

MEA Aeroskills Training Package

TRAINING PACKAGE

Version 1.1

WA NOMINAL HOURS GUIDE

Introduction

This Guide has been generated to enable the stakeholders in the aeroskills industry in Western Australia to participate in the managed implementation of the National MEA Aeroskills Training Package.

This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing Training Package qualifications to new Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the endorsed components of the Training Package.

Version 1 of the MEA Aeroskills Training Package was released by Training.Gov.Au (TGA) on the 12/2/2015

Version 1.1 of the MEA Aeroskills Training Package was released by Training.Gov.Au (TGA) on the 14/4/2015

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications within 12 months of the release date of the Training Package on to Training.gov.au (TGA).

Students currently enrolled in an existing version of the Training Package qualification should be permitted to complete the program they enrolled in initially, unless the move to the related qualification from a Training Package can be made without disadvantage to a student.

Nominal Hours

The Commonwealth Department of Employment, Education and Workplace Relations' definition of nominal hours states:

"The value assigned to a structured program of study that nominally represents the anticipated hours of supervised learning and/or training deemed necessary to conduct training/learning and assessment activities associated with the program of study"

Source: National Quality Council Training Package Glossary Version V2.1 17/03/2010

<http://www.deewr.gov.au/Skills/Overview/Policy/TPDH/Downloads/Documents/TrainingPackGlossary.pdf>

Nominal hours are identified for each Training Package qualification. Total nominal hours may vary within a qualification depending on the selection of elective units of competency.

In Western Australia, nominal hours are used as a mechanism for funding allocation.

Contact Details

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Regulation and Licensing Implications

Regulatory requirements

Aviation maintenance is highly regulated by both the ADF and CASA. In the case of CASA, regulations are often based on International Civil Aviation Organisation (ICAO) requirements and are aligned with those of the European Aviation Safety Agency (EASA). Generally there is a fairly high level of alignment between CASA regulatory requirements and those specified by the ADF. Many units of competency and the structure of some qualifications in this Training Package are specifically aimed at satisfying regulatory requirements. Where applicable, regulations are referred to in units of competency and in qualifications, and individuals need to read and understand them. Their content is not repeated in units of competency or qualifications because of the risk of having out-dated information for some time after regulations and supporting publications are amended.

The ADF regulatory requirements associated with aviation maintenance are in the AAP7001.053 Technical Airworthiness Management Manual and the requirements for civilian technical personnel working on state aircraft and components for ADF contractors are found in DEF (AUST) 9022 Requirements for Civilian Personnel Maintaining State Aircraft and Aeronautical Product.

CASA requirements are in the following regulations and their related Manuals of Standards and Acceptable Means of Compliance publications:

- CASR Part 21 Certification and Airworthiness Requirements for Aircraft and Parts
- CASR Part 42 Continuing Airworthiness Requirements for Aircraft and Aeronautical Products
- CASR Part 66 Continuing Airworthiness – Aircraft Engineer Licences and Ratings
- CASR Part 145 Maintenance Organisation Requirements
- CASR Part 147 Maintenance Training Organisations

Licences

Aircraft maintenance engineer licences are issued in accordance with CASR Part 66 and details of the requirements for the grant of a licence are in the Part 66 Manual of Standards.

The licences and the related Aeroskills qualifications are:

- B1 with sub-categories B1.1, B1.2, B1.3 and B1.4 for certification of mechanical and electrical maintenance performed, respectively, on gas turbine fixed wing aircraft, piston engine fixed wing aircraft, gas turbine engine helicopters and piston engine helicopters. The qualification that provides a pathway to these licences is the Diploma of Aeroskills (Mechanical).
- B2 for certification of avionics maintenance on aircraft. The qualification that provides a pathway to this licence is the Diploma of Aeroskills (Avionics).

Individuals seeking the grant of a licence must do their off-job training and competency assessment at a Registered Training Organisation (RTO) that is registered to deliver the MEA Aeroskills Training Package and is also a CASR Part 147 Maintenance Training Organisation (MTO) operating in accordance with a CASA-approved Exposition. The Exposition has requirements additional to the Australian Qualifications Framework (AQF) with regard to conditions of training delivery, theory content, examinations and assessment of competency. Should an individual trained at an RTO that is not also a Part 147 MTO seek a licence they would be required to undergo recognition of prior learning (RPL) for relevant units at such an organisation and probably sit the applicable theory examinations. A full certified record of work performed and competency assessment is also required in the form of the Log of Industrial Experience and Achievement, or an acceptable alternative (see the MEA Aeroskills Training Package Assessment Guidelines for details).

At present the foregoing licensing information does not apply to most General Aviation maintenance organisations which are still operating under CAR30 provisions using maintenance engineers licensed under CAR31. The maintenance of small aircraft is expected to be covered by the CASRs (with amendments to cover small aircraft maintenance and licensing) from mid-2015. Until then, individuals seeking licences may complete the Certificate IV in Aeroskills (Mechatronics), but will also have to sit the CASA Basic Examinations. From mid-2015 CASA will no longer provide examinations and the Certificate IV in Aeroskills (Mechatronics) will become the sole avenue to the grant of a small aircraft licence.

The provisions for including small aircraft licensing within the B1 and B2 framework are expected to be finalised within the first half of 2014, with regulation amendments to follow, and possibly some amendment to the Certificate IV in Aeroskills (Mechatronics).

There are also A and C licences. The A licence enables individuals to release aircraft to service after performing a range of specified minor rectification tasks or the completion of up to the equivalent of a weekly check on an aircraft. Training consists of the completion of the Certificate II in Aircraft Line Maintenance at a CASR Part 147 MTO and specific task training at the CASR Part 145 Maintenance Organisation. There is also a path from Certificate IV in Aeroskills to A Licence through the completion of gap training specified in Skill Sets at a Part 147 MTO.

The C licence is used to release large aircraft to service after major maintenance. While not specifically aimed at this licence, there are a number of units of competency in the Advanced Diplomas of Aviation Maintenance Management (Mechanical) and (Avionic) that cover some of the responsibilities of such individuals.

Advice to contact CASA for authoritative information on licensing requirements

This MEA Aeroskills Training Package publication provides advisory information based on discussions with CASA, including their anticipated future requirements. All possible care has been taken in the preparation of this material however persons should not rely solely on this publication on matters involving CASA's current or proposed licensing requirements or arrangements.

Precise information on licensing, current and proposed compliance requirements can be obtained from CASA on telephone: 131 757 or at www.casa.gov.au

Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in version 1.1 of the MEA Aeroskills Training Package.

National Coder	National Title	Nominal Hours
MEA20415	Certificate II in Aeroskills	520
MEA20515	Certificate II in Aircraft Line Maintenance	620
MEA20615	Certificate II in Aircraft Surface Finishing	520
MEA30115	Certificate III in Aircraft Surface Finishing	736
MEA30215	Certificate III in Aeroskills (Mechatronics)	1040
MEA30315	Certificate III in Aircraft Life Support and Furnishing	836
MEA40615	Certificate IV in Aeroskills (Avionics)	1300
MEA40715	Certificate IV in Aeroskills (Mechanical)	1300
MEA40915	Certificate IV in Aircraft Surface Finishing	996
MEA41015	Certificate IV in Aeroskills (Mechatronics)	1730
MEA41115	Certificate IV in Aircraft Life Support and Furnishing	980
MEA41215	Certificate IV in Aeroskills (Armament)	950
MEA41315	Certificate IV in Aeroskills (Structures)	1120
MEA50115	Diploma of Aeroskills (Avionics)	2020
MEA50215	Diploma of Aeroskills (Mechanical)	2475
MEA50315	Diploma of Aviation Maintenance Management (Avionics)	575
MEA50415	Diploma of Aviation Maintenance Management (Mechanical)	630
MEA50515	Diploma of Aeroskills (Non-Destructive Testing)	1689
MEA50615	Diploma of Aeronautical Engineering	1380
MEA50715	Diploma of Avionic Engineering	1171
MEA60115	Advanced Diploma of Aviation Maintenance Management (Avionics)	1065
MEA60215	Advanced Diploma of Aviation Maintenance Management (Mechanical)	1120
MEA60315	Advanced Diploma of Aviation Non-Destructive Testing	2320
MEA60415	Advanced Diploma of Aeronautical Engineering	1786
MEA60515	Advanced Diploma of Avionic Engineering	1746

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in version 1.1 of the MEA Aeroskills Training Package.

