

Field Engineering and Technology**Review of *Infrastructure Civil Engineering* unit standards**

Subfield	Domain	ID
Civil Engineering	Civil Engineering - Asset Management	17291
	Infrastructure Asset Management	11429, 17305, 17308, 23589, 23590, 23591, 23592, 26155, 26156
Infrastructure Civil Engineering	Infrastructure Asset Management	18925, 18926, 18927, 18928, 18930, 29486

The Infrastructure ITO (Connexis) has completed the review of the unit standards listed above.

Date new versions published

May 2016

Planned review date

December 2020

Summary

The review of the unit standards listed above is part of the planned review cycle following the targeted review of qualifications administered by the Connexis. This review reflects changes that have occurred within the generic Infrastructure Asset Management sector and the Procurement Procedures sector of the engineering industry.

This extensive review was conducted by the Infrastructure Industry Governance Group and Working Groups who focussed on reviewing unit standards relating to the two new Infrastructure Asset Management qualifications. Stakeholder consultation included industry representatives from employers, Civil Contractors New Zealand, client sector and industry experts.

Each focus group concentrated on making sure that the levels and credits were appropriate and the content of the unit standards was current, relevant, achievable, accurate, and clear. As part of the review, all the unit standards were made available for comment on the Connexis website, and feedback was duly considered.

Main changes

- Titles of standards 11429, 18925, 18926, 18927, 18928 and 18930 have been updated to reflect the changes to outcomes and the evidence requirements that were broadened for wider industry.
- The credit values of standards 18926 and 18930 have increased.
- The explanatory notes on standards 18925, 18926, 18927, 18928 and 18930 have been updated to reflect the inclusion of government principles for procurement and the government rules for sourcing of procurement that apply. Additional changes have been made to reflect current industry requirements for the NZS.
- Unit standard 18926 has been included as a recommended standard for entry to standard 18927.
- Several standards have been reclassified from:

Civil Engineering > Infrastructure Asset Management to Infrastructure Civil Engineering > Infrastructure Asset Management.

- Standard 17291 has been reclassified from:
Civil Engineering > Civil Engineering - Asset Management to Infrastructure Civil Engineering > Infrastructure Asset Management.
- New unit standard 29486 was developed for developing the baseline knowledge of laws and guidelines applicable to the sector.

Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Subfield	Civil Engineering	6-8	Standard	23589, 23592	5
			Standard	11429, 17305, 17308, 23590, 23591, 26155, 26156	6

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 > Civil Engineering > Civil Engineering - Asset Management
Engineering and Technology > **Infrastructure Civil Engineering > Infrastructure Asset Management**

ID	Title	Level	Credit	Review Category
17291	Report civil engineering infrastructure asset condition and attribute data	3	8	B

Engineering and Technology > Civil Engineering > Infrastructure Asset Management
Engineering and Technology > **Infrastructure Civil Engineering > Infrastructure Asset Management**

ID	Title	Level	Credit	Review Category
11429	Develop, implement, and review an infrastructure asset management plan Contribute to infrastructure asset management planning	6	30	B
17305	Use optimised decision-making process for infrastructure asset management	6	15	B
17308	Conduct risk management in an infrastructure asset management context	6	15	B

ID	Title	Level	Credit	Review Category
23589	Explain process, and develop and measure levels of service, for infrastructure assets	5	10	B
23590	Demonstrate knowledge of infrastructure asset information management	6	10	B
23591	Demonstrate knowledge of financial and economic analysis for infrastructure asset management	6	15	B
23592	Undertake demand management analysis for infrastructure assets	5	10	B
26155	Form and manage a contract for an infrastructure asset	6	8	B
26156	Manage tendering for an infrastructure asset	6	2	B

Engineering and Technology >Infrastructure Civil Engineering > Infrastructure Asset Management

ID	Title	Level	Credit	Review Category
18925	Demonstrate knowledge of conditions of contract and tendering that comply with NZTA procurement procedures Demonstrate knowledge of conditions of contract and tendering in procurement	6	15	B
18926	Describe, compare, and select supplier selection methods using NZTA procurement procedures Plan a procurement activity in accordance with the organisational procurement strategy	6	10 20	B
18927	Prepare requests for proposal using NZTA procurement procedures Prepare RFX documents and conduct procurement processes	6	25	B
18928	Evaluate tenders using NZTA procurement procedures Evaluate tenders in accordance with government procurement requirements	6	20	B
18930	Apply ethical standards to the evaluation of tenders using NZTA procurement procedures Apply legal requirements, conditions of tendering, and ethical standards to tendering procedures	6	6 15	B
29486	Demonstrate knowledge and understanding of laws and standards applicable to infrastructure asset management	4	5	New