

AVIATION AUSTRALIA Certificate IV Aeroskills (Mechanical) MEA40715

The largest CASR and EASA Part 147 approved Maintenance Training Organisation in Australia.



	Name	Aviation Australia Pty Ltd	RTO number CASR Part 147	30770 CASA.147MTO.0025
Course Details	Code	MEA40715		
	Title	Certificate IV Aeroskills (Mechanical)		
Purpose of Course	<p>This course provides students with the underpinning knowledge and skills requirements to progress to an Aircraft technician, enabling them to:</p> <ul style="list-style-type: none"> perform scheduled inspections; fault diagnosis of airframes and airframe mechanical, hydraulic and pneumatic systems and components; and aircraft engines and (where applicable) propellers. <p>The qualification defines the exit from an apprenticeship (for domestic students) and may apply to either aircraft maintenance performed on flight lines/ramps and in hangars, or to airframe and engine component repair and overhaul performed in workshops.</p> <p>This qualification articulates with the MEA50215 Diploma of Aeroskills (Mechanical) which is one of the elements that qualifies individuals for the grant by CASA of a B1.1 or B1.3 Aircraft Maintenance Engineer Licence.</p> <p>The qualification also provides credits towards the MEA50415 Diploma of Aviation Maintenance Management (Mechanical) and the MEA60215 Advanced Diploma of Aviation Maintenance Management (Mechanical).</p>			
Target Group	<p>This qualification may apply to employees of civil aviation maintenance organisations or to individuals that wish to gain employment in the aviation industry who perform scheduled inspections, fault diagnosis and repair, and modification of airframes and airframe mechanical, hydraulic and pneumatic systems and components, and of aircraft engines and (where applicable) propellers or maintenance, repair and modification of aircraft mechanical components in a component workshop environment.</p> <p>The qualification defines the exit from an apprenticeship and may apply to either aircraft maintenance performed on flight lines/ramps and in hangars, or to airframe and engine component repair and overhaul performed in workshops.</p>			
Regulatory requirements/ Packaging Rules	<p>To be awarded the MEA40715 Certificate IV in Aeroskills (Mechanical), competency must be demonstrated in:</p> <p>Aircraft Maintenance Stream</p> <ul style="list-style-type: none"> Core common and imported units: eight (8) units Elective technical stream units from Group A: thirteen (13) units Total: twenty-one (21) units. <p>Or,</p> <p>Component Maintenance Workshop Stream</p> <ul style="list-style-type: none"> Core common and imported units: eight (8) units Elective technical stream units from Groups B and C: six (6) units Total: fourteen (14) units. 			



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Nationally Endorsed Training package (If applicable)	Code	MEA15	Version	1.3
	Title	Aeroskills Training Package	Qualification	MEA40715 - Cert IV in Aeroskills (Mechanical)
Core units of competency (common to both streams)				
Reference Competency Unit(s) (If Applicable)	National Code	Title	Core / Elective	
	MEA101	Interpret occupational health and safety practices in aviation maintenance	Core	
	MEA103	Plan and organise aviation maintenance work activities	Core	
	MEA105	Apply quality standards applicable to aviation maintenance processes	Core	
	MEA107	Interpret and use aviation maintenance industry manuals and specifications	Core	
	MEA108	Complete aviation maintenance industry documentation	Core	
	MEA109	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance	Core	
	MSAENV272B	Participate in environmentally sustainable work practices	Core	
	MEA118	Conduct self in the aviation environment	Core	



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Elective units of competency Group A (Aircraft Maintenance Stream)

Reference Competency Unit(s) (If Applicable)	National Code	Title	Core / Elective
	MEA201	Remove and install miscellaneous aircraft electrical hardware/components	Elective
	MEA246	Fabricate and/or repair aircraft electrical hardware or parts	Elective
	MEA260	Use electrical test equipment	Elective
	MEA301	Perform aircraft flight servicing	Elective
	MEA302	Remove and install aircraft hydro-mechanical and landing gear system components	Elective
	MEA303	Remove and install aircraft pneumatic system components	Elective
	MEA304	Remove and install non-pressurised aircraft structural and non-structural components	Elective
	MEA305	Remove and install aircraft fixed wing flight control system components	Elective
	MEA306	Remove and install engines and engine system components	Elective
	MEA307	Remove and install propeller systems and components	Elective
	MEA308	Remove and install rotary wing rotor and flight control system components	Elective
	MEA309	Inspect, test and troubleshoot aircraft hydro-mechanical and landing gear systems and components	Elective
	MEA310	Inspect, test and troubleshoot aircraft pneumatic systems and components	Elective
	MEA312	Inspect, test and troubleshoot aircraft fixed wing flight control systems and components	Elective
	MEA313	Inspect, test and troubleshoot piston engine systems and components	Elective
	MEA314	Inspect, test and troubleshoot gas turbine engine systems and components	Elective
	MEA315	Inspect, test and troubleshoot propeller systems and components	Elective