National Code	National Title	Nominal Hours
MEA101	Interpret work health and safety practices in aviation maintenance	40
MEA103	Plan and organise aviation maintenance work activities	40
MEA105	Apply quality standards applicable to aviation maintenance	40
MEA107	Interpret and use aviation maintenance industry manuals and specifications	40
MEA108	Complete aviation maintenance industry documentation	40
MEA109	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance	40
MEA111	Perform administrative processes to prepare for certification of civil aircraft maintenance	40
MEA112	Plan and implement civil aircraft maintenance activities	80
MEA113	Supervise civil aircraft maintenance activities and manage human resources in the workplace	80
MEA114	Certify aeronautical product maintenance	60
MEA115	Plan and implement aeronautical product maintenance activities	40
MEA116	Apply work health and safety procedures at supervisor level in aviation maintenance	40
MEA117	Apply self in the aviation maintenance environment	20
MEA118	Conduct self in the aviation maintenance environment	20
MEA119	Perform administrative processes to prepare for certification of civil aircraft A level line mainten	60
MEA120	Manage an aviation maintenance quality system	60
MEA121	Manage aircraft/aeronautical product configuration	60
MEA122	Manage aircraft/equipment system performance testing	80
MEA123	Manage aviation maintenance work environment policy and practices	40
MEA124	Coordinate change programs in the aviation maintenance environment	40
MEA125	Develop aviation maintenance personnel	40
MEA126	Manage aircraft maintenance activities	100
MEA127	Provide technical advice in the maintenance and management of aircraft and aeronautical product	80
MEA128	Provide engineering advice in the modification, maintenance and management of aircraft systems	80
MEA129	Investigate technical aspects of aviation occurrences	80
MEA130	Manage deployed/detached aviation maintenance activities	120
MEA131	Manage the custody, transfer and disposal of aircraft, aeronautical product and support equipment	40
MEA132	Manage budgetary resources in the aviation maintenance environment	60
MEA133	Communicate aviation technical and maintenance management knowledge	40
MEA134	Establish, maintain and evaluate the organisation's work health and safety system	40
MEA135	Use computers in aviation maintenance-related integrated logistic support activities	40
MEA136	Assess aviation maintenance spares and manage repairable items	80

National Code	National Title	Nominal Hours
MEA137	Write aviation technical publications	40
MEA138	Perform aviation technical publication management activities	40
MEA139	Perform aviation maintenance-related integrated logistic support management activities	120
MEA140	Supervise aviation maintenance teams and perform maintenance quality inspections	40
MEA141	Manage risk in aviation maintenance	60
MEA142	Manage self in the aviation maintenance environment	40
MEA143	Develop and manage maintenance error management programs	60
MEA145	Conversion from allied trades for employment in aviation maintenance workshops	60
MEA146	Prepare and manage aviation maintenance organisation budgets and financial plans	80
MEA147	Perform airworthiness management and maintenance program tasks	50
MEA148	Apply mathematics and physics in aviation maintenance	55
MEA201	Remove and install miscellaneous aircraft electrical hardware/components	40
MEA202	Remove and install basic aircraft electrical system components	40
MEA203	Remove and install advanced aircraft electrical system components	60
MEA204	Remove and install basic aircraft instrument system components	40
MEA205	Remove and install advanced aircraft instrument system components	40
MEA206	Remove and install aircraft basic radio communication and navigation system components	40
MEA207	Remove and install aircraft electronic system components	140
MEA208	Remove and install aircraft pressurisation control system components	40
MEA209	Remove and install aircraft oxygen system components	40
MEA210	Inspect, test and troubleshoot basic aircraft electrical systems and components	80
MEA211	Inspect, test and troubleshoot advanced aircraft electrical systems and components	140
MEA212	Inspect, test and troubleshoot basic aircraft instrument systems and components	80
MEA213	Inspect, test and troubleshoot advanced aircraft instrument systems and components	80
MEA214	Inspect, test and troubleshoot aircraft basic communication and radio navigation systems and compone	80
MEA215	Inspect, test and troubleshoot advanced aircraft communications systems and components	80
MEA216	Inspect, test and troubleshoot instrument landing systems and components	60
MEA217	Inspect, test and troubleshoot fixed wing autopilot systems and components	60
MEA218	Inspect, test and troubleshoot rotary wing autopilot systems and components	60
MEA219	Inspect, test and troubleshoot aircraft pressurisation control systems and components	60
MEA220	Inspect, test and troubleshoot aircraft primary radar systems and components	60
MEA221	Inspect, test and troubleshoot aircraft secondary radar systems and components	60
MEA222	Inspect, test and troubleshoot aircraft oxygen systems and components	60
MEA223	Inspect aircraft electrical systems and components	40
MEA224	Inspect aircraft instrument systems and components	40
MEA225	Inspect fixed wing aircraft automatic flight control systems and components	40
MEA226	Inspect aircraft electronic systems and components	50

National Code	National Title	Nominal Hours
MEA227	Test and troubleshoot aircraft electrical systems and components	110
MEA228	Test and troubleshoot aircraft instrument systems and components	150
MEA229	Test and troubleshoot aircraft radio frequency navigation and communications systems and components	100
MEA230	Test and troubleshoot fixed wing aircraft automatic flight control systems and components	40
MEA231	Inspect, test and troubleshoot rotary wing aircraft automatic flight control systems and components	40
MEA232	Test and troubleshoot aircraft pulse systems and components	80
MEA233	Inspect, test and troubleshoot aircraft inertial navigation and reference systems and components	40
MEA234	Inspect, test and troubleshoot aircraft global navigation systems and components	40
MEA235	Perform advanced troubleshooting in aircraft avionic maintenance	210
MEA238	Perform routine removal and installation of miscellaneous aircraft electrical hardware/components	20
MEA239	Fabricate aircraft electrical looms and harnesses	40
MEA240	Use electrical test equipment to perform basic electrical tests	20
MEA241	Perform aircraft weight and balance calculations as a result of modifications	25
MEA246	Fabricate and/or repair aircraft electrical hardware or parts	40
MEA252	Test, align and troubleshoot aircraft synchro and servo system components	16
MEA260	Use electrical test equipment	20
MEA261	Use electronic test equipment	20
MEA262	Modify/repair aircraft component single layer printed circuit boards	16
MEA263	Modify/repair aircraft component multi-layer printed circuit boards	16
MEA264	Remove and install aircraft electrical/avionic components during line maintenance	40
MEA265	Remove and install general aircraft electrical hardware	40
MEA266	Terminate and repair aircraft optical fibre cable	35
MEA270	Lay out avionic systems	120
MEA271	Lay out avionic flight management systems	120
MEA274	Maintain basic light aircraft electrical systems and components	60
MEA275	Maintain basic light aircraft instrument systems and components	60
MEA276	Maintain basic aircraft communication and radio navigation systems and components	60
MEA277	Maintain twin engine aircraft electrical systems and components	60
MEA278	Inspect, test and troubleshoot instrument display systems and components	60
MEA279	Inspect, test and troubleshoot full authority digital engine control systems	60
MEA280	Inspect, test and troubleshoot flight management systems and components	60
MEA281	Maintain light aircraft AC powered instrument systems and components	60
MEA282	Repair or overhaul aircraft pulse system components	60
MEA283	Repair or overhaul aircraft display, control and distribution system components	60
MEA284	Repair or overhaul aircraft instrument system components	60
MEA285	Repair or overhaul aircraft radio frequency communication and navigation system components	60

