

Field Engineering and Technology

**Review, and Revision and Rollover and change of standard setting responsibility of
Industrial Coatings unit standards**

Subfield	Domain	ID
Industrial Coatings	Abrasive Blasting	17520-17521, 17523-17524, 17525 , 17528
	Hot Dip Galvanizing	21163, 21165, 21172, 21174-21176, 21178, 21180, 21182-21185, 25130-25134, 25433-25434, 28439- 28462
	Protective Coatings	13444, 17522, 17526-17527 , 17529, 17531 , 17532, 17537 , 17538-17539, 17540 , 17541-17542, 17543-17544, 17546, 17547 , 23539 , 27776-27777, 28773-28777

MITO New Zealand Incorporated (MITO) and Competenz have reviewed the unit standards listed above to facilitate the change in standard setting body responsibility from MITO to Competenz.

Unit standards that have changed in standard setting body responsibility are in **bold** and *italics*. All other unit standards have been reviewed.

Date new versions published

December 2018

Planned review date

December 2021

Summary

In October 2018, Competenz gained gazetted coverage for the protective coatings industry. Accordingly, MITO and Competenz reviewed the unit standards in the Industrial Coatings subfield with the following outcomes:

- (1) For those unit standards Competenz intend to maintain, the unit standards were revised and rolled over with the transfer of standard setting responsibility.
- (2) Unit standards which Competenz do not intend to use were set to expiring, and will remain with MITO as the SSB until expiry. The expiry date for these standards is 31 December 2019.

Main changes

- Unit standards 17525, 17526, 17527, 17531, 17537, 17540, 17547 and 23539 transferred standard setting body responsibility from MITO to Competenz. As a result, the following changes were made:
 - these standards were reclassified and will now be listed under Manufacturing > Manufacturing Skills > Manufacturing Processes.
 - Planned review date was extended from December 2019 to December 2021.
 - the standards are now covered by CMR 0013.
 - Guidance information section were updated.
- The remaining unit standards in the Industrial Coatings subfield will expire and not be replaced.

Category D unit standards will expire at the end of December 2019

Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Domain	Abrasive Blasting	6	Standard	17525	3
Domain	Protective Coating	6	Standards	17527, 17537, 17547	2
			Standards	17526, 17531, 17540, 23539	3

Impact on Consent and Moderation Requirements (CMR)

The unit standards that were revised and rolled over as a result of the change in standard setting body responsibility were transferred from CMR 0114 to CMR 0013. Both CMR documents were updated to reflect this transfer.

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

Revised, rolled over and transferred standards

Engineering and Technology > Industrial Coatings > Abrasive Blasting
Manufacturing > Manufacturing Skills > Manufacturing Processes

ID	Title	Level	Credit
17525	Demonstrate knowledge of and operate abrasive blast pot	3	8

Engineering and Technology > Industrial Coatings > Protective Coatings
Manufacturing > Manufacturing Skills > Manufacturing Processes

ID	Title	Level	Credit
17526	Demonstrate knowledge of and operation low-pressure water blaster for blaster coating operations	3	4
17527	Demonstrate knowledge of and prepare surfaces for protective coating application	2	4
17531	Demonstrate basic knowledge of abrasive blasting and protective coating	3	6
17537	Work safely under supervision in blaster coating operations	2	4
17540	Prepare for and apply wet protective coatings under supervision	3	6
17547	Demonstrate knowledge of health and safety for blaster coating operations	2	5
23539	Perform pre-start checks, use, and shut down a compressor for blaster coating operations	3	2

Reviewed unit standards

Engineering and Technology > Industrial Coatings > Abrasive Blasting

ID	Title	Level	Credit	Review Category
17520	Abrasive blast inside a blast booth	3	4	D
17521	Abrasive blast a fixed structure or oversize plant at an exterior site	3	4	D
17523	Demonstrate knowledge of abrasive blasting media	2	4	D
17524	Demonstrate knowledge of wet abrasive blasting	3	4	D
17528	Demonstrate knowledge of, operate, and maintain a vacuum blaster for blaster coating operations	3	4	D