MEA316	Inspect, test and troubleshoot rotary wing rotor and control systems and components	Elective
MEA317	Remove and install pressurised aircraft structural and non-structural components	Elective
MEA318	Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear systems and components	Elective
MEA319	Inspect gas turbine engine systems and components	Elective
MEA320	Test and troubleshoot aircraft hydro-mechanical, mechanical, gaseous and landing gear systems and components	Elective
MEA321	Test and troubleshoot aircraft fixed wing flight control systems and components	Elective
MEA322	Test and troubleshoot gas turbine engine systems and components	Elective
MEA327	Fabricate and/or repair aircraft mechanical components or parts	Elective
MEA328	Maintain and/or repair aircraft mechanical components or parts	Elective
MEA339	Inspect, repair and maintain aircraft structures	Elective
MEA362	Maintain aircraft vapour cycle air conditioning systems	Elective
MEA366	Perform borescope inspections	Elective
MEA401	Inspect aircraft structures	Elective
MEA410	Maintain aircraft structure/components	Elective



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Groups B and C (Component Workshop Stream)
Choose at least three from Group B and make up to a total of six from Group C

Group B

Reference Competency Unit(s) (If Applicable)	National Code	Title	Core / Elective
	MEA380	Repair and/or overhaul aircraft hydraulic system components	Elective
	MEA381	Repair and/or overhaul aircraft pneumatic system components	Elective
	MEA382	Repair and/or overhaul aircraft fuel system components	Elective
	MEA383	Repair and/or overhaul gas turbine engine air inlet and compressor components and/or modules	Elective
	MEA384	Repair and/or overhaul gas turbine engine combustion section components and/or modules	Elective
	MEA385	Repair and/or overhaul gas turbine engine turbine and exhaust section components	Elective
	MEA386	Repair and/or overhaul gas turbine engine ancillary section components	Elective
	MEA387	Test gas turbine engines and engine modules after overhaul or repair	Elective
	MEA389	Repair and/or overhaul propellers	Elective
	MEA390	Repair and/or overhaul rotary wing dynamic components	Elective
	MEA391	Repair and/or overhaul aircraft mechanical system components	Elective
	MEA392	Disassemble aircraft piston engines	Elective
	MEA393	Repair and/or overhaul aircraft piston engine cylinder assembly components	Elective
	MEA394	Repair and/or overhaul aircraft piston engine crankcase assembly components	Elective
	MEA395	Reassemble aircraft piston engines	Elective
	MEA396	Assemble aircraft piston engine quick engine change unit	Elective
	MEA397	Test aircraft piston engines after repair or overhaul	Elective

Group C

Reference Competency Unit(s) (If Applicable)	National Code	Title	Core / Elective
	MEA201	Remove and install miscellaneous aircraft electrical hardware/components	Elective
	MEA246	Fabricate and/or repair aircraft electrical hardware or parts	Elective
	MEA260	Use electrical test equipment	Elective
	MEA368	Shot peen aircraft components	Elective
	MEM24002B	Perform penetrant testing	Elective
	MEM24004B	Perform magnetic particle testing	Elective
	MEM24012C	Apply metallurgy principles	Elective



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Assessment Method and Delivery Mode	<p>Training Material can be accessed via Aviation Australia’s Learning Management System (LMS). Practice questions are also available to self-check their course progress.</p> <p>Remedial training programs are available on campus to support students. Programs are conducted to meet the individuals learning needs.</p> <p>CASR Part 66 The course delivery is in line with the CASR Part 66 basic knowledge syllabus. Delivered in a modular format with CASR Part 66 Multi-Choice-Question examinations as summative assessments.</p> <p>For units of competency that don’t align with Part 66 modules (e.g. MSAENV272B Participate in environmentally sustainable work practices), candidates will be assessed through online training courses with work-based assignments or, candidates have the opportunity to provide evidence of competence through the RPL process.</p>
Course Length	<p>Varies. Candidates post RPL can choose to self-study the training material, or attend scheduled instructor led classes, or a combination of both.</p>
Course Costing	<ul style="list-style-type: none"> • \$1,500 enrolment/RPL/Journal of Experience/certification fee • The remaining costs for training material and CASR Part 66 examinations can only be determined by RPL and are therefore in addition to the above fee.
Outcome	<ul style="list-style-type: none"> • AQF MEA40715 Certificate IV in Aeroskills (Mechanical) qualification. • CASR Part 147 Certificate of Recognition for CASR Part 66 basic knowledge examinations passed at over 75%



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Annex A
CASR Part 66 basic knowledge syllabus:

Subject Modules	Title
6	Material and Hardware
7	Maintenance Practices
8	Basic Aerodynamics
11	Aeroplane Aerodynamics, Structures and Systems
15	Gas Turbine Engine
17	Propeller



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