National Code	National Title	Nominal Hours
MEA286	Repair or overhaul aircraft electrical/electro-mechanical components	60
MEA287	Repair or overhaul aircraft oxygen system components	60
MEA288	Repair or overhaul aircraft audio and visual systems and reproducers	60
MEA289	Maintain basic light aircraft avionic systems and components	60
MEA290	Fit avionic modification sheet metal components	60
MEA291	Inspect, test and troubleshoot fixed wing single axis autopilot systems and components	80
MEA301	Perform aircraft flight servicing	120
MEA302	Remove and install aircraft hydro-mechanical and landing gear system components	60
MEA303	Remove and install aircraft pneumatic system components	60
MEA304	Remove and install non-pressurised aircraft structural and non-structural components	60
MEA305	Remove and install aircraft fixed wing flight control system components	60
MEA306	Remove and install engines and engine system components	60
MEA307	Remove and install propeller systems and components	60
MEA308	Remove and install rotary wing rotor and flight control system components	60
MEA309	Inspect, test and troubleshoot aircraft hydro-mechanical and landing gear systems and components	120
MEA310	Inspect, test and troubleshoot aircraft pneumatic systems and components	60
MEA312	Inspect, test and troubleshoot aircraft fixed wing flight control systems and components	60
MEA313	Inspect, test and troubleshoot piston engine systems and components	120
MEA314	Inspect, test and troubleshoot gas turbine engine systems and components	120
MEA315	Inspect, test and troubleshoot propeller systems and components	60
MEA316	Inspect, test and troubleshoot rotary wing rotor and control systems and components	80
MEA317	Remove and install pressurised aircraft structural and non-structural components	60
MEA318	Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear systems and components	60
MEA319	Inspect gas turbine engine systems and components	80
MEA320	Test and troubleshoot aircraft hydro-mechanical, gaseous and landing gear systems and components	60
MEA321	Test and troubleshoot aircraft fixed wing flight control systems and components	60
MEA322	Test and troubleshoot gas turbine engine systems and components	60
MEA323	Perform advanced troubleshooting in aircraft mechanical maintenance	210
MEA325	Weigh aircraft and perform aircraft weight and balance calculations as a result of modifications	40
MEA327	Fabricate and/or repair aircraft mechanical components or parts	100
MEA328	Maintain and/or repair aircraft mechanical components or parts	100
MEA329	Maintain aircraft basic hydraulic and pneumatic components or parts	60
MEA330	Maintain aircraft non-primary structural removable components or parts and internal fittings	60
MEA331	Maintain aircraft gas turbine engine components or parts	60
MEA332	Maintain aircraft mechanical components or parts	60
MEA333	Maintain aircraft piston engine components or parts	60

National Code	National Title	Nominal Hours
MEA339	Inspect, repair and maintain aircraft structures	140
MEA340	Lay out and set up aircraft systems	120
MEA341	Apply basic aircraft design characteristics	120
MEA342	Apply basic aircraft power plant design characteristics	120
MEA343	Remove and install avionics system components	40
MEA344	Remove and install aircraft components	60
MEA345	Perform scheduled line maintenance activities on gas turbine engine fixed wing aircraft	80
MEA346	Perform scheduled line maintenance activities on gas turbine engine rotary wing aircraft	80
MEA347	Perform scheduled line maintenance activities on piston engine fixed wing aircraft	80
MEA348	Perform scheduled line maintenance activities on piston engine rotary wing aircraft	80
MEA351	Maintain airframe systems of basic light fixed wing aircraft	90
MEA352	Maintain basic rotary wing aircraft systems	110
MEA353	Maintain basic light aircraft engines and propellers	70
MEA354	Maintain light aircraft pneumatic systems	70
MEA355	Maintain light aircraft air cycle air conditioning systems	50
MEA356	Maintain light piston engine aircraft pressurisation systems	70
MEA357	Inspect, test and repair aircraft fabric surfaces	50
MEA358	Re-cover aircraft fabric surfaces	50
MEA359	Inspect and repair aircraft wooden structures	50
MEA360	Maintain aircraft diesel engines	70
MEA361	Maintain aircraft two stroke petrol engines	70
MEA362	Maintain aircraft vapour cycle air conditioning systems	50
MEA364	Maintain and/or repair small aircraft mechanical components or parts	90
MEA365	Assess structural repair/modification requirements and evaluate structural repairs and modifications	60
MEA366	Perform borescope inspections	50
MEA367	Repair/modify aircraft composite structure using cold bonding	60
MEA368	Shot peen aircraft components	40
MEA369	Inspect and maintain structures and related components of non-pressurised small aircraft	55
MEA370	Repair the structure of non-pressurised small aircraft	55
MEA371	Perform major repairs and modifications to small aircraft metal structure	90
MEA372	Perform mechanical elementary maintenance	55
MEA380	Repair and/or overhaul aircraft hydraulic system components	110
MEA381	Repair and/or overhaul aircraft pneumatic system components	110
MEA382	Repair and/or overhaul aircraft fuel system components	70
MEA383	Repair and/or overhaul gas turbine engine air inlet and compressor components and/or modules	70
MEA384	Repair and/or overhaul gas turbine engine combustion section components and/or modules	70
MEA385	Repair and/or overhaul gas turbine engine turbine and exhaust section components	70

National Code	National Title	Nominal Hours
MEA386	Repair and/or overhaul gas turbine engine ancillary section components	70
MEA387	Test gas turbine engines and engine modules after overhaul or repair	70
MEA389	Repair and/or overhaul propellers	110
MEA390	Repair and/or overhaul rotary wing dynamic components	190
MEA391	Repair and/or overhaul aircraft mechanical system components	130
MEA392	Disassemble aircraft piston engines	35
MEA393	Repair and/or overhaul aircraft piston engine cylinder assembly components	35
MEA394	Repair and/or overhaul aircraft piston engine crankcase assembly components	35
MEA395	Reassemble aircraft piston engines	35
MEA396	Assemble aircraft piston engine quick engine change unit	25
MEA397	Test aircraft piston engines after repair or overhaul	35
MEA401	Inspect aircraft structures	60
MEA405	Repair/modify aircraft composite material structure/components	100
MEA406	Repair/modify aircraft non-primary structural sheet metal components	60
MEA407	Repair/modify aircraft non-primary structural non-metallic components	60
MEA410	Maintain aircraft structure/components	80
MEA411	Remove surface coatings from aircraft or aircraft components	40
MEA412	Pre-treat aluminium alloy surfaces	40
MEA413	Seal aircraft and aircraft component structural seams	40
MEA414	Remove light corrosion from aircraft	80
MEA415	Paint aircraft surfaces	60
MEA416	Apply aircraft identification markings, graphics and decals	60
MEA417	Apply specialty coatings to aircraft	80
MEA418	Perform basic repair of aircraft internal fittings during line maintenance	40
MEA419	Inspect and repair/modify aircraft cabin/cockpit non-primary structure components	50
MEA420	Fabricate basic structural components for aircraft	100
MEA421	Fabricate advanced structural components for aircraft	100
MEA422	Repair/modify aircraft metal structure	80
MEA423	Aircraft structure major disassembly and reassembly	80
MEA424	Evaluate aircraft non-destructive tests	80
MEA425	Perform bolted composite skin repairs	25
MEA430	Gas weld aircraft components	40
MEA431	Braze weld aircraft components	40
MEA432	Weld aircraft components using the gas tungsten arc welding process	40
MEA433	Weld aircraft components using the gas metal arc welding process	40
MEA434	Weld aircraft components using the plasma arc welding process	40
MEA435	Weld aircraft components using the manual metal arc welding process	40
MEA501	Maintain and fit anti-G suits	30
MEA502	Maintain and fit helmets	30

National Code	National Title	Nominal Hours
MEA503	Maintain and fit immersion suits	30
MEA504	Maintain and fit oxygen masks	30
MEA505	Maintain and pack parachutes	30
MEA507	Maintain, pack and fit survival inflatable buoyancy vests	30
MEA508	Maintain, install and remove restraint systems	30
MEA509	Manufacture, repair and alter aircraft related fabric components	30
MEA510	Maintain seat and pod electrical and electronic systems	30
MEA511	Operate and maintain sewing machines and overlockers	50
MEA512	Maintain general aviation recovery devices with ballistic parachute systems	55
MEA513	Maintain and pack survival inflatable life rafts	35
MEA514	Maintain and pack escape slides	35
MEA601	Maintain aircraft egress systems	120
MEA602	Remove and install aircraft stores management system components	60
MEA603	Remove and install aircraft stores suspension system components	60
MEA604	Inspect, test and troubleshoot aircraft stores management systems and components	60
MEA605	Inspect, test and troubleshoot aircraft stores suspension systems and components	80
MEA701	Produce aeronautical engineering related graphics	70
MEA702	Produce avionics engineering related graphics	70
MEA703	Apply aeronautical modelling for computer-aided engineering	70
MEA704	Apply avionic modelling for computer-aided engineering	70
MEA705	Apply basic scientific principles and techniques in aeronautical engineering situations	110
MEA706	Apply basic scientific principles and techniques in avionic engineering situations	70
MEA707	Select and test aeronautical engineering materials	70
MEA708	Select and test avionic engineering materials	55
MEA709	Apply aeronautical structure design techniques	70
MEA710	Apply aeronautical system design techniques	70
MEA711	Apply avionic analogue design techniques	70
MEA712	Apply avionic digital design techniques	70
MEA713	Integrate aeronautical fundamentals into an engineering task	70
MEA714	Integrate avionic fundamentals into an engineering task	70
MEA715	Evaluate aeroplane flight control systems	70
MEA716	Evaluate avionic analogue systems	70
MEA717	Evaluate avionic digital systems	70
MEA718	Evaluate rotorcraft flight control systems	70
MEA719	Evaluate aircraft electrical systems	70
MEA720	Evaluate aircraft gas turbine engine power plants	70
MEA721	Evaluate aircraft hydro-mechanical systems	70
MEA722	Evaluate aircraft piston engine power plants	70
MEA723	Evaluate aircraft pneumatic systems	70

