Field Engineering and Technology

Review of Civil Engineering - Generic unit standards

Subfield	Domain	ID
Civil Engineering	Civil Engineering - Generic	17298, 17301, 23410

InfraTrain New Zealand Ltd has completed the review of the unit standards listed above.

Date new versions published

November 2011

Planned review date

December 2016

Summary

These unit standards were reviewed as part of a project to develop the New Zealand Diploma in Engineering Practice (NZDEP). The review was carried out by a Diploma Lead Group, acting under delegation from the New Zealand Board for Engineering Diplomas (NZBED). The Diploma Lead Group was made up of industry training organisation (ITO) and New Zealand Institutes of Technology and Polytechnics (NZITP) representatives.

The reviewed unit standards were updated and carefully mapped to the Institution of Professional Engineers New Zealand Competence Standard for Engineering Technicians. The updated versions of the unit standards were developed through an extensive process which included consultation through Lead Group and individual ITO networks; including large, medium and small companies in the industry, workplace assessors, and ITO regional staff. New unit standards were developed for use in civil, electrical, and mechanical engineering.

Main changes

- Unit standards 17298, 17301, and 23410 were replaced by newly developed unit standards which meet the requirements of industry.
- Six additional unit standards were developed for the electrical and mechanical engineering sectors three for each sector.

Category C unit standards will expire at the end of December 2014

Impact on existing organisations with consent to assess

Current consent for			Consent extended to			
Nature of	Classification or ID	Level	Nature of Classification or ID L			
consent			consent			
Subfield	Civil Engineering	6+	Standards	27473	6	
				27474		
				27475		
				27476		
Subfield	Engineering	6+	Standard	27472	6	

Impact on Consent and Moderation Requirements (CMR)

The new unit standards will be listed on CMR 0234.

Impact on registered qualifications

Key to type of impact				
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 New Zealand Ltd qualifications are impacted by the outcome of this review and will be updated when they are reviewed 2014. The standards that generated the status *Affected* are listed below.

Ref	Qualification Title	ID
0760	National Certificate in Civil Engineering - Asset Management	17298
	(Operations) (Level 4)	
0761	National Diploma in Infrastructure Asset Management	17298, 17301
	(Tactical) (Level 6)	
0762	National Diploma in Civil Engineering - Asset Management	17298, 17301
	(Strategic) (Level 7)	
1292	National Diploma in Civil Engineering (Applied)	17298,17301, 23410

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

All changes are in **bold**.

Ke	y to review category
Α	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new
	version number
В	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID
	and a new version number
С	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 - Generic

Engineering and Technology > Engineering > Generic Engineering

ID .	Title	Level	Credit	Review
				Category
17298	Work professionally within the civil engineering or asset management sector	6	6	С
17301	Apply professional body rules and ethics as a civil engineering or asset management practitioner	5	6	С
27472	Demonstrate professional and ethical behaviour as an engineering technician	6	15	

Engineering and Technology > Civil Engineering > Civil Engineering - Generic Engineering and Technology > Infrastructure Civil Engineering > Generic

Infrastructure Civil Engineering

ID	Title	Level	Credit	Review Category
23410	Demonstrate competent practice as a civil engineering technician	6	120	С
27473	Identify and analyse well-defined civil engineering problems	6	15	
27474	Develop, implement, and evaluate solutions for well-defined civil engineering problems	6	15	
27475	Apply risk management to well-defined civil engineering problems	6	15	
27476	Demonstrate and apply competence as an engineering technician	6	60	

Engineering and Technology > Mechanical Engineering > Applied Principles of

Mechanical Engineering

ID	Title	Level	Credit	Review Category
27477	Develop, implement, and evaluate solutions for well-defined mechanical engineering problems	6	15	New
27478	Apply risk management to well-defined mechanical engineering problems	6	15	New
27479	Identify and analyse well-defined mechanical engineering problems	6	15	New

Engineering and Technology > Electrical Engineering > Electrotechnology

ID	Title	Level	Credit	Review Category
27480	Develop, implement, and evaluate solutions for well-defined electrical engineering problems	6	15	New
27481	Apply risk management to well-defined electrical engineering problems	6	15	New
27482	Identify and analyse well-defined electrical engineering problems	6	15	New