

# NATIONAL CERTIFICATE IN BOATBUILDING INTERIOR & EXTERIOR MARINE PAINTING (Level 4)

247 CREDITS Version 5

An apprentice completing this NZQA registered qualification will gain the knowledge and skills required to be Marine Industry recognized and qualified as a competent **Interior and Exterior Marine Painter**.

This qualification is for apprentices who specialise in marine painting, rather than the construction of boats.

Apprentices gain a general knowledge of the boatbuilding sector of the Marine Industry, learn about the correct preparation of boats for painting, gain a detailed knowledge of the materials involved and learn general painting skills from priming/undercoating through to the application of finish coats. Apprentices also learn about the different types of paint systems and the methods of applying them.

The National Certificates in Boatbuilding (Interior Marine Painting) and (Exterior Marine Painting) Level 3, are recommended pre-requisite requirements. These qualifications share a high degree of commonality of unit standards with the National Certificate in Boatbuilding (Interior and Exterior Marine Painting) Level 4.

This qualification takes, on average 3 to 4 years to complete.

(or approximately 9 months extra if Interior Marine Painting (Level 3) and Exterior Marine Painting (Level 3) are completed)

Jim Walsh



Jim Walsh completed his National Certificate in Boatbuilding (Interior and Exterior Painting) Level 4, at Vaudrey Millar Tenders Ltd in August 2010. During his training he undertook many spray jobs that included engine rooms and various components, both the build coats and finish coats.

Jim is shortly returning to his native Australia where he will be working on some restoration projects. However, his ultimate goal is to set up his own painting company.

*“After one or two months spent fairing a boat, it’s great putting on the first spray coat. The boat changes instantly, you can really see your progress and everyone is happy” – Jim Walsh*

## NATIONAL CERTIFICATE IN BOATBUILDING (INTERIOR & EXTERIOR MARINE PAINTING) Level 3 (Version 2)

### Unit Standard Content

Unit Number	Unit Title	Level	Credit Value
97	Apply surface coatings by conventional spray techniques	3	12
100	Apply liquid surface coating by airless spray techniques	3	8
414	Demonstrate knowledge of the distribution environment	2	4
1073	Describe, select, use and maintain paint brushes	2	8
2208	Select and mix stain for application to furniture surfaces	3	8
6401	Provide first aid	2	1
6402	Provide resuscitation level 2	1	1
9184	Erect non-notifiable prefabricated scaffolding	3	3
9913	Demonstrate knowledge of the New Zealand marine industry	2	3
9917	Demonstrate knowledge of boat building methods	2	4
11786	Anti-foul a boat	4	2
11787	Prepare wooden substrates for marine surface coatings	4	5
11791	Apply build coats and finish coats for marine exterior paint surfaces	4	20
17740	Rectify faults in furniture surfaces for furniture finishing	2	4
18158	Select, use and care for hand tools used in boat building	2	5
18159	Select, use and care for portable power tools used in boatbuilding	2	5
18160	Operate mechanical plant used in boatbuilding	2	12
18161	Perform measurements and calculations used in boatbuilding	2	5
18162	Calculate quantities and costs for boatbuilding projects	3	4
18163	Demonstrate a knowledge of boatbuilding construction drawings and produce related freehand sketches	3	2
18165	Demonstrate knowledge of computer technology used in the boating industry	3	6
18166	Participate in a project team in the boating industry	2	4
18170	Contribute to a project team in the boating industry	3	3
23041	Demonstrate knowledge of abrasives and equipment used in marine painting	3	3
23042	Demonstrate knowledge of substrate preparation for marine painting	3	4
23044	Demonstrate knowledge of marine paint technology	3	5
23045	Demonstrate knowledge of paint system calculations for marine paint	4	4
23046	Demonstrate knowledge of marine paint systems application	3	4
23047	Demonstrate knowledge of clear marine finishes and application	3	4
23048	Demonstrate knowledge of marine paint finish problems	4	3
23243	Identify and explain the causes and prevention of material deterioration in the marine environment	4	8
23244	Identify and apply health and safety procedures for the boatbuilding industry	3	4
25113	Describe filling and fairing technology used in boatbuilding	3	4
25114	Mask and protect boats for painting	3	4
25154	Prepare for and apply marine interior coating system	4	8
25155	Fair boat surfaces	3	4
25156	Fill boat surfaces	3	6
25343	Identify boat fittings and fastenings	2	4
25344	Demonstrate knowledge of marine trades and expectations of employees	2	3
25345	Demonstrate knowledge of terminology used in the marine industry	2	6
25527	Set up and maintain conventional spray equipment for furniture finishing	3	6
25528	Set up and maintain air-assisted spray equipment for furniture finishing	3	5
25998	Demonstrate knowledge of marine paint system repair	3	5
25999	Repair marine paint systems	4	8
26542	Demonstrate basic knowledge of the operation of recreational craft by day	2	6

### Elective Unit Standard Content Plus at least 10 credits from the following list:

11788	Prepare fibre-reinforced composite substrates for marine surface coatings	4	5
11789	Prepare steel substrates for marine surface coatings	4	5
11790	Prepare aluminium substrates for marine surface coatings	4	5
23049	Demonstrate knowledge of composite technology for boatbuilding	4	6
25116	Lift, support and move boats and components	3	8
25152	Apply 2D CAD/CAM in boatbuilding	4	5