

Field Engineering and Technology**Review of *Aeronautical Engineering* unit standards**

Subfield	Domain	ID
Aeronautical Engineering	Aeronautical Electroplating	23594-23600, 25612, 30693, 30694
	Aeronautical Engineering Technical Support	10793-10797
	Aircraft Servicing	3901-3904, 3906-3909, 3911-3915, 3917, 3929, 3930, 20629-20631, 20634, 23165-23167, 30698

ServicelQ has completed the review of the unit standards listed above.

Date new versions published

March 2020

Planned review date

December 2024

Summary

This is the third set of a wider review of all unit standards in the *Aeronautical Engineering* subfield. The review was undertaken in consultation with the Aeronautical Engineering industry which included Air New Zealand, Royal New Zealand Air Force, Air New Zealand Engine Workplace, and Nelson Marlborough Institute of Technology to, ensure the standards' relevance, as the technology associated with aircraft has become more sophisticated. The consultation for the review took place in May 2019. The initial meeting was held at ServicelQ in Wellington with industry around a table. The standards were taken back to the workplace and suggestions were made to ServicelQ regarding changes to be incorporated.

Main changes

- Unit standards were transferred to the current template and terminology was updated accordingly.
- Some range statements were amended to allow items listed to be optional rather than mandatory.
- Stems of some of range statements were amended.

The last date for assessment of superseded versions of Category B unit standards is December 2021

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

All changes are in **bold**.

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 Electroplating

ID	Title	Level	Credit	Review Category
23594	Clean aircraft components for aeronautical electroplating	4	5	B

ID	Title	Level	Credit	Review Category
23595	Hard anodise aeronautical grade aluminium components	4	15	B
23596	Apply metallic coatings to flight critical aircraft components	4	15	B
23597	Apply alloy coatings to aircraft components	4	15	B
23598	Apply nickel-cadmium to aeronautical components	4	10	B
23599	Apply metals to conductive aeronautical substrates using the selective (brush) plating process	4	10	B
23600	Analyse aeronautical electroplating solutions	5	15	B
25612	Apply chromium hard deposit to aircraft components	4	20	B
30693	Anodise aeronautical grade aluminium components	4	10	B
30694	Carry out chemical conversion of aeronautical grade aluminium components	4	5	B

Engineering and Technology > Aeronautical Engineering > Aeronautical Engineering Technical Support

ID	Title	Level	Credit	Review Category
10793	Control incoming aeronautical engineering technical information	4	6	B
10794	Evaluate incoming aeronautical engineering technical information	5	20	B
10795	Provide aeronautical engineering technical information and instructions	6	75	B
10796	Promulgate and control aeronautical engineering technical information and instructions	4	8	B
10797	Develop and maintain maintenance programmes for aircraft and aircraft components	6	65	B

Engineering and Technology > Aeronautical Engineering > Aircraft Servicing

ID	Title	Level	Credit	Review Category
3901	Clean aircraft exterior surfaces	4	4	B
3902	Clean the gas path of aircraft gas turbine engines	4	2	B
3903	Clean aircraft interiors	4	2	B
3904	Compensate aircraft compasses	4	2	B
3906	Service fixed wing aircraft	4	6	B
3907	Carry out aircraft ground handling	4	4	B
3908	Replenish aircraft undercarriage oleos (shock struts)	4	2	B
3909	Replenish aircraft engine power augmentation or restoration systems	4	2	B
3911	Replenish aircraft hydraulic systems	4	2	B
3912	Replenish aircraft de-icing systems	4	2	B
3913	Replenish aircraft liquid oxygen systems	4	2	B
3914	Replenish aircraft gaseous oxygen systems	4	2	B
3915	Replenish aircraft pneumatic systems	4	2	B
3917	Transport aircraft	4	4	B
3929	Prepare aircraft for storage	4	8	B
3930	Remove aircraft from storage and prepare for service	4	4	B
20629	Replenish aircraft potable water systems	4	2	B
20630	Service aircraft toilet systems	4	2	B
20631	Lift and lower an aircraft	4	4	B
20634	Refuel aircraft	4	4	B

ID	Title	Level	Credit	Review Category
23165	Ground run propeller driven aircraft engines up to 300 horsepower or equivalent	4	5	B
23166	Ground run propeller driven aircraft engines over 300 horsepower or equivalent	5	10	B
23167	Ground run turbo-jet or turbo-fan aircraft engines	5	10	B
30698	Charge or inflate aeronautical components using high-pressure charging equipment	4	4	B