

AVIATION AUSTRALIA

Diploma of Aeroskills (Avionics)

MEA50115 – CASR Part 66 B2 licence

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

COURSE OUTLINE



EXCELLENCE IN AVIATION TRAINING

RTO Aviation Australia	Name	Aviation Australia Pty Ltd	RTO number CASR Part 147	30770 CASA.147MTO.0025
Course Details	Code	MEA50115		
	Title	Diploma of Aeroskills (Avionics)		
Purpose of Course	<p>The qualification satisfies CASA requirements for the grant, under CASR Part 66, of Aircraft Maintenance Engineer Licence B2 when the skills and knowledge requirements align with CASA syllabus requirements as detailed in the CASR Part 66 Manual of Standards, and training has been delivered in accordance with the requirements of CASR Part 147.</p> <p>Candidates must undergo a Recognition of Prior Learning (RPL) assessment during the initial enrolment phase to ensure that appropriate units of competency are selected for the category of licence being sought (e.g. fixed wing or rotary wing).</p> <p>The course consists of:</p> <ul style="list-style-type: none"> • common and technical stream units required at Certificate IV level in the aircraft maintenance stream; • additional diploma level common and imported units that cover supervisor level OHS competency plus competencies required by CASA for the exercise of licence privileges; and • Diploma level avionic technical stream units covering advanced fault diagnosis and aircraft weight and balance calculation. 			
Target Group	<p>This qualification applies to:</p> <ul style="list-style-type: none"> • individuals seeking the grant of a CASA B2 Aircraft Maintenance Engineer Licence covering the supervision, performance and certification of avionic maintenance on aircraft that are type-rated by CASA for maintenance purposes; or • candidates holding a Certificate IV Aeroskills qualification and wishing to upskill; or • candidates holding a CASA B2 licence with exclusions listed on licence and wishing to upskill. 			
Regulatory requirements/ Packaging Rules	<p>To be awarded the MEA50115 Diploma of Aeroskills (Avionics), competency must be demonstrated in thirty one (31) or thirty two (32) units of competency, depending on the choice of elective specialist units. These units consist of:</p> <ul style="list-style-type: none"> • eight (8) Core Diploma level (CASA licensing) units; • twenty three (23) Core common and technical stream units from Certificate IV that are mandatory for a CASA B2 licence; and • either Elective Group A (two units) or Group B (one unit). 			



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Nationally Endorsed Training package (If applicable)	Code	MEA	Version	1.3
	Title	Aeroskills Training Package	Qualification	MEA50115 – Diploma of Aeroskills (Avionics)
Reference Competency Unit(s) (If Applicable)	B2 Diploma of Aeroskills Avionics Fixed Wing			
	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
	MEA111	Perform administrative processes to prepare for certification of civil aircraft maintenance		Core
	MEA112	Plan and implement civil aircraft maintenance activities		Core
	MEA113	Supervise civil aircraft maintenance activities and manage human resources in the workplace		Core
	MEA116	Apply occupational health and safety procedures at supervisor level		Core
	MEA118	Conduct self in the aviation environment		Core
	MEA142	Manage self in the aviation maintenance environment		Core
	MEA148	Apply mathematics and physics in aviation maintenance		Core
	MSAENV472B	Implement and monitor environmentally sustainable work practices		Core
	MEA201	Remove and install miscellaneous aircraft electrical hardware/components		Core



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MEA203	Remove and install advanced aircraft electrical system components	Core
MEA205	Remove and install advanced aircraft instrument system components	Core
MEA206	Remove and install aircraft basic radio communication and navigation system components	Core
MEA207	Remove and install aircraft electronic system components	Core
MEA223	Inspect aircraft electrical systems and components	Core
MEA224	Inspect aircraft instrument systems and components	Core
MEA225	Inspect fixed wing aircraft automatic flight control systems and components	Elective
MEA226	Inspect aircraft electronic systems and components	Core
MEA227	Test and troubleshoot aircraft electrical systems and components	Core
MEA228	Test and troubleshoot aircraft instrument systems and components	Core
MEA229	Test and troubleshoot aircraft radio frequency navigation and communications systems and components	Core
MEA230	Test and troubleshoot fixed wing aircraft automatic flight control systems and components	Elective
MEA232	Test and troubleshoot aircraft pulse systems and components	Core
MEA235	Perform advanced troubleshooting in aircraft avionic maintenance	Core
MEA241	Perform aircraft weight and balance calculations as a result of modifications	Core
MEA246	Fabricate and/or repair aircraft electrical hardware or parts	Core
MEA260	Use electrical test equipment	Core
MEA301	Perform aircraft flight servicing	Core



