

Field Engineering and Technology**Review of *Irrigation* unit standards**

Subfield	Domain	ID
Water Industry	Irrigation	25139-25141, 25135, 20956-20960, 25137, 25138, 20958

The Primary ITO has completed the review of the unit standards listed above.

Date new versions published

August 2015

Planned review date

December 2020

Summary

As a result of the Targeted Review of Qualifications process, the Primary Industry Training Organisation (Primary ITO) has reviewed a number of unit standards to better reflect the requirements of the outcomes listed in the new qualifications.

It was identified that a number of unit standards required replacement, as they were no longer fit for purpose.

Main changes

- New unit standards have been developed to meet the industry needs as reflected in the New Zealand qualification's graduate profile outcomes.
- New unit standards replace existing unit standards in order to better reflect the unit standard outcomes and credits adjusted to reflect learning and assessment.
- Outcomes, evidence requirements, ranges and/or explanatory notes were developed to ensure delivery and assessment consistency.

The last date of assessment for Category C unit standards is 31 December 2020, after which the standards will be designated as expired.

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 > Water Industry > Irrigation

ID	Title	Level	Credit	Review Category
20956	Determine hydraulic parameters for an irrigation system	5	8	C
25135	Plan and design, and prepare a design report and drawings, for irrigation systems	5	30	C
25139	Demonstrate knowledge of pumps and motors, and their selection, for irrigation systems	5	15	C
25140	Determine irrigation system hydraulic gradeline, surge implications, and performance, and describe speciality valves	5	15	C
25141	Describe control systems, pump starters, and electricity, for irrigation systems	5	10	C
28932	Design and plan an irrigation system	5	75	
25137	Describe irrigation system installation requirements, and prepare, and record information for, a commissioning plan	4	10	C
25138	Develop an operation and maintenance instructions manual for irrigation systems	5	8	C
28933	Prepare the design and delivery documentation for an irrigation system	5	15	
20959*	Carry out on-site evaluations of irrigation systems	4	10	C
28925	Carry out an irrigation system performance assessment	4	25	
20957*	Demonstrate knowledge of efficiency statistics, calculate KPIs and determine irrigation requirements	4	6	C
20959*	Carry out on-site evaluations of irrigation systems	4	10	C
20960	Analyse on-site irrigation system evaluation data, and prepare reports	5	10	C
28926	Compare and interpret a specific irrigation system's performance against the system specifications, and report findings	4	15	

ID	Title	Level	Credit	Review Category
20957*	Demonstrate knowledge of efficiency statistics, calculate KPIs and determine irrigation requirements	4	6	C
20958	Demonstrate knowledge of water, and determine application rates, for irrigation	4	6	C
28935	Carry out irrigation system scheduling on a daily and seasonal basis for an irrigation site	4	5	
28934	Determine irrigation system requirements for a commercial enterprise	4	10	New
28936	Manage the planning, operation and maintenance of an irrigation system	4	25	New

* Unit standard appears twice within this table