National Code	National Title	Nominal Hours
MEA724	Evaluate aircraft structure	70
MEA725	Apply advanced scientific principles and techniques in avionic engineering situations	55
MEA726	Apply aircraft electrical system design techniques	55
MEA727	Apply calculus in avionic engineering situations	55
MEA729	Apply configuration management procedures in airworthiness engineering management	70
MEA730	Apply systems engineering procedures to airworthiness engineering design project management	70

Mapping Qualifications

The following table provides an overview of the qualifications from Version 1 which replace qualifications from the existing version of the MEA11 Aeroskills Training Package

MEA11 Current Qualification				MEA Replacement Qualification		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA20411	Certificate II in Aeroskills	520	E	MEA20415	Certificate II in Aeroskills	520
MEA20511	Certificate II in Aircraft Line Maintenance	620	E	MEA20515	Certificate II in Aircraft Line Maintenance	620
MEA20611	Certificate II in Aircraft Surface Finishing	520	E	MEA20615	Certificate II in Aircraft Surface Finishing	520
MEA30111	Certificate III in Aircraft Surface Finishing	736	E	MEA30115	Certificate III in Aircraft Surface Finishing	736
MEA30211	Certificate III in Aeroskills (Mechatronics)	1140	E	MEA30215	Certificate III in Aeroskills (Mechatronics)	1040
MEA30311	Certificate III in Aircraft Life Support and Furnishing	836	E	MEA30315	Certificate III in Aircraft Life Support and Furnishing	836
MEA40611	Certificate IV in Aeroskills (Avionics)	1300	E	MEA40615	Certificate IV in Aeroskills (Avionics)	1300
MEA40711	Certificate IV in Aeroskills (Mechanical)	1300	E	MEA40715	Certificate IV in Aeroskills (Mechanical)	1300
MEA40911	Certificate IV in Aircraft Surface Finishing	996	E	MEA40915	Certificate IV in Aircraft Surface Finishing	996
MEA41011	Certificate IV in Aeroskills (Mechatronics)	1600	E	MEA41015	Certificate IV in Aeroskills (Mechatronics)	1730
MEA41111	Certificate IV in Aircraft Life Support and Furnishing	980	E	MEA41115	Certificate IV in Aircraft Life Support and Furnishing	980
MEA41213	Certificate IV in Aeroskills (Armament)	1150	E	MEA41215	Certificate IV in Aeroskills (Armament)	950
MEA41311	Certificate IV in Aeroskills (Structures)	1120	E	MEA41315	Certificate IV in Aeroskills (Structures)	1120
MEA50111	Diploma of Aeroskills (Avionics)	1965	E	MEA50115	Diploma of Aeroskills (Avionics)	2020
MEA50211	Diploma of Aeroskills (Mechanical)	2430	E	MEA50215	Diploma of Aeroskills (Mechanical)	2475
MEA50311	Diploma of Aviation Maintenance Management (Avionics)	540	E	MEA50315	Diploma of Aviation Maintenance Management (Avionics)	575
MEA50411	Diploma of Aviation Maintenance Management (Mechanical)	640	E	MEA50415	Diploma of Aviation Maintenance Management (Mechanical)	630
MEA50511	Diploma of Aeroskills (Non-Destructive Testing)	1140	E	MEA50515	Diploma of Aeroskills (Non-Destructive Testing)	1689
			-	MEA50615	Diploma of Aeronautical Engineering	1380

MEA11 Current Qualification				MEA Replacement Qualification		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
			-	MEA50715	Diploma of Avionic Engineering	1171
MEA60111	Advanced Diploma of Aviation Maintenance Management (Avionics)	1170	E	MEA60115	Advanced Diploma of Aviation Maintenance Management (Avionics)	1065
MEA60211	Advanced Diploma of Aviation Maintenance Management (Mechanical)	1170	E	MEA60215	Advanced Diploma of Aviation Maintenance Management (Mechanical)	1120
MEA60311	Advanced Diploma of Aviation Non-Destructive Testing	1720	E	MEA60315	Advanced Diploma of Aviation Non-Destructive Testing	2320
			-	MEA60415	Advanced Diploma of Aeronautical Engineering	1786
			-	MEA60515	Advanced Diploma of Avionic Engineering	1746

Mapping Units of Competency

The following table provides an overview of the units of competency from Version 1 which replaces units of competency from the existing version of the MEA Aeroskills Training Package.

National Code	MEA11 Current Unit			MEA Replacement Unit		
	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA101B	Interpret occupational health and safety practices in aviation maintenance	40	E	MEA101	Interpret work health and safety practices in aviation maintenance	40
MEA103B	Plan and organise aviation maintenance work activities	40	E	MEA103	Plan and organise aviation maintenance work activities	40
MEA105C	Apply quality standards applicable to aviation maintenance processes	40	E	MEA105	Apply quality standards applicable to aviation maintenance	40
MEA107B	Interpret and use aviation maintenance industry manuals and specifications	40	E	MEA107	Interpret and use aviation maintenance industry manuals and specifications	40
MEA108B	Complete aviation maintenance industry documentation	40	E	MEA108	Complete aviation maintenance industry documentation	40
MEA109B	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance	40	E	MEA109	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance	40
MEA111C	Perform administrative processes to prepare for certification of civil aircraft maintenance	40	E	MEA111	Perform administrative processes to prepare for certification of civil aircraft maintenance	40
MEA112B	Plan and implement civil aircraft maintenance activities	80	E	MEA112	Plan and implement civil aircraft maintenance activities	80
MEA113C	Supervise civil aircraft maintenance activities and manage human resources in the workplace	80	E	MEA113	Supervise civil aircraft maintenance activities and manage human resources in the workplace	80
MEA114A	Certify aeronautical product maintenance	60	E	MEA114	Certify aeronautical product maintenance	60
MEA115A	Plan and implement aeronautical product maintenance activities	40	E	MEA115	Plan and implement aeronautical product maintenance activities	40
MEA116B	Apply occupational health and safety procedures at supervisor level in aviation maintenance	40	E	MEA116	Apply work health and safety procedures at supervisor level in aviation maintenance	40
MEA117A	Apply self in the aviation maintenance environment	20	E	MEA117	Apply self in the aviation maintenance environment	20
MEA118A	Conduct self in the aviation maintenance environment	20	E	MEA118	Conduct self in the aviation maintenance environment	20
MEA119B	Perform administrative processes to prepare for	60	E	MEA119	Perform administrative processes to prepare for	60

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
	certification of civil aircraft A level line maintenance				certification of civil aircraft A level line mainten	
MEA120B	Manage an aviation maintenance quality system	60	E	MEA120	Manage an aviation maintenance quality system	60
MEA121B	Manage aircraft/aeronautical product configuration	60	E	MEA121	Manage aircraft/aeronautical product configuration	60
MEA122B	Manage aircraft/equipment system performance testing	80	E	MEA122	Manage aircraft/equipment system performance testing	80
MEA123B	Manage aviation maintenance work environment policy and practices	40	E	MEA123	Manage aviation maintenance work environment policy and practices	40
MEA124B	Coordinate change programs in the aviation maintenance environment	40	E	MEA124	Coordinate change programs in the aviation maintenance environment	40
MEA125B	Develop aviation maintenance personnel	40	E	MEA125	Develop aviation maintenance personnel	40
MEA126B	Manage aircraft maintenance activities	100	E	MEA126	Manage aircraft maintenance activities	100
MEA127B	Provide technical advice in the maintenance and management of aircraft and aeronautical product	80	E	MEA127	Provide technical advice in the maintenance and management of aircraft and aeronautical product	80
MEA128B	Provide engineering advice in the modification, maintenance and management of aircraft systems	80	E	MEA128	Provide engineering advice in the modification, maintenance and management of aircraft systems	80
MEA129A	Investigate technical aspects of aviation occurrences	80	E	MEA129	Investigate technical aspects of aviation occurrences	80
MEA130A	Manage deployed/detached aviation maintenance activities	120	E	MEA130	Manage deployed/detached aviation maintenance activities	120
MEA131B	Manage the custody, transfer and disposal of aircraft, aeronautical product and support equipment	40	E	MEA131	Manage the custody, transfer and disposal of aircraft, aeronautical product and support equipment	40
MEA132A	Manage budgetary resources in the aviation maintenance environment	60	E	MEA132	Manage budgetary resources in the aviation maintenance environment	60
MEA133B	Communicate aviation technical and maintenance management knowledge	40	E	MEA133	Communicate aviation technical and maintenance management knowledge	40
MEA134B	Establish, maintain and evaluate the organisation's occupational health and safety system	40	E	MEA134	Establish, maintain and evaluate the organisation's work health and safety system	40
MEA135A	Use computers in aviation maintenance-related integrated logistic support activities	40	E	MEA135	Use computers in aviation maintenance-related integrated logistic support activities	40
MEA136A	Assess aviation maintenance spares and manage	80	E	MEA136	Assess aviation maintenance spares and manage	80

