

<b>RTO</b>	Aviation Australia Pty Ltd	<b>RTO Number</b>	30770
<b>Course Details</b>	<b>Code</b>	MEA40718/41318	
	<b>Title</b>	Certificate IV Aeroskills (Structures/Mechanical)	
	<b>Length</b>	Approximately 11 months on-campus plus 3 to 4 years in the workplace under an apprenticeship arrangement. Course length will vary depending on Public Holidays and Aviation Australia's Term Breaks.	
<b>Cost</b>	\$4,750 (Post QLD State Government Funding)		
<b>Purpose</b>	<p>This course provides students with the underpinning knowledge and skills required to progress to an Aircraft technician, enabling them to:</p> <ul style="list-style-type: none"> <li>perform scheduled inspections</li> <li>fault diagnosis and repair</li> <li>carry out modifications of airframes and airframe mechanical, hydraulic, and pneumatic systems and components; and of aircraft engines and (where applicable) propellers.</li> <li>complete repairs and modification of aircraft structures.</li> </ul> <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 MEA50218 Diploma of Aeroskills (Mechanical) which 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 MEA50418 Diploma of Aviation Maintenance Management (Mechanical) and the MEA60218 Advanced Diploma of Aviation Maintenance Management (Mechanical).</p>		
<b>Entry Requirements</b>	<ul style="list-style-type: none"> <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>Study Modes</b>	<p><b>Apprenticeship Pathway</b></p> <p>The traditional apprenticeship model includes a 11 month on-campus program (approximately) combining instructor-led theory classes, computer self-paced learning and practical sessions involving small group and individual activities.</p> <p>After completion of the underpinning 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 successful 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. Please see Annex A.</p> <p>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 module/sub-module towards the applicable category/sub-category of licence.</p>		
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>Statement of Results towards MEA40718 Certificate IV in Aeroskills (Mechanical) 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>		

<b>Core Units of Competency (common to both streams)</b>		
<b>Code</b>	<b>Title</b>	<b>Core / Elective</b>
MEA107	Interpret and use aviation maintenance industry manuals and specifications	Core
MEA118	Conduct self in the aviation maintenance environment	Core
MEA154	Apply work health and safety practices in aviation maintenance	Core
MEA155	Plan and organise aviation maintenance work activities	Core
MEA156	Apply quality standards applicable to aviation maintenance processes	Core
MEA157	Complete aviation maintenance industry documentation	Core
MEA158	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance	Core
MSMENV272	Participate in environmentally sustainable work practices	Core
<b>Elective Units of Competency Group A (Aircraft Maintenance Stream)</b>		
<b>Code</b>	<b>Title</b>	<b>Core / Elective</b>
MEA301	Perform aircraft flight servicing	Elective
MEA303	Remove and install aircraft pneumatic system components	Elective
MEA305	Remove and install aircraft fixed wing flight control system components	Elective
MEA306	Remove and install engines and engine system 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
MEA398	Remove and install aircraft hydro-mechanical and landing gear system components	Elective
MEA307 (Enterprise specific)	Remove and install propeller systems and components	Elective
MEA315 (Enterprise specific)	Inspect, test and troubleshoot propeller systems and components	Elective

MEA401	Inspect aircraft structures	Elective
MEA410	Maintain aircraft structure / components	Elective
MEA420	Fabricate basic structural components for aircraft	Core
MEA421	Fabricate advanced structural components for aircraft	Core
MEA422	Repair / modify aircraft metal structure	Core
MEA423	Aircraft structure major disassembly and reassembly	Core

**Annex A**  
**CASR Part 66 basic knowledge syllabus**

Subject Module	Title
1	Mathematics
2	Physics
3	Electrical Fundamentals
4	Electronic Fundamentals
6	Aircraft Materials and Hardware
7	Maintenance Practices
8	Aerodynamics
11	Aeroplane Aerodynamics, Structures and Systems
12	Helicopter Aerodynamics, Structures and Systems
15	Gas Turbine Engine
16	Piston Engine
17	Propeller Systems