

Field Planning and Construction

Review of *Surveying* unit standards

Subfield	Domain	ID
Surveying	Geodetic Surveying	23859, 23860
	Geographic Information Systems and Cartography	23863
	Subdivisional design	29410, 29411
	Survey - Land Administration and Applied Resource Management	8782, 8784, 8785
	Survey Practice	8800, 23880, 29400-29409, 29412
	Titles and Survey Compliance	23885

Connexis has completed the review of the unit standards listed above.

Date new versions published

February 2021

Planned review date

December 2025

Summary

These unit standards were reviewed as part of qualification reviews for the New Zealand Certificate in Surveying (Level 4) [Ref: 2957] and the New Zealand Diploma in Surveying (Level 6) [Ref: 2960] which occurred from June – September 2020. Consultation occurred in June, July and September 2020 with surveying stakeholders, including those holding consent to assess against these unit standards.

Main changes

- Guidance information was updated in all standards to ensure currency with industry knowledge and practice.
- Unit standards 29402 and 29408 were updated to ensure currency with industry knowledge and practice. Specifically, the term GPS was replaced with GNSS, and two range statements were reworded for clarity.
- Unit standard 29404 was condensed to one outcome with subsequent change in title, to clarify the intent of the unit standard.
- Sixteen unit standards previously used in the diploma programme were designated expiring without replacement because of low usage and confirmation they were not required for providers' programmes.

Category D unit standards will expire at the end of December 2022

The last date for assessment of superseded versions of Category B unit standards is December 2022

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

Planning and Construction > Surveying > Geodetic Surveying

ID	Title	Level	Credit	Review Category
23859	Demonstrate knowledge of geodetic reference systems and describe the New Zealand geodetic datums	6	5	D
23860	Demonstrate knowledge of, and calculate on, map projections	6	5	D

Planning and Construction > Surveying > Geographic Information Systems and Cartography

ID	Title	Level	Credit	Review Category
23863	Demonstrate knowledge of spatial information systems	5	6	D

Planning and Construction > Surveying > Subdivisional Design

ID	Title	Level	Credit	Review Category
29410	Prepare subdivision plans and a resource consent application in a surveying context	6	20	D
29411	Design infrastructure and services for subdivision construction works approvals	6	20	D

Planning and Construction > Surveying > Survey - Land Administration and Applied Resource Management

ID	Title	Level	Credit	Review Category
8782	Demonstrate knowledge of land legislation and land development in New Zealand in a surveying context	5	10	D
8784	Demonstrate knowledge of the New Zealand surveying system	5	7	D
8785	Demonstrate knowledge of legislation as it relates to Māori land and survey practice	4	3	D

Planning and Construction > Surveying > Survey Practice

ID	Title	Level	Credit	Review Category
8800	Apply mathematics to surveying	4	15	D
23880	Explain and use the Global Positioning System (GPS) for survey practice	5	10	D
29400	Demonstrate knowledge of the purpose and application of surveying Identify and explain the purpose and application of surveying	4	3	B
29401	Demonstrate knowledge of and apply safe work practices when undertaking surveying operations	4	5	B
29402	Demonstrate knowledge of measurement in surveying	4	14	B
29403	Prepare for and undertake a topographical survey	5	10	D

ID	Title	Level	Credit	Review Category
29404	Demonstrate knowledge of surveying technology Demonstrate knowledge of surveying instruments, software and firmware	4	5	B
29405	Prepare for and undertake a cadastral survey	6	20	D
29406	Set up, check calibration and maintain surveying equipment	4	15	B
29407	Prepare for and undertake an engineering survey	6	20	D
29408	Undertake survey measurement tasks and checks	4	30	B
29409	Demonstrate knowledge of height datums and global navigation satellite system for geodetic surveying	6	10	D
29412	Demonstrate knowledge of surveying mathematical principles	3	15	D

Planning and Construction > Surveying > Titles and Survey Compliance

ID	Title	Level	Credit	Review Category
23885	Create an e-survey for a subdivision	5	15	D