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	B2 Diploma of Aeroskills Avionics Rotary Wing		
	National Code	Title	Core / Elective
Reference Competency Unit(s) (If Applicable)	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
	MEA111	Perform administrative processes to prepare for certification of civil aircraft maintenance	Core
	MEA112	Plan and implement civil aircraft maintenance activities	Core
	MEA113	Supervise civil aircraft maintenance activities and manage human resources in the workplace	Core
	MEA116	Apply occupational health and safety procedures at supervisor level	Core
	MEA118	Conduct self in the aviation environment	Core
	MEA142	Manage self in the aviation maintenance environment	Core
	MEA148	Apply mathematics and physics on aviation maintenance	Core
	MSAENV472B	Implement and monitor environmentally sustainable work practices	Core
	MEA201	Remove and install miscellaneous aircraft electrical hardware/components	Core
	MEA203	Remove and install advanced aircraft electrical system components	Core
	MEA205	Remove and install advanced aircraft instrument system components	Core



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Reference Competency Unit(s) (If Applicable)	MEA206	Remove and install aircraft basic radio communication and navigation system components	Core
	MEA207	Remove and install aircraft electronic system components	Core
	MEA223	Inspect aircraft electrical systems and components	Core
	MEA224	Inspect aircraft instrument systems and components	Core
	MEA226	Inspect aircraft electronic systems and components	Core
	MEA227	Test and troubleshoot aircraft electrical systems and components	Core
	MEA228	Test and troubleshoot aircraft instrument systems and components	Core
	MEA229	Test and troubleshoot aircraft radio frequency navigation and communications systems and components	Core
	MEA231	Inspect, test and troubleshoot rotary wing aircraft automatic flight control systems and components	Elective
	MEA232	Test and troubleshoot aircraft pulse systems and components	Core
	MEA235	Perform advanced troubleshooting in aircraft avionic maintenance	Core
	MEA241	Perform aircraft weight and balance calculations as a result of modifications	Core
	MEA246	Fabricate and/or repair aircraft electrical hardware or parts	Core
	MEA260	Use electrical test equipment	Core
	MEA301	Perform aircraft flight servicing	Core



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	<p>There is no direct enrolment into the Diploma of Aeroskills program without holding one of the following pre-requisites:</p> <ul style="list-style-type: none"> • individuals seeking the grant of a CASA B2 Aircraft Maintenance Engineer Licence covering the supervision, performance and certification of avionic maintenance on aircraft that are type-rated by CASA for maintenance purposes; or • Candidates holding a Certificate IV Aeroskills qualification and wishing to upskill; or • Candidates holding a CASA B2 licence with exclusions listed on licence and wishing to upskill. <p>Apprenticeship Pathway The traditional apprenticeship model includes a one year on-campus program combining a face-to-face trainer led theory class, computer self-paced learning and practical sessions involving small group and individual activities.</p> <p>Subsequent to the completion of the on-campus program, depending on the success of the student gaining employment, the student will enter an apprenticeship and complete his/her work-based component (generally 3 more years in duration). On successful completion of the work-based component, the student will be awarded with a Certificate IV qualification. Once the Certificate IV is completed, the student will be eligible to enrol into the diploma program via an RPL as required by CASA to complete the outstanding subjects to obtain the diploma. Candidates must undergo a RPL assessment during the initial enrolment phase to ensure that appropriate units of competency are selected for the category of licence being sought (e.g. fixed wing or rotary wing).</p>
<p>Assessment Method and Delivery Mode</p>	<p>Course presentations for each module of training are made available to all students participating in the course of training and students access this material via access to 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. MSAENV472B Implement and monitor environmentally sustainable work practices and MEA142 Manage self in the aviation maintenance environment), 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>
<p>Course Length</p>	<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>
<p>Course Costing</p>	<ul style="list-style-type: none"> • \$2,000 enrolment/RPL/Journal of Experience/certification fee • \$1,000 ex-student fee available, please note conditions apply, contact us for clarification • 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.
<p>Pre-course requirements / pre-requisite</p>	<p>Candidates must undergo a RPL assessment during the initial enrolment phase to ensure that appropriate units of competency are selected for the category of licence being sought (e.g. fixed wing or rotary wing).</p>
<p>Outcome</p>	<ul style="list-style-type: none"> • MEA50115 Diploma of Aeroskills (Avionics) • CASR Part 147 Certificate of Recognition for CASR Part 66 basic knowledge examinations passed at over 75% • CASA Form 465 submission once the full training requirement has been met IAW CASR Part 66 Manual of Standards.



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Annex A

CASR Part 66 basic knowledge syllabus:

Subject Modules	Title
1	Mathematics
2	Physics
3	Electrical Fundamentals
4	Electronic Fundamentals
5	Digital Techniques electronic instrument systems
6	Materials and hardware
7	Maintenance Practices
8	Basic Aerodynamics
9	Human Factors
10	Aviation Legislation
13	Aircraft structures and systems
14	Propulsion – avionic systems



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