

## IBTC Portsmouth Training Summary Matrix

Module No.	Module Name	Key Competency
<b>1</b>	<b>Foundation Joinery</b>	
1.1	Foundation Joinery	Timber Preparation
1.2	Foundation Joinery	Sawing
1.3	Foundation Joinery	Bench Hook
1.4	Foundation Joinery	Beech Mallet
1.5	Foundation Joinery	Oilstone Box
1.6	Foundation Joinery	Basic Joints
1.7	Foundation Joinery	Joiner's Rod & Dimensional Frame
1.8	Foundation Joinery	Plank Scarphs
1.9	Foundation Joinery	Keel Scarphs
1.10	Foundation Joinery	Timber Technology
<b>2</b>	<b>Advanced Joinery</b>	
2.1	Advanced Joinery	Dovetails Joints
2.2	Advanced Joinery	Tool Box
2.3	Advanced Joinery	Small Case for Tools
2.4	Advanced Joinery	Trays for Tool Box
2.5	Advanced Joinery	Adhesives
<b>3</b>	<b>Marine Joinery</b>	
3.1	Marine Joinery	Grating
3.2	Marine Joinery	Bollow Plane
3.3	Marine Joinery	Spar Gauge
3.4	Marine Joinery	Level
3.5	Marine Joinery	Steps
<b>4</b>	<b>Machine Shop</b>	
4.1	Machine Shop	Dimension Saw
4.2	Machine Shop	Planer Thicknesser
4.3	Machine Shop	Small Bandsaw
4.4	Machine Shop	Large Bandsaw
4.5	Machine Shop	Overhand Planer
4.6	Machine Shop	Drill Press
4.7	Machine Shop	Bench Grinder
4.8	Machine Shop	Crosscut Saw
4.9	Machine Shop	Bobbin Sander
4.10	Machine Shop	Belt Sander
4.11	Machine Shop	Disc Sander

<b>5</b>	<b>Lofting</b>	
5.1	Lofting	Marine Nomenclature
5.2	Lofting	Lofting Theory
5.3	Lofting	Understanding Lines Drawing
5.4	Lofting	Understanding Table of Offsets
5.5	Lofting	Laying Out Loft Floor
5.6	Lofting	Setting Out and Laying Down Grid
5.7	Lofting	Production of Fairing Battens
5.8	Lofting	Lofting and Fairing Lines
5.9	Lofting	Expansion of Key Structural Elements
5.10	Lofting	Development of Structural Sections
<b>6</b>	<b>Mould And Pattern Making</b>	
6.1	Mould and Pattern Making	Lifting Shapes of Structural Components
6.2	Mould and Pattern Making	Lifting Shapes of Moulds
6.3	Mould and Pattern Making	Production of Moulds
6.4	Mould and Pattern Making	Transferring Datum Lines to Moulds
<b>7</b>	<b>Small Boatbuilding - Set Up</b>	
7.1	Small Boatbuilding	Manufacture and Set Up Centre Line
7.2	Small Boatbuilding	Manufacture and Set Up Transom
7.3	Small Boatbuilding	Set Up Moulds
<b>8</b>	<b>Small Boatbuilding - Clinker Planking</b>	
8.1	Small Boatbuilding	Lining Off and Setting Out Planking
8.2	Small Boatbuilding	Spiling and Hanging Planks
8.3	Small Boatbuilding	Roving Copper Nails - Planking
<b>9</b>	<b>Small Boatbuilding - Fit Out</b>	
9.1	Small Boatbuilding	Roving Copper Nails – Fit Out
9.2	Small Boatbuilding	Steam Bending Timbers
9.3	Small Boatbuilding	Fitting Out
9.4	Small Boatbuilding	Alternative Boatbuilding Techniques
9.5	Small Boatbuilding	Comparative Study of Modern Boatbuilding Techniques (e.g. Cold Moulding, Strip Planking)
<b>10</b>	<b>Spar Making</b>	
10.1	Spar Making	Spar Making Theory
10.2	Spar Making	Solid Spar
10.3	Spar Making	Hollow Spar
10.4	Spar Making	Repairs
<b>11</b>	<b>Oar Making</b>	
11.1	Oar Making	Spoon Oar

<b>12</b>	<b>Large Boatbuilding - Carvel Planking</b>	
12.1	Large Boatbuilding	Large Boatbuilding Theory
12.2	Large Boatbuilding	Heavy Carvel Planking
12.3	Large Boatbuilding	Backing Out, Bevelling and Caulking Seams
12.4	Large Boatbuilding	Steaming Larger Components
12.5	Large Boatbuilding	Repair and Restoration Techniques - Planking
12.6	Large Boatbuilding	Caulking and Paying Seams
<b>13</b>	<b>Large Boatbuilding - Sub-Assembly</b>	
13.1	Large Boatbuilding	Repair and Restoration Techniques – Sub-Assembly
13.2	Large Boatbuilding	Sawn and Laminated Framing
13.3	Large Boatbuilding	Machinery and Propulsion
<b>14</b>	<b>Large Boatbuilding - Superstructure</b>	
14.1	Large Boatbuilding	Deck Structure
14.2	Large Boatbuilding	Deck Planking
14.3	Large Boatbuilding	Furniture, Joinery and Fit Out
<b>15</b>	<b>Painting And Finishing</b>	
15.1	Painting and Finishing	Paint Technology
15.2	Painting and Finishing	Anti Foul Technology
15.3	Painting and Finishing	Surface Preparation
15.4	Painting and Finishing	Brush and Tool Cleanliness
15.5	Painting and Finishing	Use of Rollers
15.6	Painting and Finishing	Use of Brushes
15.7	Painting and Finishing	Tipping Off
<b>16</b>	<b>City And Guilds</b>	
16.1	City and Guilds	Unit 301 - Safe and Effective Working in the Marine Industry
16.2	City and Guilds	Unit 302 - Principles of Boat Construction
16.3	City and Guilds	Unit 304 - Construction and Repair of Hulls and Boat Structures
16.4	City and Guilds	Unit 305 - Producing and Fitting Structural Boat Components

Additional	Composites	
A.1	Composites	Introduction to Composites
A.2	Composites	Lay Up (Panel)
A.3	Composites	Lay Up (Hull Sample)
A.4	Composites	Advanced Composites
	Material Technology	Timber storage, selection and properties
	Material Technology	Timber defects
	Project Management	Job planning using relevant data sources and customer requirements
	Project Management	Material costings and budgeting
	Project Management	Build sequence planning and timings
	Project Management	HSE requirements
	Project Management	