

2018-19 Case for Change

Aerospace Industry Reference Committee (IRC)

MEA Aeroskills Training Package

Contact details: Russell Burgess, IRC Chair

Date submitted to Department of Education and Training: May 2018

Alignment of VET qualification standards to CASA licensing regulations

Description: Aircraft maintenance licensing training is regulated by the Civil Aviation Safety Authority (CASA), under Civil Aviation Safety Regulations (CASR) Part 147, as well as by ASQA (the Australian Skills Quality Authority) which operate under different frameworks.

The lack of harmonisation with the International Aviation Safety Assessment (IASA) standards is costing the industry money and limits opportunities. The biggest issue is the current rigidity of the VET system to absorb the Civil Aviation Safety Authority (CASA)/European Aviation Safety Agency (EASA) regulations. The main difficulty is in trying to match the theoretical regulatory outcomes of CASA/EASA to the current vocational education competency-based model.

This project will investigate and develop a framework for qualifications for LAMEs that accommodates the CASA/EASA regulations and VET standards.

Alignment of VET qualification standards to CASA licensing regulations

Rationale: Australian Government policy requires that licensing requirements be included in Australian Qualifications Framework (AQF) Training Packages. Accordingly, CASA licensing requirements are met through the MEA Aeroskills Training Package. To achieve this, for the A Licence (A1, A2, A3 and A4), the Certificate II in Aircraft Line Maintenance has been developed and for B1 and B2 Licences two Diploma qualifications have been developed and all are included in the MEA Aeroskills Training Package, as follows:

- MEA 20515 Certificate II in Aircraft Line Maintenance
- MEA50115 Diploma of Aeroskills (Avionics) for the grant of a B2 Licence
- MEA50215 Diploma of Aeroskills (Mechanical) for the grant of a B1 Licence in sub-categories B1.1, B1.2, 1.3 and B1.4⁴⁴
- a range of elective units is also provided to meet the requirements of additional ratings related to small aircraft maintenance with units required for each additional rating listed in Skill Sets.

In addition to the application of AQF procedures associated with these qualifications, CASA has additional requirements that have to be met in order for them to maintain alignment with the EASA for other than small aircraft licensing, and to meet international obligations specified by the International Civil Aviation Organisation (ICAO).

Attempts have been made to accommodate these two different frameworks into the current licence qualifications, adding much complexity, inconsistency with current VET standards and potential for interpretation while at the same time lacking the rigour required to provide assurance to the aviation industry that licence holders will have the necessary skills and knowledge to undertake the work required to ensure safety.

The MEA Aeroskills Training Package Companion Volume provides an interface between the AQF qualifications and the additional CASA requirements that have to be met before a licence can be granted by:

- referencing the CASA requirements in addition to the AQF for RTOs to be able to deliver training leading to the grant of a licence
- providing an alignment between the CASA licensing syllabus and the MEA Aeroskills Training Package units of competency
- providing additional explanation of knowledge requirements for units of competency that are aligned with the CASA licensing requirements
- highlighting the more rigorous theory examination pass mark requirements specified by CASA for theory examinations for units leading to the grant of a licence.

Training leading to Aeroskills qualifications can be delivered by any RTO that has the Aeroskills Training Package on its Certificate of Registration. However, if the training is to lead to a licensing outcome, the RTO delivering the training must also be a CASR Part 147 Maintenance Training Organisation (MTO). The requirements that must be met to become a MTO can be found in CASR Part 147 Maintenance Training Organisations and the following associated publications:

- CASR Part 147 Manual of Standards (MOS)
- Acceptable Means of Compliance (AMC) and Guidance Material (GM) for CASR Part 147 Maintenance Training Organisations.

Aircraft maintenance licensing training is regulated by CASA (under CASR Part 147) as well as by ASQA (the Australian Skills Quality Authority) which operate under different frameworks. CASA operates under a knowledge and experience framework and ASQA operates under a competency framework.

44 Note the Diploma of Aeroskills (Mechanical) is the subject of a current activity order to reinstate units of competency leading to B1.2 and B1.4 licences.

Alignment of VET qualification standards to CASA licensing regulations

Rationale:	<p>The CASA Basic examination sets out 17 knowledge modules detailed in a knowledge syllabus and three levels of knowledge linked to different licence categories. Training package standards do not specify syllabus or assessment standards but rather knowledge and performance evidence.</p> <p>Attempts have been made to accommodate these different frameworks into the current licence qualifications and linked qualifications resulting in the following:</p> <ul style="list-style-type: none"> • the packaging rules are rigid (make little use of importing units from other packages) and highly complex to accommodate licensing and different ratings • lower level qualifications are nested in higher level qualifications so that not only do the licensed qualifications need to be reviewed but also all nested qualifications such as the MEA40615 Certificate IV in Aeroskills (Avionics) and MEA40715 Certificate IV in Aeroskills (Mechanical) • extensive use of pre-requisites which link lower-level qualifications to higher-level qualifications • a lack of alignment with the Australian Qualification Framework • extensive referencing to CASA requirements • mutual recognition means the recognition and acceptance by an RTO of Australian Qualifications Framework (AQF) qualifications and Statements of Attainment issued by other RTOs enabling individuals to receive national recognition of their achievements which is not consistent with CASA's requirement that only Part 147 organisations (MTOs) deliver competencies for licensing purposes • CASA Part 66 Manual of Standards (MOS) standardises examinations and sets the pass mark for category modules at 75%, yet 'mutual recognition' requires that RTOs/MTOs recognise Certificates of Attainment from non-Part 147 organisations (which can have a pass mark of 50%) • the Standards for Training Packages detail the Assessment Requirements for evidence and required conditions of assessment to include the performance evidence, the knowledge evidence and the assessment conditions for each unit of competency; it does not detail curriculum which is required by CASA. <p>From July 2020, CASA will no longer administer the licence examinations or set a central bank of questions, which will potentially set the scene for RTOs to set and use a wide variation in examinations and interpretation of assessment. CASA will issue the licence on the recommendation of an approved Part 147 organisation, rather than play a role in the assessment of competence, theoretical knowledge, or experience. Additionally, CASA will no longer use the Schedule of Experience to scrutinise a prospective licensee's records of their experience; this will fall to the RTO/MTO that may interpret competence for experience.</p> <p>This project will investigate vocational education frameworks used by other licence occupations and consult widely with key stakeholder groups to develop a framework that accommodates the CASA requirements, the AQF and the Training Package standards. Once the framework is approved, the licence qualifications will be developed using this new framework.</p> <p>Current industry feedback indicates that qualifications are needed to cover a range of specialist job roles in the sector such as rotary wing, fixed wing and turbine, which are currently not evident in the packaging rules of the Training Package. Core units need to be expanded and each specialist group needs to align to a qualification descriptor. This work aims to strengthen the vocational outcomes for each qualification and enhance portability.</p> <p>Currently the CASA Basic Examinations (CASA Basics) and completion of the Schedule of Experience (SOE) provide an alternate means of securing licences but this pathway will only be available until 3 July 2020. Following this date, the MEA Aeroskills Training Package qualifications will provide the only means in Australia to gain a licence to maintain aircraft.</p>
------------	---

Alignment of VET qualification standards to CASA licensing regulations

Rationale: The licensed qualifications are:

MEA20515 Certificate II in Aircraft Line Maintenance

MEA50215 Diploma of Aeroskills (Mechanical) (Release 2) B1 Licence in sub-categories B1.1 and B1.3

MEA50115 Diploma of Aeroskills (Avionics) (Release 1) B2 Licence

A total MEA Aeroskills Training Package review is necessary to identify clear vocational licensed and unlicensed outcomes that are aligned with the skill requirements of the AQF levels by addressing the following issues:

- these licensed qualifications include core units that are utilised as core units across all the other MEA Aeroskills qualifications
- these two Diplomas included nested Certificate IVs and are nested in the Advanced Diplomas.