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
	repairable items				repairable items	
MEA137A	Write aviation technical publications	40	E	MEA137	Write aviation technical publications	40
MEA138B	Perform aviation technical publication management activities	40	E	MEA138	Perform aviation technical publication management activities	40
MEA139A	Perform aviation maintenance-related integrated logistic support management activities	120	E	MEA139	Perform aviation maintenance-related integrated logistic support management activities	120
MEA140A	Supervise aviation maintenance teams and perform maintenance quality inspections	40	E	MEA140	Supervise aviation maintenance teams and perform maintenance quality inspections	40
MEA141B	Manage risk in aviation maintenance	60	E	MEA141	Manage risk in aviation maintenance	60
MEA142B	Manage self in the aviation maintenance environment	40	E	MEA142	Manage self in the aviation maintenance environment	40
MEA143B	Develop and manage maintenance error management programs	60	E	MEA143	Develop and manage maintenance error management programs	60
MEA145A	Conversion from allied trades for employment in aviation maintenance workshops	60	E	MEA145	Conversion from allied trades for employment in aviation maintenance workshops	60
MEA146A	Prepare and manage aviation maintenance organisation budgets and financial plans	80	E	MEA146	Prepare and manage aviation maintenance organisation budgets and financial plans	80
MEA147A	Perform airworthiness management and maintenance program tasks	50	E	MEA147	Perform airworthiness management and maintenance program tasks	50
			-	MEA148	Apply mathematics and physics in aviation maintenance	55
MEA201B	Remove and install miscellaneous aircraft electrical hardware/components	40	E	MEA201	Remove and install miscellaneous aircraft electrical hardware/components	40
MEA202C	Remove and install basic aircraft electrical system components	40	E	MEA202	Remove and install basic aircraft electrical system components	40
MEA203C	Remove and install advanced aircraft electrical system components	60	E	MEA203	Remove and install advanced aircraft electrical system components	60
MEA204C	Remove and install basic aircraft instrument system components	40	E	MEA204	Remove and install basic aircraft instrument system components	40
MEA205C	Remove and install advanced aircraft instrument system components	40	E	MEA205	Remove and install advanced aircraft instrument system components	40

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA206C	Remove and install aircraft basic radio communication and navigation system components	40	E	MEA206	Remove and install aircraft basic radio communication and navigation system components	40
MEA207C	Remove and install aircraft electronic system components	140	E	MEA207	Remove and install aircraft electronic system components	140
MEA208C	Remove and install aircraft pressurisation control system components	40	E	MEA208	Remove and install aircraft pressurisation control system components	40
MEA209C	Remove and install aircraft oxygen system components	40	E	MEA209	Remove and install aircraft oxygen system components	40
MEA210C	Inspect, test and troubleshoot basic aircraft electrical systems and components	80	E	MEA210	Inspect, test and troubleshoot basic aircraft electrical systems and components	80
MEA211C	Inspect, test and troubleshoot advanced aircraft electrical systems and components	140	E	MEA211	Inspect, test and troubleshoot advanced aircraft electrical systems and components	140
MEA212C	Inspect, test and troubleshoot basic aircraft instrument systems and components	80	E	MEA212	Inspect, test and troubleshoot basic aircraft instrument systems and components	80
MEA213C	Inspect, test and troubleshoot advanced aircraft instrument systems	80	E	MEA213	Inspect, test and troubleshoot advanced aircraft instrument systems and components	80
MEA214C	Inspect, test and troubleshoot aircraft basic communication and radio navigation systems and components	80	E	MEA214	Inspect, test and troubleshoot aircraft basic communication and radio navigation systems and compone	80
MEA215C	Inspect, test and troubleshoot advanced aircraft communications systems and components	80	E	MEA215	Inspect, test and troubleshoot advanced aircraft communications systems and components	80
MEA216C	Inspect, test and troubleshoot instrument landing systems and components	60	E	MEA216	Inspect, test and troubleshoot instrument landing systems and components	60
MEA217C	Inspect, test and troubleshoot fixed wing autopilot systems and components	60	E	MEA217	Inspect, test and troubleshoot fixed wing autopilot systems and components	60
MEA218C	Inspect, test and troubleshoot rotary wing autopilot systems and components	60	E	MEA218	Inspect, test and troubleshoot rotary wing autopilot systems and components	60
MEA219C	Inspect, test and troubleshoot aircraft pressurisation control systems and components	60	E	MEA219	Inspect, test and troubleshoot aircraft pressurisation control systems and components	60
MEA220C	Inspect, test and troubleshoot aircraft primary radar systems and components	60	E	MEA220	Inspect, test and troubleshoot aircraft primary radar systems and components	60

National Code	MEA11 Current Unit			MEA Replacement Unit		
	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA221C	Inspect, test and troubleshoot aircraft secondary radar systems and components	60	E	MEA221	Inspect, test and troubleshoot aircraft secondary radar systems and components	60
MEA222C	Inspect, test and troubleshoot aircraft oxygen systems and components	60	E	MEA222	Inspect, test and troubleshoot aircraft oxygen systems and components	60
MEA223D	Inspect aircraft electrical systems and components	40	E	MEA223	Inspect aircraft electrical systems and components	40
MEA224C	Inspect aircraft instrument systems and components	40	E	MEA224	Inspect aircraft instrument systems and components	40
MEA225C	Inspect fixed wing aircraft automatic flight control systems and components	40	E	MEA225	Inspect fixed wing aircraft automatic flight control systems and components	40
MEA226D	Inspect aircraft electronic systems and components	50	NE	MEA226	Inspect aircraft electronic systems and components	50
MEA227D	Test and troubleshoot aircraft electrical systems and components	110	E	MEA227	Test and troubleshoot aircraft electrical systems and components	110
MEA228D	Test and troubleshoot aircraft instrument systems and components	150	E	MEA228	Test and troubleshoot aircraft instrument systems and components	150
MEA229D	Test and troubleshoot aircraft radio frequency navigation and communications systems and components	100	E	MEA229	Test and troubleshoot aircraft radio frequency navigation and communications systems and components	100
MEA230C	Test and troubleshoot fixed wing aircraft automatic flight control systems and components	40	E	MEA230	Test and troubleshoot fixed wing aircraft automatic flight control systems and components	40
MEA231C	Inspect, test and troubleshoot rotary wing aircraft automatic flight control systems and components	40	E	MEA231	Inspect, test and troubleshoot rotary wing aircraft automatic flight control systems and components	40
MEA232C	Test and troubleshoot aircraft pulse systems and components	80	NE	MEA232	Test and troubleshoot aircraft pulse systems and components	80
MEA233C	Inspect, test and troubleshoot aircraft inertial navigation and reference systems and components	40	E	MEA233	Inspect, test and troubleshoot aircraft inertial navigation and reference systems and components	40
MEA234C	Inspect, test and troubleshoot aircraft global navigation systems and components	40	E	MEA234	Inspect, test and troubleshoot aircraft global navigation systems and components	40
MEA235B	Perform advanced troubleshooting in aircraft avionic maintenance	210	E	MEA235	Perform advanced troubleshooting in aircraft avionic maintenance	210
MEA238B	Perform routine removal and installation of miscellaneous aircraft electrical hardware/components	20	E	MEA238	Perform routine removal and installation of miscellaneous aircraft electrical hardware/components	20

