

FIELD ENGINEERING AND TECHNOLOGY**Review of *Hot Dip Galvanizing* unit standards**

Subfield	Domain	Id
Hot Dip Galvanizing	Hot Dip Galvanizing Operations	21163, 21164, 21166-21173, 21175-21178, 21181-21184
	Hot Dip Galvanizing Safety	21162, 21165, 21174, 21179, 21180, 21185

The NZ Extractive Industries Training Organisation has completed the review of the unit standards listed above.

Date new versions published

January 2009

Planned review date

December 2013

Summary of review and consultation process

Feedback from industry, moderation, and assessors determined the need for a review of these unit standards. The review took into account the low usage of these unit standards with a view to restructuring the content to make them more achievable for different groups in the industry. An industry advisory group was formed in order to update the unit standards, identify gaps, and endorse the completed unit standards.

Main changes resulting from the review

- Titles have been amended to bring them into line with current industry terminology and the elements.
- Legislation, codes of practice, standards, and guidelines have been updated.
- Prerequisites have been updated.
- The level for unit standard 21185 has decreased.
- The credits have decreased in unit standard 21164.
- Technical terminology has been updated in the elements and performance criteria.
- Unit standard 21162 has been designated as expiring as it no longer meets the needs of industry.
- Unit standard 21181 has been replaced by unit standard 25434 and the credits have increased.
- Unit standard 21179 has been replaced by standard 25433.
- New unit standards 25130-25134 have been developed.

Unit standards categorised as category C or D will expire at the end of December 2010.

Impact on existing provider accreditations

None.

Impact on Accreditation and Moderation Action Plan (AMAP)

None.

Impact on existing qualifications

The following NZ Extractive Industries Training Organisation qualifications are affected by the outcome of this review and will be reviewed in 2008. The standards that generated the affected status are in **bold**.

Qualification title	Standard in the qualification
National Certificate in Hot Dip Galvanizing (Introductory Skills) (Level 2) [Ref: 1174]	21163, 21164 , 21165
National Certificate in Hot Dip Galvanizing (Operations) (Level 3) [Ref: 1175]	21162 , 21167-21173, 21176, 21177
National Certificate in Hot Dip Galvanizing (Supervision) (Level 4) [Ref: 1176]	21175, 21178, 21179 , 21180, 21181 , 21182, 21184, 21185

Review Categories and changes to 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

Subfield Hot Dip Galvanizing
Domain Hot Dip Galvanizing Operations

Id	Title	Level	Credit	Review Category
21163	Demonstrate basic understanding of the hot dip galvanizing process Demonstrate basic knowledge of the hot dip galvanizing process	2	1	B
21164	Jig metal components for hot dip galvanizing	2	6 3	B
21166	Inspect and fettle metal components after hot dip galvanizing	2	5	B
21167	Degrease metal components at a hot dip galvanizing facility Demonstrate knowledge of the degreasing process and degrease metal components at a hot dip galvanizing facility	3	6	B
21168	Pickle metal components at a hot dip galvanizing facility Demonstrate knowledge of the pickling process and pickle metal components at a hot dip galvanizing facility	3	8	B
21169	Rinse metal components at a hot dip galvanizing facility Demonstrate knowledge of the rinsing process and rinse metal components at a hot dip galvanizing facility	3	1	B

Id	Title	Level	Credit	Review Category
21170	Flux metal components at a hot dip galvanizing facility Demonstrate knowledge of the fluxing process and flux metal components at a hot dip galvanizing facility	3	3	B
21171	Galvanize and quench metal components at a hot dip galvanizing facility Demonstrate knowledge of zinc coating and galvanize and quench metal components at a hot dip galvanizing facility	3	11	B
21172	Remove dross and ash from a galvanizing kettle at a hot dip galvanizing facility Demonstrate knowledge of removal, and remove dross and ash from a galvanizing kettle at a hot dip galvanizing facility	3	2	B
21173	Hot dip galvanize and centrifuge small metal components Demonstrate knowledge of and hot dip galvanize and centrifuge small metal components	3	13	B
21175	Schedule workflow at a hot dip galvanizing facility Demonstrate knowledge of workflow and schedule workflow for galvanizing at a hot dip galvanizing facility	4	20	B
21176	Measure thickness of hot dip galvanized coatings Describe the process of measuring zinc coating and measure thickness of hot dip galvanized zinc coatings	3	2	B
21177	Weigh items at a hot dip galvanizing facility Describe the reasons for weighing, and weigh items at a hot dip galvanizing facility	3	2	B
21178	Recover objects from preparation bath and galvanizing kettle Recover an object from a preparation tank and a galvanizing kettle	3	3	B
21181	Assist with emptying a zinc kettle at a hot dip galvanizing facility 25434 Plan for and manage the emptying of a zinc kettle at a hot dip galvanizing facility	4	4	C
21182	Supervise quality requirements at a hot dip galvanizing facility Supervise quality management at a hot dip galvanizing facility	4	6	B
21183	Demonstrate knowledge of hot dip galvanizing metallurgy	4	5	B
21184	Undertake supervisor's duties at a hot dip galvanizing facility Plan and supervise operations, and supervise staff and equipment maintenance at a hot dip galvanizing facility	4	20	B

Domain		Hot Dip Galvanizing Safety		
Id	Title	Level	Credit	Review Category
21162	Demonstrate knowledge of health and safety at a hot dip galvanizing facility	2	10	D
21165	Demonstrate basic understanding of chemicals used at a hot dip galvanizing facility Demonstrate basic knowledge of chemicals used at a hot dip galvanizing facility	2	2	B
21174	Demonstrate knowledge of hot dip galvanizing discharges and waste	3	10	B
21179 25433	Manage chemicals at a hot dip galvanizing facility Manage chemicals at a hot dip galvanizing facility	4 4	15 15	C
21180	Supervise health and safety and assist in compliance requirements at a hot dip galvanizing facility Demonstrate knowledge of and supervise health and safety at a hot dip galvanizing facility	4	15	B
21185	Respond to temperature alarm at a hot dip galvanizing facility	4 3	1	B
25130	Describe hazards, safety and emergency procedures, and exhibit safe working practices at a hot dip galvanizing facility	2	4	New
25131	Describe potential environmental effects and methods of mitigation at a hot dip galvanizing facility	2	2	New
25132	Explain environmental regulatory requirements relating to a hot dip galvanizing facility	4	2	New
25133	Demonstrate knowledge of venting and draining for hot dip galvanizing	3	3	New
25134	Respond to an accidental emission or spill incident at a hot dip galvanizing facility	3	4	New