Without a new and radical approach to the entire Aeroskills Training Package to ensure alignment with the CASA/EASA standards and clear vocational outcomes:

- the current disenfranchisement of the industry will grow as it meets its needs using alternative approaches, including sourcing workers from overseas
- student enrolments and completions will decline
- Australian industry will not be well positioned to capitalise on global growth forecasts
- Australia risks no longer being well regarded globally in the provision of aircraft maintenance engineering services.

Without this review, the current industry expects that the inadequate and complex training standards will increasingly impact on the Australian aviation industry.

Alignment of VET qualification standards to CASA licensing regulations

Ministers' Priorities Addressed:	<p>This case for change addresses the following Ministers' Priorities:</p> <p>Obsolete qualifications removed from the system</p> <p>This proposed work will provide a complete review of all MEA Aeroskills qualifications, skills sets and units of competency which will result in alignment with vocational outcomes, streamlining and rationalising of some training package products. Qualifications with low enrolments will be reviewed for options to remove, merge or strengthen packaging.</p> <p>More information about industry's expectations of training delivery is available to training providers to improve their delivery and to consumers to enable more informed choices</p> <p>The MEA Aeroskills qualifications include variations in the number of units required depending upon the stream being chosen and are often restrictive and complex. This approach will be reviewed to simplify the packaging rules and ensure they are consistent with the intention of the standards to specify unambiguously the total number of units of competency required to achieve the qualification.</p> <p>The Companion Volume will be updated to ensure that RTOs can better navigate the package and promote career pathways by engaging all sectors including regionally based businesses.</p> <p>The training system better supports individuals to move more easily between related occupations</p> <p>CASA licensing requirements, while very specific, also provide for sharing of many common units of competency and are aligned with international standards. The review will enable students who undertake a licensed pathway to find it easier to transition from one sub-category to another within the aircraft maintenance industry and from general aviation to commercial aviation. This should also reduce the cost of training for thin markets for RTOs/MTOs and students.</p> <p>The current qualifications currently make little use of units from other training packages. This will be reviewed and, wherever possible, units from other industries will be utilised to enable individuals to more easily move between related occupations, e.g. Heavy-duty vehicle mechanic and aircraft maintenance engineering.</p> <p>Improved efficiency of the training system through units that can be owned and used by multiple industry sectors</p> <p>Listed units will need to be transitioned to comply to the current training package standards as part of this Case for Change. The current extensive use of pre-requisite units will be reviewed to ensure they are necessary. Removal of pre-requisites will thereby increase the ability for other industry sectors to use MEA Aeroskills units. It must be noted, use by other industries is likely to be limited given the specialised nature of regulatory requirements associated with the MEA Aeroskills units of competency.</p> <p>Foster greater recognition of skill sets</p> <p>There are 213 skill sets used extensively for employment of individuals with Certificate III or Certificate IV qualifications in an allied trade in aircraft component maintenance workshops on electrical component repair and overhaul and to differentiate licence subcategories.</p>
----------------------------------	---

Alignment of VET qualification standards to CASA licensing regulations

Consultation Plan: IBSA Manufacturing Training Development Projects follow the Training Package Development and Endorsement Process Policy and use a five-phase methodology. The IBSA Aerospace Industry Manager will coordinate the project and keep the IRC informed on progress.

Phase 1 – Initial research and analysis

Establishment of a Technical Advisory Committee (TAC) to validate the project scope and plan, contribute to the investigation and interrogation of data and assist in determining industry needs and job role functional analysis. The IRC will appoint a Technical Advisory Committee that will have current skills and knowledge across a broad range including the aviation industry, industry aircraft maintenance engineers, industry and member associations and regulatory authorities to inform this work.

Proposed membership will include representatives from:

- Government Regulators (CASA)/Defence Aviation Safety Authority (DASA)
- One or more employee representatives
- One or more employers of various sizes and employer representatives
- One or more RTOs/MTOs
- One or more technical experts.

Detailed mapping of all relevant units and qualifications will be undertaken.

Extensive consultation will take place to develop a new licensed occupation framework that accommodates CASA requirements and the VET standards. This will be developed into a Discussion Paper with consultation planned in each jurisdiction to understand the challenges, test alternate frameworks, identify concerns to be addressed and understand any issues including implementation matters.

The proposed framework will be developed under the direction of the TAC and then reviewed and approved by the IRC. Further formal approval will be sought from CASA to ensure it meets their requirements.

Once approved the proposed framework will be open for feedback from the broader stakeholder community and that will be considered and incorporated with IRC approval prior to adoption.

Phase 2 – Draft 1 and public consultation

Develop first draft of training package components for feedback from the TAC and then the broader aerospace industry and RTOs.

Phase 3 – Draft 2 and public consultation

Respond to feedback and develop second draft of training package components. Feedback to be sought from the broader aerospace industry and RTOs.

Phase 4 – Approval process

Adjust training package components in response to further feedback and seek approval from respective committees, namely the TAC and IRC and endorsement from state training authorities.

Phase 5 – Submission to Department

Submit to the Department of Education and Training for AISC approval.

Alignment of VET qualification standards to CASA licensing regulations

Consultation Plan:	<p>Consultation Plan</p> <p>IBSA will create a project web page to provide project updates, gather feedback from stakeholders and validate training package components.</p> <p>National consultations are proposed with:</p> <ul style="list-style-type: none"> • general and commercial aviation employers operating in regions and metropolitan areas to identify industry and job requirements, and trends and work opportunities • relevant associations including the Civil Aviation Safety Authority regarding licensing regulations and knowledge requirements • industry associations including Aviation Maintenance Repair Overhaul Business Association (AMROBA), Australian Licensed Aircraft Engineers Association • industry training boards • unions • RTOs with these qualifications on scope and recent or current students if accessible to gain feedback on the actual qualifications and employment outcomes • Australian Industry Standards (AIS), to explore how the 'Maritime and AVI' training packages address licence requirements • State Training Authorities to ensure all jurisdictions are engaged.
--------------------	--

Scope of Project

Timing	<p>Estimated Project Duration: 22 months</p> <p>If approved, the project would be undertaken in stages.</p> <p>Anticipated Start Date: August 2018</p> <p>Anticipated Completion Date: Case for Endorsement to be submitted to the Department May 2020 (these dates will ensure a seamless transition from the CASA Basics exam pathway which finishes in July 2020.)</p>
--------	---

Training Package	<p>Training Package to be developed/revised:</p> <p>MEA Aeroskills Training Package</p>
------------------	--

Alignment of VET qualification standards to CASA licensing regulations

Qualifications	<p>A total of 25 qualifications to be redeveloped as part of this project.</p> <p>The first phase of this work will determine if any new qualifications will be required.</p> <p>25 existing qualifications to be revised:</p> <ul style="list-style-type: none"> • MEA20415 Certificate II in Aeroskills • MEA20515 Certificate II in Aircraft Line Maintenance • MEA20615 Certificate II in Aircraft Surface Finishing • MEA30115 Certificate III in Aircraft Surface Finishing • MEA30215 Certificate III in Aeroskills (Mechatronics) • MEA30315 Certificate III in Aircraft Life Support and Furnishing • MEA40615 Certificate IV in Aeroskills (Avionics) • MEA40715 Certificate IV in Aeroskills (Mechanical) • MEA40915 Certificate IV in Aircraft Surface Finishing • MEA41015 Certificate IV in Aeroskills (Mechatronics) • MEA41115 Certificate IV in Aircraft Life Support and Furnishing • MEA41215 Certificate IV in Aeroskills (Armament) • MEA41315 Certificate IV in Aeroskills (Structures) • MEA50115 Diploma of Aeroskills (Avionics) • MEA50215 Diploma of Aeroskills (Mechanical) • MEA50315 Diploma of Aviation Maintenance Management (Avionics) • MEA50415 Diploma of Aviation Maintenance Management (Mechanical) • MEA50515 Diploma of Aeroskills (Non-Destructive Testing) • MEA50615 Diploma of Aeronautical Engineering • MEA50715 Diploma of Avionic Engineering • MEA60115 Advanced Diploma of Aviation Maintenance Management (Avionics) • MEA60215 Advanced Diploma of Aviation Maintenance Management (Mechanical) • MEA60315 Advanced Diploma of Aviation Non-Destructive Testing • MEA60415 Advanced Diploma of Aeronautical Engineering • MEA60515 Advanced Diploma of Avionic Engineering
----------------	--

