normal and emergency; Indications and warning; Wheels, Tyres, brakes; Steering; Air-ground sensing; Skids, floats.	2	3	
11.15 Oxygen (ATA 35}			11.15 Oxygen (ATA 35}			12.15 Lights (ATA 33}			

EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

MODULE 11A. Turbine Aeroplane Aerodynamics, Structures & Systems			MODULE 11B. Piston Aeroplane Aerodynamics, Structures & Systems			MODULE 12. Helicopter Aerodynamics, Structures & Systems		
	Trg Level			Trg Level			Trg Level	
	A1	B1.1		A2	B1.2		A3 A4	B1.3 B1.4
System lay-out: cockpit, cabin; Sources, storage, charging and distribution; Supply regulation; Indications and warnings.	1	3	System lay-out: cockpit, cabin; Sources, storage, charging and distribution; Supply regulation; Indications and warnings.	1	3	External: navigation, landing, taxiing, ice; Internal: cabin, cockpit, cargo; Emergency.	2	3
11.16 Pneumatic/Vacuum (ATA 36)			11.16 Pneumatic/Vacuum (ATA 36)			12.16Pneumatic/Vacuum (ATA 36)		
System lay-out; Sources: engine/APU (Auxiliary Power Unit), compressors, reservoirs, ground supply; Pressure and vacuum pumps; Pressure control; Distribution; Indications and warnings; Interfaces with other systems.	1	3	System lay-out; Sources: engine/APU, compressors, reservoirs, ground supply; Pressure and vacuum pumps; Pressure control; Distribution; Indications and warnings; Interfaces with other systems.	1	3	System lay-out; Sources: engine /APU, compressors, reservoirs, ground supply; Pressure and vacuum pumps; Pressure control Distribution; Indications and warnings; Interfaces with other systems.	1	3
11.17 Water/Waste (ATA 38)			11.17 Water/Waste (ATA 38)					
Water system lay-out, supply, distribution, servicing and draining; Toilet system lay-out, flushing and servicing; Corrosion aspects.	2	3	Water system lay-out, supply, distribution, servicing and draining; Toilet system lay-out, flushing and servicing; Corrosion aspects.	2	3			
11.18On Board Maintenance Systems {ATA 45}						12.18 On Board Maintenance Systems {ATA45}		
Central maintenance computers; Data loading system; Electronic library system; Printing; Structure monitoring (damage tolerance monitoring).	1	2				Central maintenance computers; Data loading sy stem; Electronic library system; Printing; Structure monitoring (damage tolerance monitoring).	1	2
11.19 Integrated Modular Avionics (ATA42}						12.17 integrated Modular Avionics (ATA42)		
Functions that may be typically integrated in the Integrated Modular Avionic (IMA) modules are, among others:	1	2				Functions that ma y be typically integrated in the Integrated Modular	1	2

EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

MODULE 11A. Turbine Aeroplane Aerodynamics, Structures & Systems			MODULE 11B. Piston Aeroplane Aerodynamics, Structures & Systems				MODULE 12. Helicopter Aerodynamics, Structures & Systems		
	Trg Level			Trg Level			Trg Level		
	A1	B1.1		A2	B1.2		A3 A4	B1.3 B1.4	
Bleed Management, Air Pressure Control, Air Ventilation and Control, Avionics and Cockpit Ventilation Control, Temperature Control, Air Traffic Communication, Avionics Communication Router, Electrical Load Management, Circuit Breaker Monitoring, Electrical System BITE, Fuel Management, Braking Control, Steering Control, Landing Gear Extension and Retraction, Tyre Pressure Indication, Oleo Pressure Indication, Brake Temperature Monitoring, etc. Core System; Network Components.						Avionic {IMA) modules are, among others: Bleed Management, Air Pressure Control, Air Ventilation Control, Temperature Control, Air Traffic Communication, Avionics Communication Router, Electrical Load Management, Circuit Breaker Monitoring, Electrical System BITE, Fuel Management, Braking Control, Steering Control, Landing Gear Extension and Retraction, Tyre Pressure Indication, Oleo Pressure Indication, Brake Temperature Monitoring, etc. Core System; Network Components.			
11.20 Cabin Systems (ATA44}									
The units and components which furnish a means of entertaining the passengers and providing communication within the aircraft (Cabin Intercommunication Data System (CIDS)) and between the aircraft cabin and ground stations (Cabin Network Service (CNS)). They include voice, data, music and video transmissions. CIDS provides an interface between cockpit/cabin crew and cabin systems. These systems support data exchange between the different related Line Replaceable Units (LRUs) and they are typically operated via Flight Attendant Panels (FAPs).	1	2							
CNS typically consists of a server, interfacing with, among others, the following --systems: - Data/Radio Communication; - Cabin Core System (CCS); - In-flight Entertainment System (IFES); - External Communication System (ECS); - Cabin Mass Memory System (CMMS);	1	2							

EASA Part 66 Specialised AME Pathways – Modules 11A Turbine Aeroplanes, Module 11B Piston Aeroplanes and Module 12 Helicopters

MODULE 11A. Turbine Aeroplane Aerodynamics, Structures & Systems			MODULE 11B. Piston Aeroplane Aerodynamics, Structures & Systems				MODULE 12. Helicopter Aerodynamics, Structures & Systems		
	Trg Level			Trg Level			Trg Level		
	A1	B1.1		A2	B1.2		A3	B1.3	
							A4	B1.4	
- Cabin Monitoring System (CMS); - Miscellaneous Cabin Systems (MCSs). CNS may host functions such as: - - - access to pre-departure/departure reports; - e-mail/intranet/internet access; passenger database. Cabin Core System; In-flight Entertainment System; External Communication System; Cabin Mass Memory System; Cabin Monitoring System; Miscellaneous Cabin System.									
11.21 Information Systems (ATA46}						12.19 Information Systems (ATA46)			
The units and components which furnish a means of storing, updating and retrieving digital information traditionally provided on paper, microfilm or microfiche. Includes units that are dedicated to the information storage and retrieval function such as the electronic library mass storage and controller. Does not include units or components installed for other uses and shared with other systems, such as flight deck printer or general use display. Typical examples include Air Traffic and Information Management Systems and Network Server Systems; Aircraft General Information System; Flight Deck Information System; Maintenance Information System; Passenger Cabin Information System; Miscellaneous Information System.			1	2					
						The units and components which furnish a means of storing, updating and retrieving digital information traditionally provided on paper, microfilm or microfiche. Includes units that are dedicated to the information storage and retrieval function such as the electronic library mass storage and controller. Does not include units or components installed for other uses and shared with other systems, such as flight deck printer or general use display. Typical examples include Air Traffic and Information Management Systems and Network Server Systems. Aircraft General Information System; Flight Deck Information System; Maintenance Information System; Passenger Cabin Information System; Miscellaneous Information System.			
						1	2		