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA239B	Fabricate aircraft electrical looms and harnesses	40	E	MEA239	Fabricate aircraft electrical looms and harnesses	40
MEA240B	Use electrical test equipment to perform basic electrical tests	20	E	MEA240	Use electrical test equipment to perform basic electrical tests	20
MEA241C	Perform aircraft weight and balance calculations as a result of modifications	25	E	MEA241	Perform aircraft weight and balance calculations as a result of modifications	25
MEA246C	Fabricate and/or repair aircraft electrical hardware or parts	40	E	MEA246	Fabricate and/or repair aircraft electrical hardware or parts	40
MEA252B	Test, align and troubleshoot aircraft synchro and servo system components	16	E	MEA252	Test, align and troubleshoot aircraft synchro and servo system components	16
MEA260B	Use electrical test equipment	20	E	MEA260	Use electrical test equipment	20
MEA261C	Use electronic test equipment	20	E	MEA261	Use electronic test equipment	20
MEA262B	Modify/repair aircraft component single layer printed circuit boards	16	E	MEA262	Modify/repair aircraft component single layer printed circuit boards	16
MEA263B	Modify/repair aircraft component multi-layer printed circuit boards	16	E	MEA263	Modify/repair aircraft component multi-layer printed circuit boards	16
MEA264A	Remove and install aircraft electrical/avionic components during line maintenance	40	E	MEA264	Remove and install aircraft electrical/avionic components during line maintenance	40
MEA265A	Remove and install general aircraft electrical hardware	40	E	MEA265	Remove and install general aircraft electrical hardware	40
			-	MEA266	Terminate and repair aircraft optical fibre cable	35
MEA270A	Lay out avionic systems	120	E	MEA270	Lay out avionic systems	120
MEA271A	Lay out avionic flight management systems	120	E	MEA271	Lay out avionic flight management systems	120
MEA274A	Maintain basic light aircraft electrical systems and components	60	E	MEA274	Maintain basic light aircraft electrical systems and components	60
MEA275A	Maintain basic light aircraft instrument systems and components	60	E	MEA275	Maintain basic light aircraft instrument systems and components	60
MEA276A	Maintain basic aircraft communication and radio navigation systems and components	60	E	MEA276	Maintain basic aircraft communication and radio navigation systems and components	60
MEA277A	Maintain twin engine aircraft electrical systems and components	60	E	MEA277	Maintain twin engine aircraft electrical systems and components	60

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA278A	Inspect, test and troubleshoot instrument display systems and components	60	E	MEA278	Inspect, test and troubleshoot instrument display systems and components	60
MEA279A	Inspect, test and troubleshoot full authority digital engine control systems	60	E	MEA279	Inspect, test and troubleshoot full authority digital engine control systems	60
MEA280A	Inspect, test and troubleshoot flight management systems and components	60	E	MEA280	Inspect, test and troubleshoot flight management systems and components	60
MEA281A	Maintain light aircraft AC powered instrument systems and components	60	E	MEA281	Maintain light aircraft AC powered instrument systems and components	60
MEA282A	Repair or overhaul aircraft pulse system components	60	E	MEA282	Repair or overhaul aircraft pulse system components	60
MEA283A	Repair or overhaul aircraft display, control and distribution system components	60	E	MEA283	Repair or overhaul aircraft display, control and distribution system components	60
MEA284A	Repair or overhaul aircraft instrument system components	60	E	MEA284	Repair or overhaul aircraft instrument system components	60
MEA285A	Repair or overhaul aircraft radio frequency communication and navigation system components	60	E	MEA285	Repair or overhaul aircraft radio frequency communication and navigation system components	60
MEA286A	Repair or overhaul aircraft electrical/electro-mechanical components	60	E	MEA286	Repair or overhaul aircraft electrical/electro-mechanical components	60
MEA287A	Repair or overhaul aircraft oxygen system components	60	E	MEA287	Repair or overhaul aircraft oxygen system components	60
MEA288A	Repair or overhaul aircraft audio and visual systems and reproducers	60	E	MEA288	Repair or overhaul aircraft audio and visual systems and reproducers	60
MEA289A	Maintain basic light aircraft avionic systems and components	60	E	MEA289	Maintain basic light aircraft avionic systems and components	60
MEA290A	Fit avionic modification sheetmetal components	60	E	MEA290	Fit avionic modification sheet metal components	60
MEA291A	Inspect, test and troubleshoot fixed wing single axis autopilot systems and components	80	E	MEA291	Inspect, test and troubleshoot fixed wing single axis autopilot systems and components	80
MEA301C	Perform aircraft flight servicing	120	E	MEA301	Perform aircraft flight servicing	120
MEA302C	Remove and install aircraft hydro-mechanical and landing gear system components	60	E	MEA302	Remove and install aircraft hydro-mechanical and landing gear system components	60
MEA303D	Remove and install pneumatic system components	60	E	MEA303	Remove and install aircraft pneumatic system components	60

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA304C	Remove and install non-pressurised aircraft structural and non-structural components	60	E	MEA304	Remove and install non-pressurised aircraft structural and non-structural components	60
MEA305C	Remove and install aircraft fixed wing flight control system components	60	E	MEA305	Remove and install aircraft fixed wing flight control system components	60
MEA306C	Remove and install engines and engine system components	60	E	MEA306	Remove and install engines and engine system components	60
MEA307C	Remove and install propeller systems and components	60	E	MEA307	Remove and install propeller systems and components	60
MEA308C	Remove and install rotary wing rotor and flight control system components	60	E	MEA308	Remove and install rotary wing rotor and flight control system components	60
MEA309C	Inspect, test and troubleshoot aircraft hydro-mechanical and landing gear systems and components	120	E	MEA309	Inspect, test and troubleshoot aircraft hydro-mechanical and landing gear systems and components	120
MEA310C	Inspect, test and troubleshoot aircraft pneumatic systems and components	60	E	MEA310	Inspect, test and troubleshoot aircraft pneumatic systems and components	60
MEA312C	Inspect, test and troubleshoot aircraft fixed wing flight control systems and components	60	E	MEA312	Inspect, test and troubleshoot aircraft fixed wing flight control systems and components	60
MEA313C	Inspect, test and troubleshoot piston engine systems and components	120	E	MEA313	Inspect, test and troubleshoot piston engine systems and components	120
MEA314C	Inspect, test and troubleshoot gas turbine engine systems and components	120	E	MEA314	Inspect, test and troubleshoot gas turbine engine systems and components	120
MEA315C	Inspect, test and troubleshoot propeller systems and components	60	E	MEA315	Inspect, test and troubleshoot propeller systems and components	60
MEA316C	Inspect, test and troubleshoot rotary wing rotor and control systems and components	80	E	MEA316	Inspect, test and troubleshoot rotary wing rotor and control systems and components	80
MEA317C	Remove and install pressurised aircraft structural and non-structural components	60	E	MEA317	Remove and install pressurised aircraft structural and non-structural components	60
MEA318C	Inspect aircraft hydro-mechanical, mechanical, gaseous and landing systems and components	60	E	MEA318	Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear systems and components	60
MEA319C	Inspect gas turbine engine systems and components	80	E	MEA319	Inspect gas turbine engine systems and components	80
MEA320C	Test and troubleshoot aircraft hydro-mechanical, mechanical, gaseous and landing gear systems and	60	E	MEA320	Test and troubleshoot aircraft hydro-mechanical, gaseous and landing gear systems and components	60

National Code	MEA11 Current Unit			MEA Replacement Unit		
	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
	components					
MEA321C	Test and troubleshoot aircraft fixed wing flight control systems and components	60	E	MEA321	Test and troubleshoot aircraft fixed wing flight control systems and components	60
MEA322C	Test and troubleshoot gas turbine engine systems and components	60	E	MEA322	Test and troubleshoot gas turbine engine systems and components	60
MEA323B	Perform advanced troubleshooting in aircraft mechanical maintenance	210	E	MEA323	Perform advanced troubleshooting in aircraft mechanical maintenance	210
MEA325B	Weigh aircraft and perform aircraft weight and balance calculations as a result of modifications	40	E	MEA325	Weigh aircraft and perform aircraft weight and balance calculations as a result of modifications	40
MEA327B	Fabricate and/or repair aircraft mechanical components or parts	100	E	MEA327	Fabricate and/or repair aircraft mechanical components or parts	100
MEA328C	Maintain and/or repair aircraft mechanical components or parts	100	E	MEA328	Maintain and/or repair aircraft mechanical components or parts	100
MEA329B	Dismantle, inspect, maintain and assemble aircraft basic hydraulic and pneumatic components or parts	60	E	MEA329	Maintain aircraft basic hydraulic and pneumatic components or parts	60
MEA330B	Dismantle, inspect, maintain and assemble aircraft non-primary structural removable components or parts and internal fittings	60	E	MEA330	Maintain aircraft non-primary structural removable components or parts and internal fittings	60
MEA331B	Dismantle, inspect, maintain and assemble aircraft gas turbine engine components or parts	60	E	MEA331	Maintain aircraft gas turbine engine components or parts	60
MEA332B	Dismantle, inspect, maintain and assemble aircraft mechanical components or parts	60	E	MEA332	Maintain aircraft mechanical components or parts	60
MEA333B	Dismantle, inspect, maintain and assemble aircraft piston engine components or parts	60	E	MEA333	Maintain aircraft piston engine components or parts	60
MEA339C	Inspect, repair and maintain aircraft structures	140	E	MEA339	Inspect, repair and maintain aircraft structures	140
MEA340A	Lay out and set up aircraft systems	120	E	MEA340	Lay out and set up aircraft systems	120
MEA341A	Apply basic aircraft design characteristics	120	E	MEA341	Apply basic aircraft design characteristics	120
MEA342A	Apply basic aircraft power plant design characteristics	120	E	MEA342	Apply basic aircraft power plant design characteristics	120
MEA343B	Remove and install avionic system components	40	E	MEA343	Remove and install avionic system components	40

