

Field Engineering and Technology**Review of *Civil Construction Works* and *Civil Plant Operation* unit standards**

Subfield	Domain	ID
Civil Works and Services	Civil Construction Works	23283, 23288
Civil Plant Operation and Management	Civil Plant Operation	6467, 23289

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

Date new versions published

July 2011

Planned review date

December 2016

Summary

The planned review of the National Certificate in Civil Works and Services (Road Opening - Trenching) with optional strands in Electricity Supply, Gas Distribution, and Water Services [Ref: 1000], and the National Certificate in Civil Works and Services (Road Opening - Site Co-ordination) [Ref: 1001] required detailed consideration of the purpose and structure of the current qualifications, and unit standards as a number were due to expire, and others were no longer fit for purpose.

An Industry Advisory Group (IAG) was formed and the first meeting occurred on 3 August 2010. This was a strategic meeting focusing on a skills analysis to determine the purpose (graduate profile), the validity of the qualifications in their current form, qualification pathways and assessment.

The IAG made recommendations for standards to be revised, new standards to be developed, the design of a new qualification for excavation and reinstatement (E&R) and a qualification pathway to be tabled with the Infrastructure Pipelaying (IPL) and Water Reticulation (WR) joint review with InfraTrain and Agriculture Industry Training Organisation (AglTO), which will limit the substantial overlap evident in the current qualifications.

A further two writing group meetings were held in September and December 2010 to match the skills from the graduate profile to unit standards; to develop new units standards where no units were available, and revise those that required updating.

Once drafted, the unit standards and proposed qualification structure were distributed to the IAG and to wider industry for feedback between February and April 2011; and on the 20 April 2011 a final endorsement meeting was held with the IAG which took into account feedback from wider industry.

Main changes

- Standards 23283, 23288 were transferred from the Civil Construction Works domain to the Generic Infrastructure Works domain.
- Standard 23289 was transferred from the Civil Plant Operations domain to the Generic Infrastructure Works domain.
- All titles were amended to reference the new domains and outcomes.
- Standard 23289 credit total increased from 4 to 6 to reflect the degree of applied knowledge.
- Purpose statements, explanatory notes, outcomes and evidence requirements were updated.
- New standards 27500-27502 were developed to cover knowledge and skills required for trench compaction, and trench protection and support systems.

The category C unit standard will expire at the end of December 2013

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 Works and Services	3+	Standards	23283, 23288	3
Subfield	Civil Plant Operation and Management	3+	Standard	23289	3
				27500	2
Domain	Civil Construction Works	3+	Standards	23283, 23288	3
Domain	Civil Plant Operation	3+	Standard	23289	3
				27500	2
Standard	6467	2	Standard	27500	2

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 qualifications are impacted by the outcome of this review and will be updated when they are reviewed from 2010 to 2014. The classifications and/or standards that generated the status *Affected* are listed in **bold**.

Ref	Qualification Title	Classification or ID
1282	National Certificate in Infrastructure Works (Infrastructure Pipelaying) with an optional strand in Gas Distribution Pipelaying	6467 , 23283, 23288, 23289
1326	National Certificate in Civil Construction Works with strands in Concrete Kerb and Channel; Concrete Work; Culverts and Drainage Systems; Interlocking Paving; Retaining Structures; Road Construction; Road Maintenance; Road Safety Barrier; Roadside Amenities, and Traffic Signage	6467
1660	National Certificate in Infrastructure Works (Level 2) with optional strands in Earthworks, Pavement Surfacing, Roads, Rural Contracting, and Utilities	6467

The following table identifies qualifications developed by other SSBs that are impacted by the outcome of this review. The SSBs have been advised that the qualifications require revision. The classifications and/or standards that generated the status *Affected* are listed in **bold**.

Ref	Qualification Title	Classification or ID	SSB Name
0962	National Certificate in Water Reticulation (Service Person) (Level 3) with strands in Water, and Wastewater	6467	Agriculture Industry Training Organisation
1022	National Certificate in Gas Network Construction (Service Laying) (Level 3)	6467 , 23283	NZ Extractive Industry Training Organisation

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 Plant Operation and Management

Engineering and Technology > Infrastructure Works

ID	Domain	Title	Level	Credit	Review Category
6467	Civil Plant Operation	Operate a plate compactor on civil construction materials	2	4	C
27500	Infrastructure Works Equipment	Operate trench compaction equipment for infrastructure works	2	4	New

ID	Domain	Title	Level	Credit	Review Category
23289	Civil Plant Operation Generic Infrastructure Works	Operate pump systems for dewatering in civil construction	3	4	B
		Describe and operate pump systems for dewatering in infrastructure works	3	6	

Engineering and Technology > Civil Works and Services

Engineering and Technology > Infrastructure Works

ID	Domain	Title	Level	Credit	Review Category
23283	Civil Construction Works Generic Infrastructure Works	Open roads, excavate, backfill and compact, and prepare for surface reinstatement	3	10	B
		Excavate, backfill and compact, and prepare for surface reinstatement for infrastructure works	3	10	
23288	Civil Construction Works Generic Infrastructure Works	Demonstrate knowledge of single point groundwater control for infrastructure pipelaying	3	2	B
		Explain single point groundwater control for an infrastructure works excavation	3	2	

Engineering and Technology > Infrastructure Works > Generic Infrastructure Works

ID	Title	Level	Credit	Review Category
27501	Demonstrate knowledge of protection and support systems for excavation on an infrastructure works site	3	2	New
27502	Place and remove protection and support systems for excavation on an infrastructure works site	3	10	New