Alignment of VET qualification standards to CASA licensing regulations

Skill Sets	<p>The first phase of this work will determine if any new skill sets are required.</p> <p>A total of 213 existing Skill Sets to be reviewed and redeveloped:</p> <ul style="list-style-type: none"> • MEASS00245 AMW001 Electrical component repair/overhaul • MEASS00246 AMW002 Mechanical and electro-mechanical instrument component repair/overhaul • MEASS00247 AMW003 Aircraft display, control and distribution system component repair/overhaul • MEASS00248 AMW004 Oxygen system component repair/overhaul • MEASS00249 AMW005 Aircraft radio frequency communication and navigation system component repair/overhaul • MEASS00250 AMW006 Aircraft pulse system component repair/overhaul • MEASS00251 AMW007 Aircraft audio and visual system and reproducer repair/overhaul • MEASS00252 AMW008 Hydraulic system component repair/overhaul • MEASS00253 AMW009 Electro-hydraulic component repair/overhaul • MEASS00254 AMW010 Pneumatic system component repair/overhaul • MEASS00255 AMW011 Electro-pneumatic component repair/overhaul • MEASS00256 AMW012 Fuel system component repair/overhaul • MEASS00257 AMW013 Gas turbine engine air inlet and compressor module/component repair/overhaul • MEASS00258 AMW014 Gas turbine engine combustion section module/component repair/overhaul • MEASS00259 AMW015 Gas turbine engine turbine and exhaust module/component repair/overhaul • MEASS00260 AMW016 Gas turbine engine ancillary section module/component repair/overhaul • MEASS00261 AMW017 Piston engine disassembly for repair/overhaul • MEASS00262 AMW018 Repair and/or overhaul aircraft piston engine cylinder assembly components • MEASS00263 AMW019 Repair and/or overhaul aircraft piston engine crankcase assembly components • MEASS00264 AMW020 Reassemble aircraft piston engines • MEASS00265 AMW021 Assemble aircraft piston engine quick engine change unit • MEASS00266 AMW022 Test aircraft piston engines after repair or overhaul • MEASS00267 AMW023 Propeller repair/overhaul • MEASS00268 AMW024 Rotary wing dynamic component repair/overhaul • MEASS00269 AMW025 Mechanical system component repair/overhaul • MEASS00270 AMW026 Composite structure maintenance • MEASS00271 LME001 Electrical B1.1 Licence Exclusions E1 and E4 Removal • MEASS00272 LME002 Electrical B1.1 Licence Exclusions E1 and E4 Removal (small aircraft with gas turbine engine) • MEASS00273 LME003 Electrical B1.2, B1.3 or B1.4 Licence Exclusions E1 and E4 Removal • MEASS00274 LME004 Electrical B1.2 or B1.4 Licence Exclusions E1 and E4 Removal (small aircraft/helicopters) • MEASS00275 LME005 Electrical B2 Licence Exclusions E1 and E4 Removal
------------	--

Alignment of VET qualification standards to CASA licensing regulations

Skill Sets	<ul style="list-style-type: none"> • MEASS00276 LME006 Electrical B2 Licence Exclusions E1 and E4 Removal (small aircraft or helicopters) • MEASS00277 LME007 Airframe B1.1 Licence Exclusion E2 Removal • MEASS00278 LME008 Airframe B1.1 Licence Exclusion E2 Removal (small aircraft with gas turbine engine) • MEASS00279 LME009 Airframe B1.2 Licence Exclusion E2 Removal • MEASS00280 LME010 Airframe B1.2 Licence Exclusion E2 Removal (working on small aircraft) • MEASS00281 LME011 Airframe B1.3 and B1.4 Licence Exclusion E2 Removal • MEASS00282 LME012 Airframe B1.4 Licence Exclusion E2 Removal (working on basic helicopters) • MEASS00283 LME013 Power Plant B1.1 Licence Exclusion E3 Removal • MEASS00284 LME014 Power Plant B1.2 Licence Exclusion E3 Removal • MEASS00285 LME015 Power Plant B1.2 Licence Exclusion E3 Removal (working on small aircraft) • MEASS00286 LME016 Power Plant B1.3 Licence Exclusion E3 Removal • MEASS00287 LME017 Power Plant B1.4 Licence Exclusion E3 Removal • MEASS00288 LME018 Power Plant B1.4 Licence Exclusion E3 Removal (working on basic helicopters) • MEASS00289 LME019 Instrument B1 Licence Exclusions E5 and E7 Removal • MEASS00290 LME020 Instrument B1.2 and B1.4 Licence Exclusions E5 and E7 Removal (small aircraft/helicopters) • MEASS00291 LME021 Instrument B2 Licence Exclusions E5 and E7 Removal • MEASS00292 LME022 Instrument and Radio B1 Licence Exclusion E6 Removal • MEASS00293 LME023 Instrument and Radio B1.2 and 1.4 Licence Exclusion E6 Removal (small aircraft/helicopters) • MEASS00294 LME024 Instrument and Radio B2 Licence Exclusion E6 Removal • MEASS00295 LME025 Instrument and Radio B2 Licence Exclusion E6 Removal (non-type rated aircraft/helicopters) • MEASS00296 LME026 Radio B1 Licence Exclusion E8 Removal • MEASS00297 LME027 Radio B1.2 and B1.4 Licence Exclusion E8 Removal (working on small aircraft/helicopters) • MEASS00298 LME028 Radio B2 Licence Exclusion E8 Removal • MEASS00299 LME029 Radio B2 Licence Exclusion E8 Removal (non-type rated aircraft and helicopters) • MEASS00300 LME030 Airframe B1 Licence Exclusion E9 and E43 Removal • MEASS00301 LME031 Airframe B1 Licence Exclusion E10 Removal • MEASS00302 LME032 Radio B2 Licence Exclusion E11 Removal • MEASS00303 LME033 Airframe/Engine B1.1 and B1.2 Licence Exclusion E12 Removal • MEASS00304 LME034 Airframe B1 Licence Exclusion E13 Removal • MEASS00305 LME035 Airframe B1 Licence Exclusion E14 Removal • MEASS00306 LME036 Airframe B1.1 and B1.3 Licence Exclusion E15 Removal • MEASS00307 LME037 Airframe B1.1 Licence Exclusion E15 Removal • MEASS00308 LME038 Airframe B1.1 Licence Exclusion E16 Removal
------------	--

