

# AVIATION AUSTRALIA Certificate IV Aeroskills (Avionics) MEA40615

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

COURSE OUTLINE



EXCELLENCE IN AVIATION TRAINING

<b>RTO Aviation Australia</b>	<b>Name</b>	Aviation Australia Pty Ltd	<b>RTO number CASR Part 147</b>	30770 CASA.147MTO.0025
<b>Course Details</b>	<b>Code</b>	MEA40615		
	<b>Title</b>	Certificate IV Aeroskills (Avionics)		
<b>Purpose of Course</b>	<p>This course provides students with the underpinning knowledge and skills requirements to progress to an Avionics technician, enabling them to:</p> <ul style="list-style-type: none"> <li>• perform scheduled inspections; and</li> <li>• fault diagnosis and repair, and modification of aircraft electrical, instrument and radio systems and system components.</li> </ul> <p>This qualification articulates with the MEA50115 Diploma of Aeroskills (Avionics) which is one of the elements that qualifies individuals for the grant by CASA of a B2 Aircraft Maintenance Engineer Licence.</p> <p>The qualification also provides credits towards the MEA50315 Diploma of Aviation Maintenance Management (Avionics) and the MEA60115 Advanced Diploma of Aviation Maintenance Management (Avionics).</p>			
<b>Target Group</b>	<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 aircraft electrical, instrument and radio systems and system components.</p> <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 avionic component repair and overhaul performed in workshops.</p>			
<b>Regulatory requirements/ Packaging Rules</b>	<p>To be awarded the MEA40615 Certificate IV in Aeroskills (Avionics) competency must be demonstrated in:</p> <ul style="list-style-type: none"> <li>• Twelve (12) Core units consisting of common, imported and some avionic technical stream units; and</li> <li>• Thirteen (13) Elective technical stream units.</li> </ul> <p>Total: twenty four (25) units.</p>			



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<b>Nationally Endorsed Training package (If applicable)</b>	<b>Code</b>	MEA15	<b>Version</b>	1.3
	<b>Title</b>	Aeroskills Training Package	<b>Qualification</b>	MEA40615 - Cert IV in Aeroskills (Avionics)
<b>Reference Competency Unit(s) (If Applicable)</b>	<b>National Code</b>	<b>Title</b>	<b>Core / Elective</b>	
	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	
	MEA148	Apply mathematics and physics in aviation maintenance	Core	
	MEA201	Remove and install miscellaneous aircraft electrical hardware/components	Elective	
	MEA203	Remove and install advanced aircraft electrical system components	Elective	
	MEA205	Remove and install advanced aircraft instrument system components	Elective	
	MEA206	Remove and install aircraft basic radio communication and navigation system components	Elective	
	MEA207	Remove and install aircraft electronic system components	Elective	
	MEA223	Inspect aircraft electrical systems and components	Elective	
	MEA224	Inspect aircraft instrument systems and components	Elective	
	MEA225	Inspect fixed wing aircraft automatic flight control systems and components	Elective	



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Reference Competency Unit(s) (If Applicable)	National Code	Title	Core / Elective
	MEA226	Inspect aircraft electronic systems and components	Elective
	MEA227	Test and troubleshoot aircraft electrical systems and components	Elective
	MEA228	Test and troubleshoot aircraft instrument systems and components	Elective
	MEA229	Test and troubleshoot aircraft radio frequency navigation and communications systems and components	Elective
	MEA230	Test and troubleshoot fixed wing aircraft automatic flight control systems and components	Elective
	MEA232	Test and troubleshoot aircraft pulse systems and components	Elective
	MEA246	Fabricate and/or repair aircraft electrical hardware or parts	Elective
	MEA260	Use electrical test equipment	Elective



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<b>Assessment Method and Delivery Mode</b>	<p><b>Apprenticeship Pathway</b></p> <p>The traditional apprenticeship model includes a one year on-campus program (approximately) combining instructor-led theory classes, computer self-paced learning and practical sessions involving small group and individual activities. 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 or more years in duration). On completion of the work-based component, the student will be awarded with a Certificate IV qualification.</p> <p><b>CASR Part 66</b></p> <p>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. As per the CASR Part 66 Manual of Standards, if a candidate passes the examinations at over 75% then they receive a 10 year credit for that particular module/sub-module towards the applicable category/sub-category of licence.</p>
<b>Course Length</b>	<p>Approximately 12 months on-campus plus 3-4 years in the workplace under an apprenticeship arrangement. Course length will vary depending on Public Holidays and Aviation Australia's Term Breaks.</p>
<b>QLD State Government Funding</b>	<p><b>Eligibility</b></p> <ul style="list-style-type: none"> <li>• Australian citizens or permanent residents of Australia living in Queensland</li> <li>• Permanent residents of Australia living in Queensland that are New Zealand citizens</li> <li>• Refugee and humanitarian visa holders living in Queensland</li> </ul> <p><b>Evidence required</b></p> <ul style="list-style-type: none"> <li>• A valid Australian Passport, <i>or</i> an Australian Birth Certificate, <i>or</i> an International Passport <i>with</i> accompanying Visa Grant Notification/VEVO documentation; and</li> <li>• Queensland Drivers Licence <i>and/or</i> a valid QLD Adult Proof of Age Card (18+ card).</li> </ul>
<b>Course Costing</b>	<ul style="list-style-type: none"> <li>• \$5,000 (Post QLD State Government Funding)</li> </ul>
<b>Prerequisites</b>	<ul style="list-style-type: none"> <li>• Queensland permanent residency.</li> <li>• Year 10 (or equivalent) completion of high school, preferably year 12, with evidence of studies in English, Mathematics and Physics.</li> <li>• Successful completion of Aviation Australia's Language, Literacy and Numeracy aptitude testing.</li> </ul>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>• Statement of Results towards MEA40615 Certificate IV in Aeroskills (Avionics) upon successful completion of the prevocational Aeroskills program</li> <li>• If students are successful in gaining and completing an apprenticeship, a Certificate IV in Aeroskills qualification will be awarded.</li> <li>• CASR Part 147 Certificate of Recognition for CASR Part 66 basic knowledge examinations passed at over 75%</li> </ul>



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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
13	Aircraft structures and systems
14	Propulsion – avionic systems



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