

Field Engineering and Technology

Review of *Aeronautical Maintenance Certification* unit standards

Subfield	Domain	ID
Aeronautical Engineering	Aeronautical Maintenance Certification	20895-20904, 21060, 26963-26968, 27733-27750

Ringa Hora Services Workforce Development Council (WDC) has completed the review of the unit standards listed above.

Date new versions published

October 2022

Planned review date

December 2027

Summary

Ringa Hora Services WDC reviewed 35 unit standards within the *Aeronautical Maintenance Certification* domain to verify whether the standards still meet the requirements of the relevant Civil Aviation Authority (CAA) Syllabi for the Aircraft Maintenance Engineer Licence, or the European Aviation Safety Agency (EASA) Aircraft Maintenance Licence, as applicable.

Consultation was carried out in September 2022 with subject matter experts from the Aeronautical Engineering Industry Advisory Group by email, requesting feedback and amendments to ensure the unit standards reflected current industry requirements. Feedback was incorporated where valid.

Main changes

- Minor edit carried out to the CAA aligned standards to match CAA format.
- Minor edit carried out to standard 20904 to include safety management.
- Minor edit carried out to the EASA aligned standards to match EASA format.
- Reference to iSpec 2200 Information Standards for Aviation Maintenance updated to latest version where applicable.

The last date for assessment of superseded versions of Category B unit standards is December 2024

Detailed list of unit standards – classification, title, level, and credits

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

Engineering and Technology > Aeronautical Engineering > Aeronautical Maintenance Certification

ID	Title	Level	Credit	Review Category
20895	Apply knowledge of aircraft engineering to the certification of aeronautical maintenance	6	20	B
20896	Apply knowledge of aircraft materials to the certification of aeronautical maintenance	6	25	B

ID	Title	Level	Credit	Review Category
20897	Apply knowledge of basic aeroplanes to the certification of aeronautical maintenance	6	20	B
20898	Apply knowledge of pressurised aeroplanes to the certification of aeronautical maintenance	6	25	B
20899	Apply knowledge of rotorcraft to the certification of aeronautical maintenance	6	20	B
20900	Apply knowledge of piston engines to the certification of aeronautical maintenance	6	20	B
20901	Apply knowledge of turbine engines to the certification of aeronautical maintenance	6	25	B
20902	Apply knowledge of avionics to the certification of aeronautical maintenance	6	25	B
20903	Apply knowledge of compass compensation to the certification of aeronautical maintenance	6	10	B
20904	Apply knowledge of air law to the certification of aeronautical maintenance	6	25	B
21060	Apply knowledge of human factors to the certification of aeronautical maintenance	6	20	B
26963	Apply knowledge of mathematics and physics to the certification of aeronautical maintenance	6	20	B
26964	Apply knowledge of electrical fundamentals to the certification of aeronautical maintenance	6	20	B
26965	Apply knowledge of advanced avionics to the certification of aeronautical maintenance	6	30	B
26966	Apply knowledge of aircraft electrical systems to the certification of aeronautical maintenance	6	30	B
26967	Apply knowledge of aircraft instrument systems to the certification of aeronautical maintenance	6	30	B
26968	Apply knowledge of aircraft radio systems to the certification of aeronautical maintenance	6	30	B
27733	Demonstrate knowledge of mathematics for aeronautical engineering (EASA 147 Maintenance)	5	7	B
27734	Demonstrate knowledge of the principles of physics to aeronautical engineering (EASA 147 Maintenance)	5	7	B
27735	Demonstrate knowledge of electrical fundamentals for aeronautical engineering (EASA 147 Maintenance)	5	20	B
27736	Demonstrate knowledge of electronic fundamentals for aeronautical engineering (EASA 147 Maintenance)	5	12	B
27737	Demonstrate knowledge of digital techniques for aeronautical engineering (EASA 147 Maintenance)	5	12	B
27738	Demonstrate knowledge of materials and hardware for aeronautical engineering (EASA 147 Maintenance)	5	30	B
27739	Demonstrate knowledge of maintenance practices for aeronautical engineering (EASA 147 Maintenance)	5	50	B
27740	Demonstrate knowledge of basic aerodynamics for aeronautical engineering (EASA 147 Maintenance)	5	7	B
27741	Demonstrate knowledge of human factors for aeronautical engineering (EASA 147 Maintenance)	5	15	B
27742	Demonstrate knowledge of aviation legislation for aeronautical engineering (EASA 147 Maintenance)	5	10	B
27743	Demonstrate knowledge of turbine aeroplanes for aeronautical engineering (EASA 147 Maintenance)	5	55	B
27744	Demonstrate knowledge of piston aeroplanes for aeronautical engineering (EASA 147 Maintenance)	5	55	B

ID	Title	Level	Credit	Review Category
27745	Demonstrate knowledge of helicopters for aeronautical engineering (EASA 147 Maintenance)	5	60	B
27746	Demonstrate knowledge of aeroplanes for aeronautical engineering (EASA 147 Maintenance)	5	60	B
27747	Demonstrate knowledge of propulsion for aeronautical engineering (EASA 147 Maintenance)	5	15	B
27748	Demonstrate knowledge of gas turbine engine for aeronautical engineering (EASA 147 Maintenance)	5	15	B
27749	Demonstrate knowledge of piston engine for aeronautical engineering (EASA 147 Maintenance)	5	15	B
27750	Demonstrate knowledge of propellers for aeronautical engineering (EASA 147 Maintenance)	5	5	B