Alignment of VET qualification standards to CASA licensing regulations

Skill Sets	<ul style="list-style-type: none"> • MEASS00309 LME039 Airframe B1.2 Licence Exclusion E16 Removal • MEASS00310 LME040 Radio B2 Licence Exclusion E18 Removal • MEASS00311 LME041 Radio B2 Licence Exclusion E19 Removal • MEASS00312 LME042 Radio B2 Licence Exclusion E20 Removal • MEASS00313 LME043 Radio B2 Licence Exclusion E21 Removal • MEASS00314 LME044 Radio B2 Licence Exclusion E22 Removal • MEASS00315 LME045 Radio B2 Licence Exclusion E23 Removal • MEASS00316 LME046 Radio B2 Licence Exclusion E24 Removal • MEASS00317 LME047 Radio B2 Licence Exclusion E25 Removal • MEASS00318 LME048 Radio B2 Licence Exclusion E26 Removal • MEASS00319 LME049 Instrument B2 Licence Exclusion E27 Removal • MEASS00320 LME050 Instrument B2 Licence Exclusion E28 Removal • MEASS00321 LME051 Instrument B2 Licence Exclusion E29 Removal • MEASS00322 LME052 Instrument B2 Licence Exclusion E30 Removal • MEASS00323 LME053 Instrument B2 Licence Exclusion E31 Removal • MEASS00324 LME054 Electrical B2 Licence Exclusion E32 Removal • MEASS00325 LME055 Engine B1.2 or B1.4 Licence Exclusions E33 and E38 Removal • MEASS00326 LME056 Electrical/Instrument/Radio B2 Licence Exclusion E34 Removal • MEASS00327 LME057 Airframe B1.1 or B1.2 Licence Exclusion E35 Removal • MEASS00328 LME058 Engine B1.2 or B1.4 Licence Exclusions E36 and E37 Removal • MEASS00329 LME059 Engine B1.2 or B1.4 Licence Exclusions E36 and E37 Removal (small aircraft/helicopters) • MEASS00330 LME060 Airframe B1.1 or B1.3 Licence Exclusions E39 Removal • MEASS00331 LME061 Airframe B1.2 or B1.4 Licence Exclusion E39 Removal (small aircraft/helicopters) • MEASS00332 LME062 Airframe B1 Licence Exclusion E40 Removal • MEASS00333 LME063 Airframe B1 Licence Exclusion E41 Removal • MEASS00334 LME064 Airframe B1 Licence Exclusion E42 Removal • MEASS00335 LME065 Electrical B1 Licence Exclusion E44 Removal • MEASS00336 LME066 Units of competency for A1 licence if Certificate IV in Aeroskills (Mechanical) is held • MEASS00337 LME067 Units of competency for A2 licence if Certificate IV in Aeroskills (Mechanical) is held • MEASS00338 LME068 Units of competency for A3 licence if Certificate IV in Aeroskills (Mechanical) is held • MEASS00339 LME069 Units of competency for A4 licence if Certificate IV in Aeroskills (Mechanical) is held • MEASS00340 LME070 Units of competency for A1 licence if Certificate IV in Aeroskills (Avionics) is held
------------	--

Alignment of VET qualification standards to CASA licensing regulations

Skill Sets	<ul style="list-style-type: none"> • MEASS00341 LME071 Units of competency for A2 licence if Certificate IV in Aeroskills (Avionics) is held • MEASS00342 LME072 Units of competency for A3 licence if Certificate IV in Aeroskills (Avionics) is held • MEASS00343 LME073 Units of competency for A4 licence if Certificate IV in Aeroskills (Avionics) is held • MEASS00344 LME074 Units of competency for A1 licence if a B2 licence is held • MEASS00345 LME075 Units of competency for A2 licence if a B2 licence is held • MEASS00346 LME076 Units of competency for A3 licence if a B2 licence is held • MEASS00347 LME077 Units of competency for A4 licence if a B2 licence is held • MEASS00348 MTA001 Aircraft egress system maintenance • MEASS00349 MTA002 In-flight entertainment system maintenance • MEASS00350 MTA003 Borescope inspection approval • MEASS00351 MTA004 Aircraft composite structure repair/modification using hot and cold bonding • MEASS00352 MTA005 Aircraft composite structure repair/modification using cold bonding only • MEASS00353 MTA006 Aircraft welding using the gas welding process – aluminium alloys • MEASS00354 MTA007 Aircraft welding using the gas welding process – magnesium alloys • MEASS00355 MTA008 Aircraft welding using the gas welding process – carbon and low alloy steels • MEASS00356 MTA009 Aircraft welding using the gas welding process – corrosion and heat resisting steels • MEASS00357 MTA010 Aircraft welding using the gas welding process – nickel alloys • MEASS00358 MTA011 Aircraft welding using the gas welding process – copper based alloys • MEASS00359 MTA012 Aircraft welding using the gas welding process – titanium alloys • MEASS00360 MTA013 Aircraft welding using the braze welding process - aluminium alloys • MEASS00361 MTA014 Aircraft welding using the braze welding process - magnesium alloys • MEASS00362 MTA015 Aircraft welding using the braze welding process - carbon and low alloy steels • MEASS00363 MTA016 Aircraft welding using the braze welding process - corrosion and heat resisting steels • MEASS00364 MTA017 Aircraft welding using the braze welding process - nickel alloys • MEASS00365 MTA018 Aircraft welding using the braze welding process - copper based alloys • MEASS00366 MTA019 Aircraft welding using the braze welding process - titanium alloys • MEASS00367 MTA020 Aircraft welding using the gas metal arc welding process - aluminium alloys • MEASS00368 MTA021 Aircraft welding using the gas metal arc welding process - magnesium alloys • MEASS00369 MTA022 Aircraft welding using the gas metal arc welding process - carbon and low alloy steels • MEASS00370 MTA023 Aircraft welding using the gas metal arc welding process - corrosion and heat resisting steel • MEASS00371 MTA024 Aircraft welding using the gas metal arc welding process - nickel alloys • MEASS00372 MTA025 Aircraft welding using the gas metal arc welding process - copper based alloys • MEASS00373 MTA026 Aircraft welding using the gas metal arc welding process - titanium alloys
------------	--

Alignment of VET qualification standards to CASA licensing regulations

Skill Sets	<ul style="list-style-type: none"> • MEASS00374 MTA027 Aircraft welding using the gas tungsten arc welding process - aluminium alloys • MEASS00375 MTA028 Aircraft welding using the gas tungsten arc welding process - magnesium alloys • MEASS00376 MTA029 Aircraft welding using the gas tungsten arc welding process - carbon and low alloy steels • MEASS00377 MTA030 Aircraft welding using gas tungsten arc welding process - corrosion and heat resisting steel • MEASS00378 MTA031 Aircraft welding using the gas tungsten arc welding process - nickel alloys • MEASS00379 MTA032 Aircraft welding using the plasma arc welding process - aluminium alloys • MEASS00380 MTA033 Aircraft welding using the plasma arc welding process - magnesium alloys • MEASS00381 MTA034 Aircraft welding using the plasma arc welding process - carbon and low alloy steels • MEASS00382 MTA035 Aircraft welding using the plasma arc welding process - corrosion and heat resisting steels • MEASS00383 MTA036 Aircraft welding using the plasma arc welding process - nickel alloys • MEASS00384 MTA037 Aircraft welding using the plasma arc welding process - copper based alloys • MEASS00385 MTA038 Aircraft welding using the plasma arc welding process - titanium alloys • MEASS00386 MTA039 Aircraft welding using the manual metal arc welding process - aluminium alloys • MEASS00387 MTA040 Aircraft welding using the manual metal arc welding process - magnesium alloys • MEASS00388 MTA041 Aircraft welding using the manual metal arc welding process - carbon and low alloy steels • MEASS00389 MTA042 Aircraft welding using manual metal arc welding process - corrosion and heat resisting steels • MEASS00390 MTA043 Aircraft welding using the manual metal arc welding process - nickel alloys • MEASS00391 MTA044 Aircraft welding using the manual metal arc welding process - copper based alloys • MEASS00392 MTA045 Aircraft welding using the manual metal arc welding process - titanium alloys • MEASS00393 MTA046 Liquid penetrant inspection approval for aerospace • MEASS00394 MTA047 Magnetic particle inspection approval for aerospace • MEASS00395 MTA048 Eddy current inspection approval for aerospace • MEASS00396 MTA049 Ultrasonic inspection approval for aerospace • MEASS00397 MTA050 Radiographic inspection approval for aerospace • MEASS00398 MTA051 Basic visual liquid dye penetrant inspection approval for aerospace • MEASS00399 MTA052 Basic magnetic particle inspection approval for aerospace • MEASS00400 MTA053 Basic eddy current inspection approval for aerospace • MEASS00401 MTA054 Ultrasonic thickness testing inspection approval for aerospace • MEASS00402 MTA055 Basic radiographic inspection approval for aerospace • MEASS00403 MTA056 Electroplate aeronautical product component parts • MEASS00404 MTA057 Produce anodised film on aluminium alloy components • MEASS00405 MTA058 Metal spray aeronautical product component parts • MEASS00406 MTA059 Machine aeronautical product component parts (general)
------------	---

