

## NATIONAL CERTIFICATE in HOT DIP GALVANIZING (Introductory Skills) Level 2 (55 credits)

### COMPULSORY – The following standards are required

Unit	Unit Title	Level	Credit	Tick
2395	Select, use and care for, engineering hand tools	2	4	✓
2396	Select, use and maintain portable hand held engineering power tools	2	4	✓
3800	Operate a pendant controlled overhead crane and lift and place regular loads	2	10	✓
6400	Manage first aid in emergency situations	3	2	✓
6401	Provide first aid	2	1	✓
6402	Provide resuscitation level 2	1	1	✓
17593	Apply safe work practices in the workplace	2	4	✓
21163	Demonstrate basic knowledge of the hot dip galvanizing process	2	1	✓
21164	Jig metal components for hot dip galvanizing	2	3	✓
21165	Demonstrate basic knowledge of chemicals used at a hot dip galvanizing facility	2	2	✓
21166	Inspect and fettle metal components after hot dip galvanizing	2	5	✓
25130	Describe hazards, safety and emergency procedures, and exhibit safe working practices at a hot dip galvanizing facility	2	4	✓
25133	Demonstrate knowledge of venting and draining for hot dip galvanizing	3	3	✓
<b>TOTAL OF 44 COMPULSORY CREDITS REQUIRED</b>			<b>44</b>	

### ELECTIVE 1 - A minimum of 6 credits is required from the following standards

Unit	Unit Title	Level	Credit	Tick
10851	Operate a powered industrial lift truck fitted with forks (forklift)	3	7	
17243	Process inwards goods and/or materials at a manufacturing or industrial site	3	6	
18496	Demonstrate knowledge and skills for driving a forklift on a road for endorsement F (forklifts)	3	2	
25131	Describe potential environmental effects and methods of mitigation at a hot dip galvanizing facility	2	2	
25134	Respond to an accidental emission or spill incident at a hot dip galvanizing facility	3	4	

### ELECTIVE 2 - A minimum of 5 credits from anywhere on the NQF

# NATIONAL CERTIFICATE in HOT DIP GALVANIZING (Operations) Level 3 (84 credits)

## COMPULSORY – The following standards are required

Unit	Unit Title	Level	Credit	Tick
57	Provide customer service in given situations	2	2	✓
1312	Give oral instructions in the workplace	3	3	✓
3800	Operate a pendant controlled overhead crane and lift and place regular loads	2	10	✓
6400	Manage first aid in emergency situations	3	2	✓
6401	Provide first aid	2	1	✓
6402	Provide resuscitation level 2	1	1	✓
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	✓
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	✓
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	✓
<b>TOTAL OF 64 COMPULSORY CREDITS REQUIRED</b>			<b>64</b>	

## ELECTIVE 1 - A minimum of 15 credits is required from the following standards

Unit	Unit Title	Level	Credit	Tick
1753	Load and unload a goods service vehicle	2	4	
17248	Dispatch goods and/or materials from a manufacturing or industrial site	3	6	
17585	Demonstrate knowledge of working safely in extremes of temperature	3	4	
18426	Demonstrate knowledge of hazards associated with confined space	3	4	
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	

## ELECTIVE 2 - A minimum of 5 credits at Level 3 or above from anywhere on the NOF

# NATIONAL CERTIFICATE in HOT DIP GALVANIZING (Supervision) Level 4 (103 credits)

## COMPULSORY – The following standards are required

Unit	Unit Title	Level	Credit	Tick
10425	Apply the HSE Act 1992 as an employee in a compliance and/or regulatory control workplace	4	2	✓
17601	Produce an occupational health and safety incident investigation	4	6	✓
21175	Demonstrate knowledge of workflow and schedule workflow for galvanizing at a hot dip galvanizing facility	4	20	✓
21180	Demonstrate knowledge of and supervise health and safety at a hot dip galvanizing facility	4	15	✓
21182	Supervise quality management at a hot dip galvanizing facility	4	6	✓
21184	Plan and supervise operations, and supervise staff and equipment maintenance at a hot dip galvanizing facility	4	20	✓
25132	Explain environmental regulatory requirements relating to hot dip galvanizing	4	2	✓
25433	Manage chemicals at a hot dip galvanizing facility	4	15	✓
<b>TOTAL OF 86 COMPULSORY CREDITS REQUIRED</b>			<b>86</b>	

## ELECTIVE 1 - A minimum of 12 credits is required from the following standards

Unit	Unit Title	Level	Credit	Tick
9696	Apply problem solving techniques	4	4	
9703	Write job procedures	5	3	
17590	Issue worksite specific work permits	3	6	
21183	Demonstrate knowledge of hot dip galvanizing metallurgy	4	5	
21335	Lead a group/team to achieve an objective(s)	4	5	
25434	Plan for and manage the emptying of a zinc kettle at a hot dip galvanizing facility	4	8	

## ELECTIVE 2 - A minimum of 5 credits at Level 3 or above from anywhere on the NOF

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for unit standard **17497** are **exempt** from the requirement to gain credit for the replacement standard **21335**