

## National Certificate in Hot Dip Galvanizing (Operations) (Level 3)

**Level** 3

**Credits** 84

### Purpose

The National Certificate in Hot Dip Galvanizing (Operations) (Level 3) is designed for people working as operators in the hot dip galvanizing industry.

Holders of this qualification are able to carry out the hot dip galvanizing process, including degreasing, pickling, fluxing, hot dip galvanizing, zinc coating and quenching, removal of dross and ash, and weighing metal components.

The compulsory section recognises knowledge and skills required for the hot dip galvanizing process, hazard identification and risk assessment, Hazardous Substances and New Organisms (HSNO) Act 1996 relevant to approved handlers, safety and emergency procedures, discharge and waste, first aid, customer service, pendant controlled overhead crane operation, communication skills, and safe working practices.

Elective 1 provides choices relevant to the candidate's workplace and their work role. These include working in a confined space, working in extremes of temperature, finishing galvanized items, loading and unloading a goods service vehicle, and the despatch of goods.

Elective 2 provides opportunities for employers and employees to select standards from other areas of the National Qualifications Framework that meet the specific requirements of the enterprise.

This qualification builds on the National Certificate in Hot Dip Galvanizing (Introductory Skills) (Level 2) [Ref: 1174] and leads to the National Certificate in Hot Dip Galvanizing (Supervision) (Level 4) [Ref: 1176] and/or the National Certificate in Manufacturing (Metal and Related Products) (Level 3) [Ref: 1387] and/or the National Certificate in Occupational Health and Safety (Workplace Safety) (Level 3) [Ref: 0801].

### Credit Range

	Compulsory	Elective 1	Elective 2
Level 1 credits	1	-	-
Level 2 credits	17	0-4	-
Level 3 or above credits	46	11-15	5
Minimum totals	64	15	5

## Requirements for Award of Qualification

### Award of NQF Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided in section 7 of the New Zealand Qualifications Authority (NZQA) Rules and Procedures publications available at <http://www.nzqa.govt.nz/ncea/acrp/index.html>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

### Summary of Requirements

- Compulsory standards
- Elective 1 – A minimum of 15 credits as specified
- Elective 2 – A minimum of 5 credits as specified

### Detailed Requirements

#### Compulsory

The following standards are required

#### Engineering and Technology > Hot Dip Galvanizing > Hot Dip Galvanizing Operations

ID	Title	Level	Credit
21168	Demonstrate knowledge of the pickling process and pickle metal components at a hot dip galvanizing facility	3	8
21170	Demonstrate knowledge of the fluxing process and flux metal components at a hot dip galvanizing facility	3	3
21171	Demonstrate knowledge of zinc coating and galvanize and quench metal components at a hot dip galvanizing facility	3	11
21172	Demonstrate knowledge of removal, and remove dross and ash from a galvanizing kettle at a hot dip galvanizing facility	3	2

#### Engineering and Technology > Hot Dip Galvanizing > Hot Dip Galvanizing Safety

ID	Title	Level	Credit
21174	Demonstrate knowledge of hot dip galvanizing discharges and waste	3	10
25130	Describe hazards, safety and emergency procedures, and exhibit safe working practices at a hot dip galvanizing facility	2	4

## Health &gt; Health Studies &gt; Core Health

ID	Title	Level	Credit
6400	Manage first aid in emergency situations	3	2
6401	Provide first aid	2	1
6402	Provide resuscitation level 2	1	1

## Health &gt; Occupational Health and Safety &gt; Occupational Health and Safety Practice

ID	Title	Level	Credit
17602	Apply hazard identification and risk assessment procedures in the workplace	3	4
20645	Describe the requirements of the HSNO Act 1996 relevant to approved handlers	3	3

## Humanities &gt; Communication Skills &gt; Interpersonal Communications

ID	Title	Level	Credit
1312	Give oral instructions in the workplace	3	3

## Service Sector &gt; Cranes &gt; Crane Operation

ID	Title	Level	Credit
3800	Operate a pendant controlled overhead crane and lift and place regular loads	2	10

## Service Sector &gt; Service Sector Skills &gt; Service Sector - Core Skills

ID	Title	Level	Credit
57	Provide customer service in given situations	2	2

**Elective 1**

A minimum of 15 credits

## Engineering and Technology &gt; Hot Dip Galvanizing &gt; Hot Dip Galvanizing Operations

ID	Title	Level	Credit
21167	Demonstrate knowledge of the degreasing process and degrease metal components at a hot dip galvanizing facility	3	6
21169	Demonstrate knowledge of the rinsing process and rinse metal components at a hot dip galvanizing facility	3	1
21173	Demonstrate knowledge of and hot dip galvanize and centrifuge small metal components	3	13
21176	Describe the process of measuring zinc coating and measure thickness of hot dip galvanized zinc coatings	3	2
21177	Describe the reasons for weighing, and weigh items at a hot dip galvanizing facility	3	2

## Health &gt; Occupational Health and Safety &gt; Occupational Health and Safety Practice

ID	Title	Level	Credit
17585	Demonstrate knowledge of working safely in extremes of temperature	3	4
18426	Demonstrate knowledge of hazards associated with confined space	3	4

## Manufacturing &gt; Supply Chain Management &gt; Materials Management

ID	Title	Level	Credit
17248	Dispatch goods and/or materials from a manufacturing or industrial site	3	6

## Service Sector &gt; Commercial Road Transport &gt; Goods Service

ID	Title	Level	Credit
1753	Load and unload a goods service vehicle	2	4

**Elective 2**

A minimum of 5 credits at Level 3 or above  
From anywhere on the NQF

**Transition Arrangements****Version 2**

Version 2 was issued following review of the Hot Dip Galvanizing standards, which included the development of new standards.

## Changes to structure and content

- total credits increased from 82 to 84
- standard 25130 has been added to the compulsory section
- standard 6400 has been moved from the elective section to the compulsory section
- standard 21162 has been removed from the compulsory section
- elective 2 has been added
- titles of Hot Dip Galvanizing Operations standards have been updated.

For detailed information see [Review Summaries](#) on the NZQA website.

People currently working towards version 1 of this qualification may either complete the requirements for that version or transfer their results to this version of the qualification.

It is the intention of the EXITO that no existing candidate is disadvantaged by these arrangements. Any person who considers they have been disadvantaged is requested to contact the EXITO at the address below.

## NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	June 2005	December 2011
Review	2	June 2009	N/A

### Standard Setting Body

NZ Extractive Industries Training Organisation  
PO Box 2623  
Christchurch 8140

Telephone 03 964 4710  
Email [info@exito.org.nz](mailto:info@exito.org.nz)

### Planned Review

Any person or organisation may contribute to the review of this qualification by sending feedback to the standard setting body at the above address.

Next Review	2014
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### Other standard setting bodies whose standards are included in the qualification

ElectroTechnology Industry Training Organisation  
New Zealand Industry Training Organisation  
NZQA  
Opportunity – The Training Organisation  
Tranzqual ITO

### Certification

This certificate will display the logos of NZQA, the NZ Extractive Industries Training Organisation and the accredited organisation.

## Classification

This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

NQF Classification		NZSCED	
Code	Description	Code	Description
420	Engineering and Technology > Hot Dip Galvanizing	030399	Engineering and Related Technologies > Process and Resources Engineering > Process and Resources Engineering not elsewhere classified

### Quality Management Systems

Providers and Industry Training Organisations must be accredited by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.