AVIATION AUSTRALIA

Certificate IV Aeroskills (Mechanical) Fixed-Wing, Gas-Turbine MEA40715

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

COURSE OUTLINE

Aviation AUSTRALIA

EXCELLENCE IN AVIATION TRAINING

	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	This course provides students with the underpinning knowledge and skills requirements to progress to an Aircraft technician, enabling them to: • perform scheduled inspections; • fault diagnosis of airframes and airframe mechanical, hydraulic and pneumatic systems and components; and • aircraft engines and (where applicable) propellers. 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. 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. The qualification also provides credits towards the MEA50415 Diploma of Aviation Maintenance Management (Mechanical) and the MEA60215 Advanced Diploma of Aviation Maintenance Management (Mechanical).			
Target Group	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. 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.			
Regulatory requirements/ Packaging Rules	To be awarded the MEA40715 Certificate IV in Aeroskills (Mechanical) (Fixed-Wing Gas-Turbine), competency must be demonstrated in: Aircraft Maintenance Stream • Core common and imported units: eight (8) units; and • Elective technical stream units from Group A: thirteen (13) units. Total: twenty one (21) units.			

Nationally Endorsed Training package (If applicable)	**Code**	MEA	**Version**	1.3
	Title	Aeroskills Training Package	**Qualification**	MEA40715 - Cert IV in Aeroskills (Mechanical)

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
	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
	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
	MEA401	Inspect aircraft structures	Elective
	MEA410	Maintain aircraft structure / components	Elective
	MEA307	Remove and install propeller systems and components	Elective
	MEA315	Inspect, test and troubleshoot propeller systems and components	Elective

Assessment Method and Delivery Mode	**Apprenticeship Pathway** The traditional apprenticeship model includes a 7 month 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 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. **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. Please see Annex A. 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.
Course Length	Approximately 7 months on-campus plus 3 years in the workplace under an apprenticeship arrangement. Course length will vary depending on Public Holidays and Aviation Australia's Term Breaks.
QLD State Government Funding	**Eligibility** • Australian citizens or permanent residents of Australia living in Queensland • Permanent residents of Australia living in Queensland that are New Zealand citizens • Refugee and humanitarian visa holders living in Queensland **Evidence required** • A valid Australian Passport, *or* an Australian Birth Certificate, *or* an International Passport *with* accompanying Visa Grant Notification/VEVO documentation; and • Queensland Drivers Licence *and/or* a valid QLD Adult Proof of Age Card (18+ card).
Course Costing	• $4,280 (Post QLD State Government Funding) • $3,055 for individuals with a valid Centrelink Healthcare Card (Post QLD State Government Funding)
Prerequisites	• Year 10 (or equivalent) completion of high school, preferably year 12, with evidence of studies in English, Mathematics and Physics. • Successful completion of Aviation Australia's Language, Literacy and Numeracy aptitude testing.
Outcome	• Statement of Results towards MEA40715 Certificate IV in Aeroskills (Mechanical) (Fixed-Wing Gas Turbine) upon successful completion of the prevocational Aeroskills program • If students are successful in gaining and completing an apprenticeship, a Certificate IV in Aeroskills qualification will be awarded. • CASR Part 147 Certificate of Recognition for CASR Part 66 basic knowledge examinations passed at over 75%

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