

FIELD ENGINEERING AND TECHNOLOGY**Review of *Aeronautical Engineering* unit standards**

Subfield	Domain	Id
Aeronautical Engineering	Aeronautical Document Production	4016-4019
	Aeronautical Engineering Planning	10803-10806
	Aeronautical Engineering Production Control	10798-10802
	Aeronautical Engineering Quality Assurance	10807, 10997
	Aeronautical Engineering Technical Support	10793-10797
	Aircraft Painting	4013-4015

The Aviation, Tourism and Travel Training Organisation has completed the review of the unit standards listed above that were registered in June 1995 and July 1997.

Date new versions published

May 2006

Planned review date

December 2011

Summary of review and consultation process

The Aviation, Tourism and Travel Training Organisation (ATTTO) carried out the review of these standards following indications from industry that, as there had been no formal review since their original registration, they may no longer be current. These unit standards had passed their planned expiry date and required review to consider their relevance and fitness for purpose. Therefore, in conjunction with consultative groups, a review was initiated by the ATTTO. Expert panels, drawn from representatives from Air New Zealand, Royal New Zealand Air Force, Nelson Marlborough Institute of Technology and Pacific Aerospace Corporation, were selected to determine the skills and knowledge required for the Aeronautical Document Production, Aeronautical Engineering Planning, Aeronautical Engineering Production Control, Aeronautical Engineering Quality Assurance, Aeronautical Engineering Technical Support, and Aircraft Painting domains; discuss whether the existing unit standards are fit for purpose; and to identify any gaps where further unit standards would need to be developed due to technological advances in the industry.

Drafts of the reviewed unit standards were circulated via the expert panel to wider industry for feedback, as well as being posted into the public domain via the ATTTO website. All feedback was considered and where appropriate, incorporated into the standards. Several drafts were developed in order to accommodate the needs of as many stakeholders as possible, and these were then endorsed by the Aeronautical Engineering Advisory Group.

Please note that this review is the second stage of several to review all of the unit standards within the Aeronautical Engineering subfield.

Main changes resulting from the review

The review process has resulted in the following changes to the unit standards.

- Unit standards 4016 and 10793 have been increased from Level 3 to 4 due to the increased level of knowledge required.
- Unit standards have been updated to incorporate industry and technological advances.
- Amendments have been made to titles, elements, performance criteria, range statements and special notes to better meet industry requirements.

Impact on existing provider accreditations

None.

Impact on Accreditation and Moderation Action Plan (AMAP)

None.

Impact on existing qualifications

None.

Summary of main changes to standards' Ids, classification, titles, levels, and credits

The following summary shows the changes made to the standards as a result of the review. All changes are in **bold**.

Key to review category

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|----------|---|
| 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 |

Subfield Aeronautical Engineering
Domain Aeronautical Document Production

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

Domain Aeronautical Engineering Planning

Id	Title	Level	Credit	Review Category
10803	Produce a long term maintenance forecast plan for an aircraft fleet and major components Produce a long-term maintenance forecast plan for an aircraft fleet and major aircraft components	5	40	B
10804	Monitor and control an aircraft maintenance activity	5	10	B
10805	Plan aircraft maintenance activities using project management techniques	5	25	B
10806	Define and document the scope and work content of a planned aircraft maintenance activity Define and document the scope and requirements of a planned aircraft maintenance activity	5	45	B

Domain Aeronautical Engineering Production Control

Id	Title	Level	Credit	Review Category
10798	Initiate an aeronautical engineering activity	6	10	B
10799	Conclude an aeronautical engineering activity	6	15	B
10800	Control the rectification of aircraft defects	6	10	B
10801	Implement, monitor, and control legislative and enterprise requirements in the workplace Implement, monitor, and control legislative and enterprise demands in the aeronautical workplace	6	5	B
10802	Control the quality of aeronautical engineering production activities	6	15	B

Domain Aeronautical Engineering Quality Assurance

Id	Title	Level	Credit	Review Category
10807	Audit an aeronautical engineering maintenance activity	6	75	B
10997	Ensure the integrity of parts and materials for aircraft use	4	24	B

Domain Aeronautical Engineering Technical Support

Id	Title	Level	Credit	Review Category
10793	Control incoming technical information Control incoming aeronautical engineering technical information	3 4	6	B
10794	Evaluate incoming aeronautical engineering technical information	5	20	B
10795	Provide technical information and instructions Provide aeronautical engineering technical information and instructions	6	75	B

Id	Title	Level	Credit	Review Category
10796	Promulgate and control technical information and instructions 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

Domain Aircraft Painting

Id	Title	Level	Credit	Review Category
4013	Remove coating systems from aeronautical components by plastic media blasting	4	15	B
4014	Apply coating systems to aircraft and aeronautical equipment	4	25	B
4015	Remove coatings from aeronautical components using chemical paint removers	3	12	B