National Code	MEA11 Current Unit			MEA Replacement Unit		
	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA344A	Remove and install aircraft components	60	E	MEA344	Remove and install aircraft components	60
MEA345A	Perform scheduled line maintenance activities on gas turbine engine fixed wing aircraft	80	E	MEA345	Perform scheduled line maintenance activities on gas turbine engine fixed wing aircraft	80
MEA346A	Perform scheduled line maintenance activities on gas turbine engine rotary wing aircraft	80	E	MEA346	Perform scheduled line maintenance activities on gas turbine engine rotary wing aircraft	80
MEA347A	Perform scheduled line maintenance activities on piston engine fixed wing aircraft	80	E	MEA347	Perform scheduled line maintenance activities on piston engine fixed wing aircraft	80
MEA348A	Perform scheduled line maintenance activities on piston engine rotary wing aircraft	80	E	MEA348	Perform scheduled line maintenance activities on piston engine rotary wing aircraft	80
MEA351A	Maintain airframe systems of basic light fixed wing aircraft	90	E	MEA351	Maintain airframe systems of basic light fixed wing aircraft	90
MEA352A	Maintain basic rotary wing aircraft systems	110	E	MEA352	Maintain basic rotary wing aircraft systems	110
MEA353A	Maintain basic light aircraft engines and propellers	70	E	MEA353	Maintain basic light aircraft engines and propellers	70
MEA354A	Maintain light aircraft pneumatic systems	70	E	MEA354	Maintain light aircraft pneumatic systems	70
MEA355A	Maintain light aircraft air cycle air conditioning systems	50	E	MEA355	Maintain light aircraft air cycle air conditioning systems	50
MEA356A	Maintain light piston engine aircraft pressurisation systems	70	E	MEA356	Maintain light piston engine aircraft pressurisation systems	70
MEA357A	Inspect, test and repair aircraft fabric surfaces	50	E	MEA357	Inspect, test and repair aircraft fabric surfaces	50
MEA358A	Re-cover aircraft fabric surfaces	50	E	MEA358	Re-cover aircraft fabric surfaces	50
MEA359A	Inspect and repair aircraft wooden structures	50	E	MEA359	Inspect and repair aircraft wooden structures	50
MEA360A	Maintain aircraft diesel engines	70	E	MEA360	Maintain aircraft diesel engines	70
MEA361A	Maintain aircraft two stroke petrol engines	70	E	MEA361	Maintain aircraft two stroke petrol engines	70
MEA362A	Maintain aircraft vapour cycle air conditioning systems	50	E	MEA362	Maintain aircraft vapour cycle air conditioning systems	50
MEA364A	Maintain and/or repair small aircraft mechanical components or parts	90	E	MEA364	Maintain and/or repair small aircraft mechanical components or parts	90
MEA365A	Assess structural repair/modification requirements and evaluate structural repairs and modifications	60	E	MEA365	Assess structural repair/modification requirements and evaluate structural repairs and modifications	60

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA366A	Perform borescope inspections	50	E	MEA366	Perform borescope inspections	50
MEA367A	Repair/modify aircraft composite structure using cold bonding	60	E	MEA367	Repair/modify aircraft composite structure using cold bonding	60
MEA368A	Shot peen aircraft components	40	E	MEA368	Shot peen aircraft components	40
MEA311D	Inspect and repair/modify aircraft structures	80	E	MEA369	Inspect and maintain structures and related components of non-pressurised small aircraft	55
MEA363B	Inspect, repair and maintain structures and related components of non-pressurised small aircraft	120	E	MEA369	Inspect and maintain structures and related components of non-pressurised small aircraft	55
MEA363B	Inspect, repair and maintain structures and related components of non-pressurised small aircraft	120	E	MEA370	Repair the structure of non-pressurised small aircraft	55
MEA311D	Inspect and repair/modify aircraft structures	80	E	MEA371	Perform major repairs and modifications to small aircraft metal structure	90
			-	MEA372	Perform mechanical elementary maintenance	55
MEA380A	Repair and/or overhaul aircraft hydraulic system components	110	E	MEA380	Repair and/or overhaul aircraft hydraulic system components	110
MEA381A	Repair and/or overhaul aircraft pneumatic system components	110	E	MEA381	Repair and/or overhaul aircraft pneumatic system components	110
MEA382A	Repair and/or overhaul aircraft fuel system components	70	E	MEA382	Repair and/or overhaul aircraft fuel system components	70
MEA383A	Repair and/or overhaul gas turbine engine air inlet and compressor components and/or modules	70	E	MEA383	Repair and/or overhaul gas turbine engine air inlet and compressor components and/or modules	70
MEA384A	Repair and/or overhaul gas turbine engine combustion section components and/or modules	70	E	MEA384	Repair and/or overhaul gas turbine engine combustion section components and/or modules	70
MEA385A	Repair and/or overhaul gas turbine engine turbine and exhaust section components	70	E	MEA385	Repair and/or overhaul gas turbine engine turbine and exhaust section components	70
MEA386A	Repair and/or overhaul gas turbine engine ancillary section components	70	E	MEA386	Repair and/or overhaul gas turbine engine ancillary section components	70
MEA387A	Test gas turbine engines and engine modules after overhaul or repair	70	E	MEA387	Test gas turbine engines and engine modules after overhaul or repair	70
MEA389A	Repair and/or overhaul propellers	110	E	MEA389	Repair and/or overhaul propellers	110

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA390A	Repair and/or overhaul rotary wing dynamic components	190	E	MEA390	Repair and/or overhaul rotary wing dynamic components	190
MEA391A	Repair and/or overhaul aircraft mechanical system components	130	E	MEA391	Repair and/or overhaul aircraft mechanical system components	130
MEA392A	Disassemble aircraft piston engines	35	E	MEA392	Disassemble aircraft piston engines	35
MEA393A	Repair and/or overhaul aircraft piston engine cylinder assembly components	35	E	MEA393	Repair and/or overhaul aircraft piston engine cylinder assembly components	35
MEA394A	Repair and/or overhaul aircraft piston engine crankcase assembly components	35	E	MEA394	Repair and/or overhaul aircraft piston engine crankcase assembly components	35
MEA395A	Reassemble aircraft piston engines	35	E	MEA395	Reassemble aircraft piston engines	35
MEA396A	Assemble aircraft piston engine quick engine change unit	25	E	MEA396	Assemble aircraft piston engine quick engine change unit	25
MEA397A	Test aircraft piston engines after repair or overhaul	35	E	MEA397	Test aircraft piston engines after repair or overhaul	35
MEA401C	Inspect aircraft structures	60	E	MEA401	Inspect aircraft structures	60
MEA405B	Repair/modify aircraft composite material structure/components	100	E	MEA405	Repair/modify aircraft composite material structure/components	100
MEA406B	Repair/modify aircraft non-primary structural sheetmetal components	60	E	MEA406	Repair/modify aircraft non-primary structural sheet metal components	60
MEA407B	Repair/modify aircraft non-primary structural non-metallic components	60	E	MEA407	Repair/modify aircraft non-primary structural non-metallic components	60
MEA410C	Maintain aircraft structure/components	80	E	MEA410	Maintain aircraft structure/components	80
MEA411A	Remove surface coatings from aircraft or aircraft components	40	E	MEA411	Remove surface coatings from aircraft or aircraft components	40
MEA412A	Pre-treat aluminium alloy surfaces	40	E	MEA412	Pre-treat aluminium alloy surfaces	40
MEA413A	Seal aircraft and aircraft component structural seams	40	E	MEA413	Seal aircraft and aircraft component structural seams	40
MEA414A	Remove light corrosion from aircraft	80	E	MEA414	Remove light corrosion from aircraft	80
MEA415A	Paint aircraft surfaces	60	E	MEA415	Paint aircraft surfaces	60
MEA416A	Apply aircraft identification markings, graphics and	60	E	MEA416	Apply aircraft identification markings, graphics and	60