Alignment of VET qualification standards to CASA licensing regulations

Skill Sets	<ul style="list-style-type: none"> • MEASS00407 MTA060 Grind aeronautical product component parts • MEASS00408 MTA061 Precision jig boring of aeronautical product component parts • MEASS00409 MTA062 Complex milling of aeronautical product component parts • MEASS00410 MTA063 Machine aeronautical product component parts using horizontal and/or vertical boring machines • MEASS00411 MTA064 Machine aeronautical product component parts using NC/CNC machines • MEASS00412 MTA065 Machine aeronautical product component parts using NC/CNC machining centres • MEASS00413 MTA066 Machine plastic aeronautical product component parts • MEASS00414 MTA067 Aeronautical product component parts metal spinning lathe operations • MEASS00415 MTA068 Aircraft tyre retreading (basic) • MEASS00416 MTA069 Aircraft tyre retreading (advanced) • MEASS00417 SAL001 B1 Small aircraft elementary maintenance • MEASS00418 SAL002 Mechanical/Avionic - B1 and B2 Electrical systems multi-generator - Rating 2 • MEASS00419 SAL003 Mechanical B1.2 Wooden structures Rating 3 • MEASS00420 SAL004 Mechanical B1.2 Fabric surfaces Rating 4 • MEASS00421 SAL005 Mechanical B1 Hydraulic systems Rating 5 • MEASS00422 SAL006 Mechanical B1 Vapour cycle air conditioning systems Rating 6A • MEASS00423 SAL007 Mechanical B1.1 and B1.3 Air cycle air conditioning systems Rating 6B • MEASS00424 SAL008 Mechanical/Avionics B1 and B2 Oxygen systems Rating 8 • MEASS00425 SAL009 Mechanical B1.1 and B1.2 Pressurisation and pneumatic systems Rating 10 • MEASS00426 SAL010 Mechanical B1.3 and B1.4 Helicopter powered flight control systems Rating 11 • MEASS00427 SAL011 Mechanical B1 Boosted induction systems Rating S • MEASS00428 SAL012 Mechanical B1.2 Constant speed and variable pitch propeller Rating V • MEASS00429 SAL013 Avionics B2 Electrical 1 Rating • MEASS00430 SAL014 Avionics B2 Instrument 1 Rating • MEASS00431 SAL015 Avionics B2 Radio 1 Rating • MEASS00432 SAL016 Avionics B2 Autopilot and flight control systems Aeroplane Rating 12 • MEASS00433 SAL017 Avionics B2 Autopilot and flight control systems Helicopter Rating 13 • MEASS00434 SAL018 Avionics B2 Glass cockpit Rating 14 • MEASS00435 SAL019 Avionics B2 Navigation systems Rating 15 • MEASS00436 SAL020 Avionics B2 Flight management systems Rating 16 • MEASS00437 SAL021 Avionics Inertial navigation systems Rating 17 • MEASS00438 SAL022 Avionics B2 Secondary radar Rating 18 • MEASS00439 SAL023 Avionics B2 Weather radar Rating 19
------------	---

Alignment of VET qualification standards to CASA licensing regulations

Skill Sets	<ul style="list-style-type: none"> • MEASS00440 SAL024 Avionics B2 Cockpit voice recorder Rating 20 • MEASS00441 SAL025 Avionics B2 Flight data recorder systems Rating 21 • MEASS00442 SAL026 Avionics B2 High frequency radio systems Rating 22 • MEASS00443 SAL027 B1.1 Removal of small aircraft limitation • MEASS00444 SAL028 B1.3 Removal of small aircraft limitation • MEASS00445 SAL029 B2 Removal of small aircraft limitation • MEASS00446 SAL030 Attainment of a B1.2 licence by holders of a B1.1 small aircraft licence • MEASS00447 SAL031 Attainment of a B1.3 licence by holders of a B1.1 small aircraft licence • MEASS00448 SAL032 Attainment of a B1.4 licence by holders of a B1.1 small aircraft licence • MEASS00449 SAL033 Attainment of a B1.1 small aircraft licence by holders of a B1.2 licence • MEASS00450 SAL034 Attainment of a B1.3 small aircraft licence by holders of a B1.2 licence • MEASS00451 SAL035 Attainment of a B1.4 licence by holders of a B1.2 licence • MEASS00452 SAL036 Attainment of a B1.1 small aircraft licence by holders of a B1.3 small aircraft licence • MEASS00453 SAL037 Attainment of a B1.2 licence by holders of a B1.3 small aircraft licence • MEASS00454 SAL038 Attainment of a B1.4 licence by holders of a B1.3 small aircraft licence • MEASS00455 SAL039 Attainment of a B1.1 small aircraft licence by holders of a B1.4 licence • MEASS00456 SAL040 Attainment of a B1.2 licence by holders of a B1.4 licence • MEASS00457 SAL041 Attainment of a B1.3 small aircraft licence by holders of a B1.4 licence
------------	--

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<p>A total of 383 units of competency to be redeveloped as part of this project.</p> <p>The first phase of this work will determine if there are any new units of competency required.</p> <p>262 existing units of competency to be revised and redeveloped:</p> <ul style="list-style-type: none"> • MEA101 Interpret work health and safety practices in aviation maintenance • MEA103 Plan and organise aviation maintenance work activities • MEA105 Apply quality standards applicable to aviation maintenance processes • MEA107 Interpret and use aviation maintenance industry manuals and specifications • MEA108 Complete aviation maintenance industry documentation • MEA109 Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance • MEA111 Perform administrative processes to prepare for certification of civil aircraft maintenance • MEA112 Plan and implement civil aircraft maintenance activities • MEA113 Supervise civil aircraft maintenance activities and manage human resources in the workplace • MEA114 Certify aeronautical product maintenance • MEA115 Plan and implement aeronautical product maintenance activities • MEA116 Apply occupational health and safety procedures at supervisor level in aviation maintenance • MEA117 Apply self in the aviation maintenance environment • MEA118 Conduct self in the aviation maintenance environment • MEA119 Perform administrative processes to prepare for certification of civil aircraft A level line maintenance • MEA120 Manage an aviation maintenance quality system • MEA121 Manage aircraft/aeronautical product configuration • MEA122 Manage aircraft/equipment system performance testing • MEA123 Manage aviation maintenance work environment policy and practices • MEA124 Coordinate change programs in the aviation maintenance environment • MEA125 Develop aviation maintenance personnel • MEA126 Manage aircraft maintenance activities • MEA127 Provide technical advice in the maintenance and management of aircraft and aeronautical product • MEA128 Provide engineering advice in the modification, maintenance and management of aircraft systems • MEA129 Investigate technical aspects of aviation occurrences • MEA130 Manage deployed/detached aviation maintenance activities • MEA131 Manage the custody, transfer and disposal of aircraft, aeronautical product and support equipment • MEA132 Manage budgetary resources in the aviation maintenance environment • MEA133 Communicate aviation technical and maintenance management knowledge • MEA134 Establish, maintain and evaluate the organisation's work health and safety system
---------------------	--

