

## Field      Engineering and Technology

### Review of *Aeronautical Engineering* unit standards

Subfield	Domain	ID
Aeronautical Engineering	Aeronautical Armament	4037, 4038, 4040, 4042, 4043, 4045, 4047, 17643, 17645, 17647, 17649-17652, 17654, 17656-17660, 17662, 17663, 17665-17667
	Aeronautical Document Production	4016-4019

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

**Date new versions published**

**August 2020**

**Planned review date**

**December 2025**

### Summary

This is the tenth 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 ServiceIQ in Wellington with industry around a table. The standards were taken back to the workplace and suggestions were made to ServiceIQ regarding changes to be incorporated. The unit standards were checked, and content confirmed that these standards reflect the needs of the aeronautical engineering industry and are in line with international regulatory requirements.

### Main changes

- Unit standards were transferred to the current template and terminology was updated accordingly.
- Outcomes, performance criteria, range statements, and guidance information were updated to reflect the needs of the aeronautical engineering industry, and in line with international regulatory requirements.
- Stems of some of range statements were amended.
- Titles for some standards were amended to better reflect the content.
- Unit standards 4016-4019 were designated to expiring due to no usage. Domain *Aeronautical Document Production* was designated lapsing as a consequence.

**Category D unit standards will expire at the end of December 2022**

**The last date for assessment of superseded versions of Category B unit standards is December 2022**

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

All changes are in **bold**.

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

All changes are in **bold**.

Engineering and Technology > Aeronautical Engineering > Aeronautical Armament

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
4037	Dispose of explosive ordnance	6	15	B
4038	Maintain aircraft explosive escape systems	4	10	B
4040	Receive, store, and issue explosive ordnance <b>Receive, store, and issue explosive ordnance and associated components</b>	4	8	B
4042	Maintain aircraft armament pneumatic systems	4	10	B
4043	Inspect explosive ordnance	6	15	B
4045	Operate an air-to-ground weapons range	6	6	B
4047	Transport explosive ordnance <b>Transport explosive ordnance and associated components</b>	4	8	B
17643	Assemble and disassemble aircraft bombs <b>Assemble and disassemble practice and high-explosive aircraft bombs</b>	4	5	B
17645	Assemble and disassemble aircraft missiles	4	5	B
17647	Assemble and disassemble aircraft torpedoes	4	5	B
17649	Load and unload, and arm and disarm aircraft pintle mounted firing guns <b>Load and unload, and arm and disarm pintle mounted aircraft guns</b>	4	4	B
17650	Load and unload, and arm and disarm aircraft bombs	4	4	B
17651	Load and unload, and arm and disarm aircraft countermeasure stores	4	4	B
17652	Load and unload, and arm and disarm aircraft missiles	4	4	B
17654	Load and unload, and arm and disarm aircraft torpedoes	4	4	B
17656	Maintain aircraft pintle mounted gun systems	4	5	B
17657	Maintain aircraft countermeasure systems	4	8	B
17658	Maintain aircraft missiles	4	16	B
17659	Maintain aircraft torpedoes	4	10	B
17660	Maintain aircraft missile launching systems	4	5	B
17662	Maintain aircraft weapons release systems	4	6	B
17663	Repair and/or overhaul aircraft crew escape system components <b>Repair or overhaul aircraft crew escape system components</b>	4	25	B
17665	Repair and/or overhaul aircraft weapons release units <b>Repair or overhaul aircraft weapons release units</b>	4	10	B
17666	Repair and/or overhaul aircraft missile launching system components <b>Repair or overhaul aircraft missile launching system components</b>	4	15	B

ID	Title	Level	Credit	Review Category
17667	Repair and/or overhaul aircraft armament pneumatic system components <b>Repair or overhaul aircraft armament pneumatic system components</b>	4	12	B

Engineering and Technology > Aeronautical Engineering > Aeronautical Document Production

ID	Title	Level	Credit	Review Category
4016	Produce aeronautical graphic artwork	4	25	D
4017	Convert and transfer aeronautical electronic document files between operating systems	3	4	D
4018	Convert aeronautical manuscripts to electronic files	3	4	D
4019	Convert and transfer aeronautical electronic document files between software packages	3	4	D