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
	decals				decals	
MEA417A	Apply specialty coatings to aircraft	80	E	MEA417	Apply specialty coatings to aircraft	80
MEA418A	Perform basic repair of aircraft internal fittings during line maintenance	40	E	MEA418	Perform basic repair of aircraft internal fittings during line maintenance	40
MEA419A	Inspect and repair/modify aircraft cabin/cockpit non-primary structure components	50	E	MEA419	Inspect and repair/modify aircraft cabin/cockpit non-primary structure components	50
MEA420A	Fabricate basic structural components for aircraft	100	E	MEA420	Fabricate basic structural components for aircraft	100
MEA421A	Fabricate advanced structural components for aircraft	100	E	MEA421	Fabricate advanced structural components for aircraft	100
MEA422A	Repair/modify aircraft metal structure	80	E	MEA422	Repair/modify aircraft metal structure	80
MEA423A	Aircraft structure major disassembly and reassembly	80	E	MEA423	Aircraft structure major disassembly and reassembly	80
MEA424A	Evaluate aircraft non-destructive tests	80	E	MEA424	Evaluate aircraft non-destructive tests	80
MEA425A	Perform bolted composite skin repairs	25	E	MEA425	Perform bolted composite skin repairs	25
MEA430A	Gas weld aircraft components	40	E	MEA430	Gas weld aircraft components	40
MEA431A	Braze weld aircraft components	40	E	MEA431	Braze weld aircraft components	40
MEA432A	Weld aircraft components using the gas tungsten arc welding process	40	E	MEA432	Weld aircraft components using the gas tungsten arc welding process	40
MEA433A	Weld aircraft components using the gas metal arc welding process	40	E	MEA433	Weld aircraft components using the gas metal arc welding process	40
MEA434A	Weld aircraft components using the plasma arc welding process	40	E	MEA434	Weld aircraft components using the plasma arc welding process	40
MEA435A	Weld aircraft components using the manual metal arc welding process	40	E	MEA435	Weld aircraft components using the manual metal arc welding process	40
MEA501A	Maintain and fit anti-G suits	30	E	MEA501	Maintain and fit anti-G suits	30
MEA502A	Maintain and fit helmets	30	E	MEA502	Maintain and fit helmets	30
MEA503A	Maintain and fit immersion suits	30	E	MEA503	Maintain and fit immersion suits	30
MEA504A	Maintain and fit oxygen masks	30	E	MEA504	Maintain and fit oxygen masks	30

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA505A	Maintain and pack parachutes	30	E	MEA505	Maintain and pack parachutes	30
MEA507A	Maintain, pack and fit survival inflatable buoyancy vests	30	E	MEA507	Maintain, pack and fit survival inflatable buoyancy vests	30
MEA508A	Maintain, install and remove restraint systems	30	E	MEA508	Maintain, install and remove restraint systems	30
MEA509A	Manufacture, repair and alter aircraft related fabric components	30	E	MEA509	Manufacture, repair and alter aircraft related fabric components	30
MEA510A	Maintain seat and pod electrical and electronic systems	30	E	MEA510	Maintain seat and pod electrical and electronic systems	30
MEA511A	Operate and maintain sewing machines and overlockers	50	E	MEA511	Operate and maintain sewing machines and overlockers	50
			-	MEA512	Maintain general aviation recovery devices with ballistic parachute systems	55
MEA506A	Maintain and pack survival inflatable life rafts and escape slides	30	E	MEA513	Maintain and pack survival inflatable life rafts	35
MEA506A	Maintain and pack survival inflatable life rafts and escape slides	30	E	MEA514	Maintain and pack escape slides	35
MEA601A	Maintain aircraft egress systems	120	E	MEA601	Maintain aircraft egress systems	120
MEA602A	Remove and install aircraft stores management system components	60	E	MEA602	Remove and install aircraft stores management system components	60
MEA603A	Remove and install aircraft stores suspension systems and components	60	E	MEA603	Remove and install aircraft stores suspension system components	60
MEA604A	Inspect, test and troubleshoot aircraft stores management systems and components	60	E	MEA604	Inspect, test and troubleshoot aircraft stores management systems and components	60
MEA605A	Inspect, test and troubleshoot aircraft stores suspension systems and components	80	E	MEA605	Inspect, test and troubleshoot aircraft stores suspension systems and components	80
			-	MEA701	Produce aeronautical engineering related graphics	70
			-	MEA702	Produce avionics engineering related graphics	70
			-	MEA703	Apply aeronautical modelling for computer-aided engineering	70

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
			-	MEA704	Apply avionic modelling for computer-aided engineering	70
MEA349B	Apply basic scientific principles and techniques in aeronautical engineering situations	120	E	MEA705	Apply basic scientific principles and techniques in aeronautical engineering situations	110
MEA272B	Apply basic scientific principles and techniques in avionic engineering situations	80	E	MEA706	Apply basic scientific principles and techniques in avionic engineering situations	70
MEA350A	Select and test aeronautical engineering materials	80	E	MEA707	Select and test aeronautical engineering materials	70
MEA273A	Select and test avionic engineering materials	60	E	MEA708	Select and test avionic engineering materials	55
			-	MEA709	Apply aeronautical structure design techniques	70
			-	MEA710	Apply aeronautical system design techniques	70
			-	MEA711	Apply avionic analogue design techniques	70
			-	MEA712	Apply avionic digital design techniques	70
			-	MEA713	Integrate aeronautical fundamentals into an engineering task	70
			-	MEA714	Integrate avionic fundamentals into an engineering task	70
			-	MEA715	Evaluate aeroplane flight control systems	70
			-	MEA716	Evaluate avionic analogue systems	70
			-	MEA717	Evaluate avionic digital systems	70
			-	MEA718	Evaluate rotorcraft flight control systems	70
			-	MEA719	Evaluate aircraft electrical systems	70
			-	MEA720	Evaluate aircraft gas turbine engine power plants	70
			-	MEA721	Evaluate aircraft hydro-mechanical systems	70
			-	MEA722	Evaluate aircraft piston engine power plants	70
			-	MEA723	Evaluate aircraft pneumatic systems	70

MEA11 Current Unit				MEA Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
			-	MEA724	Evaluate aircraft structure	70
			-	MEA725	Apply advanced scientific principles and techniques in avionic engineering situations	55
			-	MEA726	Apply aircraft electrical system design techniques	55
			-	MEA727	Apply calculus in avionic engineering situations	55
			-	MEA729	Apply configuration management procedures in airworthiness engineering management	70
			-	MEA730	Apply systems engineering procedures to airworthiness engineering design project management	70

Apprenticeships

The following table provides a summary of the qualifications in the MEA Aeroskills Training Package and the accredited apprenticeship courses they will replace.

MEA11 Current Qualification					MEA Replacement Qualification		
National Code	National Title	Apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA40611	Certificate IV in Aeroskills (Avionics)	AP00220: AIRCRAFT MAINTENANCE ENGINEER - AVIONICS	1300	E	MEA40615	Certificate IV in Aeroskills (Avionics)	1300
MEA40711	Certificate IV in Aeroskills (Mechanical)	AP00380: AIRCRAFT MAINTENANCE ENGINEER - MECHANICAL	1300	E	MEA40715	Certificate IV in Aeroskills (Mechanical)	1300
MEA41311	Certificate IV in Aeroskills (Structures)	AP00390: AIRCRAFT MAINTENANCE ENGINEER - STRUCTURES	1120	E	MEA41315	Certificate IV in Aeroskills (Structures)	1120

Traineeships

The following table provides a summary of the qualifications in the MEA Aeroskills Training Package and the accredited traineeship courses they will replace.

MEA11 Current Qualification					MEA Replacement Qualification		
National Code	National Title	Traineeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
MEA50111	Diploma of Aeroskills (Avionics)	TR08770: AEROSKILLS ENGINEER - AVIONICS LEVEL 5	1965	E	MEA50115	Diploma of Aeroskills (Avionics)	2020
MEA50211	Diploma of Aeroskills (Mechanical)	TR08780: AEROSKILLS ENGINEER - MECHANICAL LEVEL 5	2430	E	MEA50215	Diploma of Aeroskills (Mechanical)	2475