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEA135 Use computers in aviation maintenance-related integrated logistic support activities • MEA136 Assess aviation maintenance spares and manage repairable items • MEA137 Write aviation technical publications • MEA138 Perform aviation technical publication management activities • MEA139 Perform aviation maintenance – related integrated logistic support management activities • MEA140 Supervise aviation maintenance teams and perform maintenance quality inspections • MEA141 Manage risk in aviation maintenance • MEA142 Manage self in the aviation maintenance environment • MEA143 Develop and manage maintenance error management programs • MEA145 Conversion from allied trades for employment in aviation maintenance workshops • MEA146 Prepare and manage aviation maintenance organisation budgets and financial plans • MEA147 Perform airworthiness management and maintenance program tasks • MEA148 Apply mathematics and physics in aviation maintenance • MEA201 Remove and install miscellaneous aircraft electrical hardware/components • MEA202 Remove and install basic aircraft electrical system components • MEA203 Remove and install advanced aircraft electrical system components • MEA204 Remove and install basic aircraft instrument system components • MEA205 Remove and install advanced aircraft instrument system components • MEA206 Remove and install aircraft basic radio communication and navigation system components • MEA207 Remove and install aircraft electronic system components • MEA208 Remove and install aircraft pressurisation control system components • MEA209 Remove and install aircraft oxygen system components • MEA210 Inspect, test and troubleshoot basic aircraft electrical systems and components • MEA211 Inspect, test and troubleshoot advanced aircraft electrical systems and components • MEA212 Inspect, test and troubleshoot basic aircraft instrument systems and components • MEA213 Inspect, test and troubleshoot advanced aircraft instrument systems and components • MEA214 Inspect, test and troubleshoot aircraft basic communication and radio navigation systems and components • MEA215 Inspect, test and troubleshoot advanced aircraft communications systems and components • MEA216 Inspect, test and troubleshoot instrument landing systems and components • MEA217 Inspect, test and troubleshoot fixed wing autopilot systems and components • MEA218 Inspect, test and troubleshoot rotary wing autopilot systems and components • MEA219 Inspect, test and troubleshoot aircraft pressurisation control systems and components
---------------------	---

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEA220 Inspect, test and troubleshoot aircraft primary radar systems and components • MEA221 Inspect, test and troubleshoot aircraft secondary radar systems and components • MEA222 Inspect, test and troubleshoot aircraft oxygen systems and components • MEA223 Inspect aircraft electrical systems and components • MEA224 Inspect aircraft instrument systems and components • MEA225 Inspect fixed wing aircraft automatic flight control systems and components • MEA226 Inspect aircraft electronic systems and components • MEA227 Test and troubleshoot aircraft electrical systems and components • MEA228 Test and troubleshoot aircraft instrument systems and components • MEA229 Test and troubleshoot aircraft radio frequency navigation and communications systems and components • MEA230 Test and troubleshoot fixed wing aircraft automatic flight control systems and components • MEA231 Inspect, test and troubleshoot rotary wing aircraft automatic flight control systems and components • MEA232 Test and troubleshoot aircraft pulse systems and components • MEA233 Inspect, test and troubleshoot aircraft inertial navigation and reference systems and components • MEA234 Inspect, test and troubleshoot aircraft global navigation systems and components • MEA235 Perform advanced troubleshooting in aircraft avionic maintenance • MEA238 Perform routine removal and installation of miscellaneous aircraft electrical hardware/components • MEA239 Fabricate aircraft electrical looms and harnesses • MEA240 Use electrical test equipment to perform basic electrical tests • MEA241 Perform aircraft weight and balance calculations as a result of modifications • MEA246 Fabricate and/or repair aircraft electrical hardware or parts • MEA252 Test, align and troubleshoot aircraft synchro and servo system components • MEA260 Use electrical test equipment • MEA261 Use electronic test equipment • MEA262 Modify/repair aircraft component single layer printed circuit boards • MEA263 Modify/repair aircraft component multi-layer printed circuit boards • MEA264 Remove and install aircraft electrical/avionic components during line maintenance • MEA265 Remove and install general aircraft electrical hardware • MEA266 Terminate and repair aircraft optical fibre cable • MEA270 Lay out avionic systems • MEA271 Lay out avionic flight management systems • MEA274 Maintain basic light aircraft electrical systems and components • MEA275 Maintain basic light aircraft instrument systems and components
---------------------	---

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEA276 Maintain basic aircraft communication and radio navigation systems and components • MEA277 Maintain twin engine aircraft electrical systems and components • MEA278 Inspect, test and troubleshoot instrument display systems and components • MEA279 Inspect, test and troubleshoot full authority digital engine control systems • MEA280 Inspect, test and troubleshoot flight management systems and components • MEA281 Maintain light aircraft AC powered instrument systems and components • MEA282 Repair or overhaul aircraft pulse system components • MEA283 Repair or overhaul aircraft display, control and distribution system components • MEA284 Repair or overhaul aircraft instrument system components • MEA285 Repair or overhaul aircraft radio frequency communication and navigation system component • MEA286 Repair or overhaul aircraft electrical/electro-mechanical components • MEA287 Repair or overhaul aircraft oxygen system components • MEA288 Repair or overhaul aircraft audio and visual systems and reproducers • MEA289 Maintain basic light aircraft avionic systems and components • MEA290 Fit avionic modification sheet metal components • MEA291 Inspect, test and troubleshoot fixed wing single axis autopilot systems and components • MEA301 Perform aircraft flight servicing • MEA302 Remove and install aircraft hydro-mechanical and landing gear system components • MEA303 Remove and install aircraft pneumatic system components • MEA304 Remove and install non-pressurised aircraft structural and non-structural components • MEA305 Remove and install aircraft fixed wing flight control system components • MEA306 Remove and install engines and engine system components • MEA307 Remove and install propeller systems and components • MEA308 Remove and install rotary wing rotor and flight control system components • MEA309 Inspect, test and troubleshoot aircraft hydro-mechanical and landing gear systems and components • MEA310 Inspect, test and troubleshoot aircraft pneumatic systems and components • MEA312 Inspect, test and troubleshoot aircraft fixed wing flight control systems and components • MEA313 Inspect, test and troubleshoot piston engine systems and components • MEA314 Inspect, test and troubleshoot gas turbine engine systems and components • MEA315 Inspect, test and troubleshoot propeller systems and components • MEA316 Inspect, test and troubleshoot rotary wing rotor and control systems and components • MEA317 Remove and install pressurised aircraft structural and non-structural components • MEA318 Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear systems and components
---------------------	--

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEA319 Inspect gas turbine engine systems and components • MEA320 Test and troubleshoot aircraft hydro-mechanical, gaseous and landing gear systems and components • MEA321 Test and troubleshoot aircraft fixed wing flight control systems and components • MEA322 Test and troubleshoot gas turbine engine systems and components • MEA323 Perform advanced troubleshooting in aircraft mechanical maintenance • MEA325 Weigh aircraft and perform aircraft weight and balance calculations as a result of modifications • MEA327 Fabricate and/or repair aircraft mechanical components or parts • MEA328 Maintain and/or repair aircraft mechanical components or parts • MEA329 Maintain aircraft basic hydraulic and pneumatic components or parts • MEA330 Maintain aircraft non-primary structural removable components or parts and internal fittings • MEA331 Maintain aircraft gas turbine engine components or parts • MEA332 Maintain aircraft mechanical components or parts • MEA333 Maintain aircraft piston engine components or parts • MEA339 Inspect, repair and maintain aircraft structures • MEA340 Lay out and set up aircraft systems • MEA341 Apply basic aircraft design characteristics • MEA342 Apply basic aircraft power plant design characteristics • MEA343 Remove and install avionic system components • MEA344 Remove and install aircraft components • MEA345 Perform scheduled line maintenance activities on gas turbine engine fixed wing aircraft • MEA346 Perform scheduled line maintenance activities on gas turbine engine rotary wing aircraft • MEA347 Perform scheduled line maintenance activities on piston engine fixed wing aircraft • MEA348 Perform scheduled line maintenance activities on piston engine rotary wing aircraft • MEA351 Maintain airframe systems of basic light fixed wing aircraft • MEA352 Maintain basic rotary wing aircraft systems • MEA353 Maintain basic light aircraft engines and propellers • MEA354 Maintain light aircraft pneumatic systems • MEA355 Maintain light aircraft air cycle air conditioning systems • MEA356 Maintain light piston engine aircraft pressurisation systems • MEA357 Inspect, test and repair aircraft fabric surfaces • MEA358 Re-cover aircraft fabric surfaces • MEA359 Inspect and repair aircraft wooden structures • MEA360 Maintain aircraft diesel engines
---------------------	--