Engineering and Technology > Industrial Coatings > Hot Dip Galvanizing

ID	Title	Level	Credit	Review Category
21163	Demonstrate basic knowledge of the hot dip galvanising process	2	1	D
21165	Demonstrate basic knowledge of chemicals used at a hot dip galvanising facility	2	2	D
21172	Demonstrate knowledge of removal, and remove dross and ash from a galvanising kettle at a hot dip galvanising facility	3	2	D
21174	Demonstrate knowledge of hot dip galvanizing discharges and waste	3	10	D
21175	Demonstrate knowledge of workflow and schedule workflow for galvanizing at a hot dip galvanizing facility	4	20	D
21176	Describe the process of measuring zinc coating and measure thickness of hot dip galvanized zinc coatings	3	2	D
21178	Recover an object from a preparation tank and a galvanizing kettle	3	3	D
21180	Demonstrate knowledge of and supervise health and safety at a hot dip galvanizing facility	4	15	D
21182	Supervise quality management at a hot dip galvanizing facility	4	6	D
21183	Demonstrate knowledge of hot dip galvanizing metallurgy	4	5	D
21184	Plan and supervise operations, and supervise staff and equipment maintenance at a hot dip galvanizing facility	4	20	D
21185	Respond to a temperature alarm at a hot dip galvanising facility	3	1	D
25130	Describe hazards, safety and emergency procedures, and exhibit safe working practices at a hot dip galvanizing facility	2	4	D
25131	Describe potential environmental effects and methods of mitigation at a hot dip galvanizing facility	2	2	D
25132	Explain environmental regulatory requirements relating to hot dip galvanizing	4	2	D
25133	Demonstrate knowledge of venting and draining for hot dip galvanizing	3	3	D
25134	Respond to an accidental emission or spill incident at a hot dip galvanizing facility	3	4	D
25433	Manage chemicals at a hot dip galvanizing facility	4	15	D
25434	Plan for and manage the emptying of a zinc kettle at a hot dip galvanizing facility	4	8	D
28439	Jig metal components for hot dip galvanizing	3	5	D

ID	Title	Level	Credit	Review Category
28440	Degrease, pickle, rinse and flux for hot dip galvanizing	3	10	D
28441	Dip, quench, and air dry for hot dip galvanizing	3	10	D
28442	Fettle components after hot dip galvanizing	3	10	D
28443	Plan and monitor quality of jiggging for hot dip galvanizing	4	5	D
28444	Direct jiggging for hot dip galvanizing	4	10	D
28445	Plan, perform, and direct venting and draining for hot dip galvanizing	4	10	D
28446	Direct degreasing for hot dip galvanizing	4	5	D
28447	Direct pickling for hot dip galvanizing	4	10	D
28448	Direct rinsing for hot dip galvanizing	4	5	D
28449	Direct fluxing for hot dip galvanizing	4	10	D
28450	Plan and monitor quality of hot dipping for hot dip galvanizing	4	10	D
28451	Direct hot dipping for hot dip galvanizing	4	10	D
28452	Direct double-end hot dipping for hot dip galvanizing	4	5	D
28453	Direct quenching and air drying for hot dip galvanizing	4	5	D
28454	Plan and monitor quality of centrifuging operations for hot dip galvanizing	4	10	D
28455	Perform and direct hot dipping of small metal components for centrifuging	4	10	D
28456	Perform and direct centrifuging of small metal components	4	10	D
28457	Inspect galvanized items and plan fettling for hot dip galvanizing	4	5	D
28458	Direct fettling for hot dip galvanizing	4	10	D
28459	Direct weighing of galvanized components at a hot dip galvanizing facility	4	5	D
28460	Monitor quality of completed galvanized items	4	10	D
28461	Plan, perform, and direct dross removal for hot dip galvanizing	4	10	D
28462	Use a centrifuge to hot dip galvanize small metal components	3	10	D

Engineering and Technology > Industrial Coatings > Protective Coatings

ID	Title	Level	Credit	Review Category
13444	Inspect protective coating for compliance with specifications	5	25	D
17522	Apply quality control concepts to abrasive blasting and protective coating operations	4	10	D
17529	Conduct safety audit for an abrasive blasting and protective coating operation	3	3	D
17532	Demonstrate knowledge of environmental protection and waste disposal for blaster coating operations	3	3	D
17538	Apply sprayed metallic protective coating under supervision	3	6	D
17539	Describe and apply wet protective coatings	4	25	D
17541	Demonstrate knowledge of protective coatings and their thinners	3	5	D
17542	Demonstrate knowledge of film thickness measurement and porosity detection, and test protective coatings	4	8	D
17543	Describe safety procedures for, and mix and thin, protective coatings	3	4	D

ID	Title	Level	Credit	Review Category
17544	Supervise metallic protective coating operations	4	20	D
17546	Work safely at a protective coating workshop	3	4	D
27776	Confirm requirements and prepare for blaster coating operations at an exterior site	3	4	D
27777	Apply protective coating to a fixed structure or oversize plant at an exterior site	3	4	D
28773	Select and set up spray equipment for application of protective coatings	3	10	D
28774	Follow basic quality control procedures for protective coating preparation	3	10	D
28775	Follow basic quality control procedures for protective coating application	3	10	D
28776	Manage and maintain abrasive blasting and protective coating equipment	4	10	D
28777	Troubleshoot abrasive blasting and protective coating equipment	4	5	D