

The review of the unit standards listed above commenced in November 2005 and was carried out in conjunction with the Asset Management Technical Advisory Group (AMTAG) composed of asset management and other specialists from contract management companies, consulting firms, territorial authorities, and the National Asset Management Steering Group (NAMS). NAMS is the organisation that has been established by the industry in New Zealand with the role of leading, defining, and assisting to implement best practice for sustainable asset management. It has developed a series of best practice manuals and guidelines that have very much influenced the outcomes of this review. Reclassification of two of the unit standards into the Civil Engineering – Generic domain was approved by the Civil Sector Technical Advisory Group and AMTAG.

Demand for the unit standards to date has been very modest but it is anticipated that, with the alignment achieved in this review with legislative requirements for standards that reflect recognised best practice, the support of industry, and the anticipated status of the asset management diplomas in terms of professional recognition, their uptake will be greatly improved.

New unit standards developed in conjunction with this review are listed at the end of this report.

Main changes resulting from the review

- Reclassification of the unit standards 11429, 17305, and 17308 into the new domain Infrastructure Asset Management
- Reclassification of the unit standards 17298 and 17301 into the domain Civil Engineering – Generic, with subsequent modification of content to encompass all civil engineering as well as infrastructure asset management
- Change of title for all the Category B reviewed unit standards
- Increase in credit from 10 to 30 for unit standard 11429
- Increase in level from 5 to 6 for unit standard 17298
- Reduction in level from 6 to 5 for unit standard 17301
- Replacement of unit standards 17303 and 17304 by unit standard 23590
- Extensive revision of special notes sections to reflect InfraTrain house style, current regulatory framework and industry practice, and alignment with NAMS guidelines
- Simplification of unit standard 11429 performance criteria in terms of NAMS guidelines
- Merging of both elements in unit standard 17301
- Addition of an initial knowledge-based element in unit standard 17305
- Updating of performance criteria in unit standard 17308 to substitute 'industry best practice' (defined in special notes) for 'established procedures'.

Unit standards categorised as category C expire at the end of December 2008.

Impact on existing provider accreditations

None.

Impact on existing qualifications

Qualifications that contain the reviewed standards or classifications are tabled below.

Affected	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard
Not materially affected	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following InfraTrain qualifications are affected by the outcome of this review and are in the process of being reviewed.

Qualification title	Standard in the qualification
National Diploma in Civil Engineering – Asset Management (Tactical) (Level 6) [Ref: 0761]	11429, 17298, 17301, 17303, 17304, 17305, 17308
National Diploma in Civil Engineering – Asset Management (Strategic) (Level 7) [Ref: 0762]	17298, 17301
National Diploma in Civil Engineering [Ref: 0881]	11429

The following InfraTrain qualification is also affected by the outcome of this review. It has been decided however that it will be updated when it is next revised or reviewed.

Qualification title	Classification or Standard in the qualification
National Diploma in Civil Engineering – Asset Management (Operations) (Level 4) [Ref: 0760]	17298
National Certificate in General Contracting (Training and Assessment) [Ref: 1061]	Civil Engineering – Asset Management

Summary of main changes

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

Subfield Civil Engineering
Domain Civil Engineering – Asset Management
Infrastructure Asset Management

Id	Title	Level	Credit	Review Category
11429	Develop, implement, and review infrastructure life cycle asset management plans Develop, implement, and review an infrastructure asset management plan	6	10 30	B
17298	Work professionally within the civil engineering infrastructure asset management sector Work professionally within the civil engineering or asset management sector	5 6	6	B

Id	Title	Level	Credit	Review Category
17301	Apply ethical standards to civil engineering infrastructure asset management Apply professional body rules and ethics as a civil engineering or asset management practitioner	6 5	6	B
17303 and 17304 23590	Specify requirements for civil engineering infrastructure asset data management Analyse civil engineering infrastructure asset management data Demonstrate knowledge of infrastructure asset information management	6 6 5	6 8 10	C C
17305	Determine the optimal intervention option for a civil engineering infrastructure asset Use optimised decision-making process for infrastructure asset management	6	15	B
17308	Conduct risk management in a civil engineering infrastructure asset management context Conduct risk management in an infrastructure asset management context	6	15	B
23589	Explain process, and develop and measure levels of service, for infrastructure assets	5	10	New
23591	Demonstrate knowledge of financial and economic analysis for infrastructure asset management	6	15	New
23592	Undertake demand management analysis for infrastructure assets	5	10	New
23593	Manage tendering, and form and manage a contract, for an infrastructure asset	6	10	New