

Change report for the review of Energy and Chemical New Zealand Qualifications

Reviewed qualifications

[Ref]	Version	Qualification title	Level	Credits
2305	1	New Zealand Certificate in Energy and Chemical Operations (Plant and Machinery) (Level 3)	3	60
2306	1	New Zealand Certificate in Energy and Chemical Operations (Boiler Operation) (Level 3)	3	50
2307	1	New Zealand Certificate in Energy and Chemical Field Operations (Level 4) with strands in Process Plant Equipment, Steam Plant, Geothermal Operation, Petrochemical Operation, Petrochemical Station, and Petrochemical Transfer and Storage	4	60-90
2308	1	New Zealand Certificate in Energy and Chemical Plant Control Room Operations (Level 5) with strands in Chemical Plant, Steam Generation Plant, and Plant Outage Coordination	5	110-120

Review information

Qualification Developer	Primary ITO
Reason for the review	Scheduled 5 yearly review
Review date	October 2019
Outcome date	31 October 2024
Next review date	31 October 2024

Summary of review and consultation process

Expressions of interest were sought in March 2019 from stakeholders who had an interest in each of the sectors that represented energy and chemical operations. 85 industry representatives were contacted.

Members of the External Working Group (EWG) were selected and subsequently organised into Petrochemical and Energy sectors. Meetings were then held by the individual groups from May to July 2019 to review, consult upon and update content. The final versions were approved by the entire EWG in August 2019.

Main changes resulting from the review

The New Zealand Certificate in Energy and Chemical Operations (Plant and Machinery) (Level 3) [Ref: 2305] and the New Zealand Certificate in Energy and Chemical Operations (Boiler Operations) (Level 3) [Ref: 2306] were replaced by the New Zealand Certificate in Energy and Chemical Process Operations (Plant and Machinery) with an optional strand in Boiler Operation (Level 3) [Ref: 4128].

- Feedback confirmed that all trainees should complete the learning and assessment required to operate plant and machinery prior to operating a boiler.
- Overlap between two Level 3 qualifications was removed in the replacement qualification.

New Zealand Certificate in Energy and Chemical Operations (Level 4) with strands in Process Plant Equipment, Steam Plant, Geothermal Operation, Petrochemical Station, Petrochemical Operation, Petrochemical Transfer and Storage [Ref: 2307].

- Process Plant strand replaced by new strands – Chemical Plant Operation strand, Gas Turbine Operation strand, Steam Turbine Operation strand as each strand which were previously contexts, contain specific and specialist skills and knowledge that should be recognised in the qualification title.
- Steam Plant strand title changed to Advanced Steam Generation Plant Operation strand.
- Petrochemical Station strand was removed as it is no longer required.
- Graduate profile outcome statements were updated for clarity and currency.
- Gas or steam turbine operation were added as optional strands as a turbine is always associated with the overall plant or process in an advanced steam plant, chemical plant, geothermal plant or petrochemical process, and does not exist in isolation.
- Credits were adjusted for all strands.

New Zealand Certificate in Energy and Chemical Plant Control Room Operations (Level 5) with strands in Steam Generation Plant, Chemical Plant, Plant Outage Coordination [Ref: 2308].

- Strands were removed as learning at Level 5 is generic across all types of energy and chemical plants.
- Graduate profile outcome statements were updated for clarity and currency.
- Total qualification credits reduced to 90 credits.

Review outcome

Reference	Version	Reviewed qualification	Outcome category	New qualification details/version (if applicable)
2305	2	New Zealand Certificate in Energy and Chemical Operations (Plant and Machinery) (Level 3)	<i>C-New replacement qualification</i>	New Zealand Certificate in Energy and Chemical Process Operations (Level 3) with optional strand in Boiler Operations [Ref: 4128]
2306	2	New Zealand Certificate in Energy and Chemical Operation (Boiler Operation) (Level 3)	<i>C-New replacement qualification</i>	
2307	2	New Zealand Certificate in Energy and Chemical Field Operations (Level 4) with strands in New Zealand Certificate in Energy and Chemical Process Operations (Level 4) with strands in Advanced Steam Generation Plant Operation, Chemical Plant Operation, Geothermal Plant Operation, Petrochemical Plant Operation, Petrochemical Transfer and Storage (with optional strands in Gas Turbine Operation, and Steam Turbine Operation)	<i>B-New version of qualification</i>	2307-2
2308	2	New Zealand Certificate in Energy and Chemical Process Operations (Level 5)	<i>B-New version of qualification</i>	2308-2

Qualification review outcome categories

Outcome	Result	Category
No changes are identified to the qualification	Qualification version number and NZQF ID remain the same. New review date is required.	A

Minor changes are identified to the qualification	New version of qualification is required (NZQF ID remains the same). New review date is required.	B
Significant changes are required to the qualification	New replacement qualification is required with a new NZQF ID. The existing qualification will expire.	C
The qualification is no longer required by industry	The qualification will expire with no replacement.	D

Transition information

Reference	Version	Qualification title	Last date of entry*	Last date of assessment
2305	1	New Zealand Certificate in Energy and Chemical Operations (Plant and Machinery) (Level 3)	31 Dec 2022	31 Dec 2023
2306	1	New Zealand Certificate in Energy and Chemical Operations (Boiler Operation) (Level 3)	31 Dec 2022	31 Dec 2023
2307	1	New Zealand Certificate in Energy and Chemical Field Operations (Level 4) with strands in Process Plant Equipment, Steam Plant, Geothermal Plant and Process Operation, Petrochemical Plant and Process Operation, Petrochemical Station, and Petrochemical Transfer and Storage	N/A	31 Dec 2023
2308	1	New Zealand Certificate in Energy and Chemical Plant Control Room Operations (Level 5) with strands in Chemical Plant, Steam Generation Plant, and Plant Outage Coordination	N/A	31 Dec 2023

**only required for outcome category C or D*