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEA361 Maintain aircraft two stroke petrol engines • MEA362 Maintain aircraft vapour cycle air conditioning systems • MEA364 Maintain and/or repair small aircraft mechanical components or parts • MEA365 Assess structural repair/modification requirements and evaluate structural repairs and modifications • MEA366 Perform borescope inspections • MEA367 Repair/modify aircraft composite structure using cold bonding • MEA368 Shot peen aircraft components • MEA369 Inspect and maintain structures and related components of non-pressurised small aircraft • MEA370 Repair the structure of non-pressurised small aircraft • MEA371 Perform major repairs and modifications to small aircraft metal structure • MEA372 Perform mechanical elementary maintenance • MEA380 Repair and/or overhaul aircraft hydraulic system components • MEA381 Repair and/or overhaul aircraft pneumatic system components • MEA382 Repair and/or overhaul aircraft fuel system components • MEA383 Repair and/or overhaul gas turbine engine air inlet and compressor components and/or modules • MEA384 Repair and/or overhaul gas turbine engine combustion section components and/or modules • MEA385 Repair and/or overhaul gas turbine engine turbine and exhaust section components • MEA386 Repair and/or overhaul gas turbine engine ancillary section components • MEA387 Test gas turbine engines and engine modules after overhaul or repair • MEA389 Repair and/or overhaul propellers • MEA390 Repair and/or overhaul rotary wing dynamic components • MEA391 Repair and/or overhaul aircraft mechanical system components • MEA392 Disassemble aircraft piston engines • MEA393 Repair and/or overhaul aircraft piston engine cylinder assembly components • MEA394 Repair and/or overhaul aircraft piston engine crankcase assembly components • MEA395 Reassemble aircraft piston engines • MEA396 Assemble aircraft piston engine quick engine change unit • MEA397 Test aircraft piston engines after repair or overhaul • MEA401 Inspect aircraft structures • MEA405 Repair/modify aircraft composite material structure/components • MEA406 Repair/modify aircraft non-primary structural sheet metal components • MEA407 Repair/modify aircraft non-primary structural non-metallic components • MEA410 Maintain aircraft structure/components
---------------------	---

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEA411 Remove surface coatings from aircraft or aircraft components • MEA412 Pre-treat aluminium alloy surfaces • MEA413 Seal aircraft and aircraft component structural seams • MEA414 Remove light corrosion from aircraft • MEA415 Paint aircraft surfaces • MEA416 Apply aircraft identification markings, graphics and decals • MEA417 Apply specialty coatings to aircraft • MEA418 Perform basic repair of aircraft internal fittings during line maintenance • MEA419 Inspect and repair/modify aircraft cabin/cockpit non-primary structure components • MEA420 Fabricate basic structural components for aircraft • MEA421 Fabricate advanced structural components for aircraft • MEA422 Repair/modify aircraft metal structure • MEA423 Aircraft structure major disassembly and reassembly • MEA424 Evaluate aircraft non-destructive tests • MEA425 Perform bolted composite skin repairs • MEA430 Gas weld aircraft components • MEA431 Braze weld aircraft components • MEA432 Weld aircraft components using the gas tungsten arc welding process • MEA433 Weld aircraft components using the gas metal arc welding process • MEA434 Weld aircraft components using the plasma arc welding process • MEA435 Weld aircraft components using the manual metal arc welding process • MEA501 Maintain and fit anti-G suits • MEA502 Maintain and fit helmets • MEA503 Maintain and fit immersion suits • MEA504 Maintain and fit oxygen masks • MEA505 Maintain and pack parachutes • MEA507 Maintain, pack and fit survival inflatable buoyancy vests • MEA508 Maintain, install and remove restraint systems • MEA509 Manufacture, repair and alter aircraft related fabric components • MEA510 Maintain seat and pod electrical and electronic systems • MEA511 Operate and maintain sewing machines and overlockers • MEA512 Maintain general aviation recovery devices with ballistic parachute systems • MEA513 Maintain and pack survival inflatable life rafts
---------------------	---

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEA514 Maintain and pack escape slides • MEA601 Maintain aircraft egress systems • MEA602 Remove and install aircraft stores management system components • MEA603 Remove and install aircraft stores suspension system components • MEA604 Inspect, test and troubleshoot aircraft stores management systems and components • MEA605 Inspect, test and troubleshoot aircraft stores suspension systems and components • MEA701 Produce aeronautical engineering related graphics • MEA702 Produce avionics engineering related graphics • MEA703 Apply aeronautical modelling for computer-aided engineering • MEA704 Apply avionic modelling for computer-aided engineering • MEA705 Apply basic scientific principles and techniques in aeronautical engineering situations • MEA706 Apply basic scientific principles and techniques in avionic engineering situations • MEA707 Select and test aeronautical engineering materials • MEA708 Select and test avionic engineering materials • MEA709 Apply aeronautical structure design techniques • MEA710 Apply aeronautical system design techniques • MEA711 Apply avionic analogue design techniques • MEA712 Apply avionic digital design techniques • MEA713 Integrate aeronautical fundamentals into an engineering task • MEA714 Integrate avionic fundamentals into an engineering task • MEA715 Evaluate aeroplane flight control systems • MEA716 Evaluate avionic analogue systems • MEA717 Evaluate avionic digital systems • MEA718 Evaluate rotorcraft flight control systems • MEA719 Evaluate aircraft electrical systems • MEA720 Evaluate aircraft gas turbine engine power plants • MEA721 Evaluate aircraft hydro-mechanical systems • MEA722 Evaluate aircraft piston engine power plants • MEA723 Evaluate aircraft pneumatic systems • MEA724 Evaluate aircraft structure • MEA725 Apply advanced scientific principles and techniques in avionic engineering situations • MEA726 Apply aircraft electrical system design techniques • MEA727 Apply calculus in avionic engineering situations
---------------------	--

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEA729 Apply configuration management procedures in airworthiness engineering management • MEA730 Apply systems engineering procedures to airworthiness engineering design project management <p>121 imported units of competency to be reviewed for suitability and currency as many have been superseded</p> <ul style="list-style-type: none"> • AURVTP2003 Prepare spray painting materials and equipment • AURVTP3012 Apply air dry and polyurethane enamel refinishing materials • AURVTT2004 Trim vehicle components • AURVTT2005 Select and apply trim and fabric materials • AURVTT2006 Select and apply trim and fabric adhesives • AVIF3016A Marshal aircraft • DEFE0101D Work safely with explosive ordnance • DEFE0301D Package ammunition • DEFE0302D Unpackage ammunition • DEFE0501D Conduct explosive ordnance inspection • DEFE0718C Maintain cartridge operated fire extinguisher systems • LMTTF2008A Use adhesives • MEM05004C Perform routine oxy acetylene welding • MEM05006C Perform brazing and or silver soldering • MEM05007C Perform manual heating and thermal cutting • MEM05012C Perform routine manual metal arc welding • MEM05015D Weld using manual metal arc welding process • MEM05016C Perform advanced welding using manual metal arc welding process • MEM05017D Weld using gas metal arc welding process • MEM05018C Perform advanced welding using gas metal arc welding process • MEM05019D Weld using gas tungsten arc welding process • MEM05020C Perform advanced welding using gas tungsten arc welding process • MEM05022C Perform advanced welding using oxy acetylene welding process • MEM05026C Apply welding principles • MEM05043B Perform welds to code standards using gas metal arc welding process • MEM05044B Perform welds to code standards using gas tungsten arc welding process • MEM05046B Perform welds to code standards using manual metal arc welding process
---------------------	--

