Field Engineering and Technology

Revision and development of Aeronautical Engineering unit standards

Subfield	Domain	ID
Aeronautical Engineering	Aircraft Furnishings and	4003
	Equipment	
	Aircraft Mechanical Repair	3932
	and Overhaul	
	Avionic Instrument Repair	22557, 22933

ServiceIQ has completed the revision of the unit standards listed above.

Date new versions published November 2017

Planned review date for revised standards (unchanged) December 2018

Planned review date for new standards December 2022

Summary

As a result of changes in technology, amendments were identified in the four revised standards.

During the consultation and research, additional gaps in technology requirements were identified, which were supported by the wider industry sector. New standards were developed to address these gaps.

Main changes

- A range statement was amended in standard 3932 to allow for mechanical and/or electrical brakes, and the credit value was increased from 10 to 12 credits.
- The range under performance criterion 2.1 of standard 4003 was amended as not all processes are carried out.
- The credit value of standard 22557 was decreased from 40 to 20 credits due to changes in the amount of repair work that can be carried out on aircraft digital computer equipment.
- The range under performance criterion 4.2 of standard 22933 was amended to include Cockpit Voice Recorder audio down loading, and read out of flight data.
- 12 new standards were developed across seven domains.

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

Revised unit standards

All changes are in **bold**.

Engineering and Technology > Aeronautical Engineering > Aircraft Furnishings and Equipment

ID	Title	Level	Credit
4003	Fabricate and/or repair aircraft carpets	4	8

Engineering and Technology > Aeronautical Engineering > Aircraft Mechanical Repair and Overhaul

ID	Title	Level	Credit
3932	Repair and/or overhaul aircraft brake units	4	10
	·		12

Engineering and Technology > Aeronautical Engineering > Avionic Instrument Repair

ID	Title	Level	Credit
22557	Repair aircraft digital computer equipment	4	40
			20
22933	Repair aircraft flight data recording equipment	4	10

New unit standards

Engineering and Technology > Aeronautical Engineering > Aeronautical Electroplating

ID	Title	Level	Credit
30693	Anodise aeronautical grade aluminium components	4	10
30694	Carry out chemical conversion of aeronautical grade aluminium components	4	5

Engineering and Technology > Aeronautical Engineering > Aircraft Mechanical Maintenance

ID	Title	Level	Credit
30695	Maintain aircraft electrical fly-by-wire flight control systems	4	10

Engineering and Technology > Aeronautical Engineering > Aircraft Mechanical Repair and Overhaul

ID	Title	Level	Credit
30696	Repair and/or overhaul aircraft fire extinguishers	4	5
30697	Repair and/or overhaul aircraft pressure vessels and regulators	4	15

Engineering and Technology > Aeronautical Engineering > Aircraft Servicing

ID	Title	Level	Credit
30698	Charge or inflate aeronautical components using high-	4	4
	pressure charging equipment		

Engineering and Technology > Aeronautical Engineering > Avionic Electrical Repair

ID	Title	Level	Credit
30699	Repair aircraft liquid cooled electrical/avionics system	4	10
	components		
30700	Repair aircraft lithium batteries	4	5

Engineering and Technology > Aeronautical Engineering > Avionic Maintenance

ID	Title	Level	Credit
30701	Maintain aircraft liquid cooled electrical/avionics systems	4	5
30702	Carry out aircraft software loading	4	5

Engineering and Technology > Aeronautical Engineering > Avionic Radio Repair

ID	Title	Level	Credit
30703	Repair aircraft emergency locator transmitters (ELT)	4	10

ID	Title	Level	Credit
30704	Test aircraft radome transmissivity on a test rig	4	5