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEM05052A Apply safe welding practices • MEM06003C Carry out heat treatment • MEM07001B Perform operational maintenance of machines/equipment • MEM07002B Perform precision shaping/planing/slotting operations • MEM07005C Perform general machining • MEM07006C Perform lathe operations • MEM07007C Perform milling operations • MEM07008D Perform grinding operations • MEM07009B Perform precision jig boring operations • MEM07010B Perform tool and cutter grinding operations • MEM07011B Perform complex milling operations • MEM07012B Perform complex grinding operations • MEM07013B Perform machining operations using horizontal and/or vertical boring machines • MEM07015B Set computer controlled machines/processes • MEM07016C Set and edit computer controlled machines/processes • MEM07018C Write basic NC/CNC programs • MEM07019C Program NC/CNC machining centre • MEM07020C Program multiple spindle and/or multiple axis NC/CNC machining centre • MEM07021B Perform complex lathe operations • MEM07022C Program CNC wire cut machines • MEM07024B Operate and monitor machine/process • MEM07028B Operate computer controlled machines/processes • MEM07030C Perform metal spinning lathe operations (basic) • MEM07031C Perform metal spinning lathe operations (complex) • MEM07032B Use workshop machines for basic operations • MEM08001B Perform wire, jig and barrel load/unload work • MEM08002C Pre-treat work for subsequent surface coating • MEM08003C Perform electroplating operations • MEM08004B Finish work using wet, dry and vapour deposition methods • MEM08006B Produce clear and/or coloured and/or sealed anodised films on aluminium • MEM08018B Electroplate engineering coatings • MEM09002B Interpret technical drawing • MEM09003B Prepare basic engineering drawing
---------------------	---

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEM09009C Create 2D drawings using computer aided design system • MEM12001B Use comparison and basic measuring devices • MEM12003B Perform precision mechanical measurement • MEM12023A Perform engineering measurements • MEM12024A Perform computations • MEM13003B Work safely with industrial chemicals and materials • MEM13013B Work safely with ionizing radiation • MEM15004B Perform inspection • MEM15010B Perform laboratory procedures • MEM15017B Use and maintain reference standards • MEM16002C Conduct formal interviews and negotiations • MEM16006A Organise and communicate information • MEM16008A Interact with computing technology • MEM16010A Write reports • MEM17002B Conduct workplace assessment • MEM18001C Use hand tools • MEM18002B Use power tools/hand held operations • MEM22013A Coordinate engineering projects • MEM23004A Apply technical mathematics • MEM23007A Apply calculus to engineering tasks • MEM234019A Apply finite element analysis in engineering design • MEM234022A Apply advanced calculus to technology problems • MEM24001B Perform basic penetrant testing • MEM24002B Perform penetrant testing • MEM24003B Perform basic magnetic particle testing • MEM24004B Perform magnetic particle testing • MEM24005B Perform basic eddy current testing • MEM24006B Perform eddy current testing • MEM24007B Perform ultrasonic thickness testing • MEM24008B Perform ultrasonic testing • MEM24009B Perform basic radiographic testing • MEM24010B Perform radiographic testing • MEM24011B Establish non-destructive tests
---------------------	--

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEM24012C Apply metallurgy principles • MEM30007A Select common engineering materials • MEM30012A Apply mathematical techniques in a manufacturing engineering or related environment • MSAENV272B Participate in environmentally sustainable work practices • MSAENV472B Implement and monitor environmentally sustainable work practices • MSAENV672B Develop workplace policy and procedures for environmental sustainability • MSFSF2001 Cut single layer fabric • MSFSF2002 Machine sew materials • MSFUP3012 Apply marine sewing and installation techniques • PMBPROD262B Operate tyre curing equipment • PMBPROD263B Operate retread curing equipment • PMBPROD264C Check recycle wash process • PMBPROD265C Operate portable vulcanising equipment • PMBPROD266B Prepare tyre casings for retreading • PMBPROD324B Inspect tyres for retreading • PMBPROD325B Lay on tyre retreads • PMBPROD326B Inspect tyres • PSPMNGT610A Manage public sector financial resources • TAEASS401B Plan assessment activities and processes • TAEASS402B Assess competence • TAEASS403B Participate in assessment validation • TAEASS502B Design and develop assessment tools • TAEDEL301A Provide work skill instruction • TAEDEL402A Plan, organise and facilitate learning in the workplace • TAEDES401A Design and develop learning programs
---------------------	---

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEM09009C Create 2D drawings using computer aided design system • MEM12001B Use comparison and basic measuring devices • MEM12003B Perform precision mechanical measurement • MEM12023A Perform engineering measurements • MEM12024A Perform computations • MEM13003B Work safely with industrial chemicals and materials • MEM13013B Work safely with ionizing radiation • MEM15004B Perform inspection • MEM15010B Perform laboratory procedures • MEM15017B Use and maintain reference standards • MEM16002C Conduct formal interviews and negotiations • MEM16006A Organise and communicate information • MEM16008A Interact with computing technology • MEM16010A Write reports • MEM17002B Conduct workplace assessment • MEM18001C Use hand tools • MEM18002B Use power tools/hand held operations • MEM22013A Coordinate engineering projects • MEM23004A Apply technical mathematics • MEM23007A Apply calculus to engineering tasks • MEM234019A Apply finite element analysis in engineering design • MEM234022A Apply advanced calculus to technology problems • MEM24001B Perform basic penetrant testing • MEM24002B Perform penetrant testing • MEM24003B Perform basic magnetic particle testing • MEM24004B Perform magnetic particle testing • MEM24005B Perform basic eddy current testing • MEM24006B Perform eddy current testing • MEM24007B Perform ultrasonic thickness testing • MEM24008B Perform ultrasonic testing • MEM24009B Perform basic radiographic testing • MEM24010B Perform radiographic testing • MEM24011B Establish non-destructive tests
---------------------	--

Alignment of VET qualification standards to CASA licensing regulations

Units of Competency	<ul style="list-style-type: none"> • MEM24012C Apply metallurgy principles • MEM30007A Select common engineering materials • MEM30012A Apply mathematical techniques in a manufacturing engineering or related environment • MSAENV272B Participate in environmentally sustainable work practices • MSAENV472B Implement and monitor environmentally sustainable work practices • MSAENV672B Develop workplace policy and procedures for environmental sustainability • MSFSF2001 Cut single layer fabric • MSFSF2002 Machine sew materials • MSFUP3012 Apply marine sewing and installation techniques • PMBPROD262B Operate tyre curing equipment • PMBPROD263B Operate retread curing equipment • PMBPROD264C Check recycle wash process • PMBPROD265C Operate portable vulcanising equipment • PMBPROD266B Prepare tyre casings for retreading • PMBPROD324B Inspect tyres for retreading • PMBPROD325B Lay on tyre retreads • PMBPROD326B Inspect tyres • PSPMNGT610A Manage public sector financial resources • TAEASS401B Plan assessment activities and processes • TAEASS402B Assess competence • TAEASS403B Participate in assessment validation • TAEASS502B Design and develop assessment tools • TAEDEL301A Provide work skill instruction • TAEDEL402A Plan, organise and facilitate learning in the workplace • TAEDES401A Design and develop learning programs
---------------------	---
