

BOAT BUILDING AND REPAIR SVQ – PATHWAYS

Mandatory Units – All Pathways / All Candidates

Unit 1	Complying with Statutory Regulations and Organisational Safety Requirements
Unit 2	Using and Interpreting Engineering Data and Documentation
Unit 3	Working Efficiently and Effectively in Engineering
Unit 25	Slinging, Lifting and Moving Materials, Machinery and Components in a Marine Environment

Pathway 1 – Timber Boat Construction

Mandatory Units – All Candidates

Unit 216	Repairing yacht and boat wooden components and assemblies
Unit 217	Repairing yacht and boat composite components
Unit 229	Producing/finishing wooden structural components for yachts and boats using hand tools
Unit 230	Producing wooden structural components for yachts and boats using machines

Optional Unit – Candidates To Complete Any 3

Unit 138	Installing Marine Wooden Components
Unit 228	Lining off for assembly and erection of yacht and boat wooden components
Unit 224	Finishing yacht and boat wooden furniture/outfitting units by applying surface finishes
Unit 208	Installing domestic systems and equipment in yachts and boats
Unit 207	Installing ancillary systems and equipment in yachts and boats
Unit 214	Servicing ancillary systems and equipment in yachts and boats
Unit 232	Preparing yacht and boat surfaces for coating/finishing using hand and mechanical tools
Unit 234	Applying surface coatings manually to yachts and boats
Unit 235	Applying surface coatings to yachts and boats using spray methods
Unit 237	Applying fairing/filling compounds to yachts and boats

Pathway 2 – Composite and Metal Boat Construction

All Candidates to Complete Any 4 Units

Unit 135	Producing Marine Wooden Components using Hand Tools
Unit 136	Producing Marine Wooden Components using Machines
Unit 216	Repairing yacht and boat wooden components and assemblies
Unit 217	Repairing yacht and boat composite components
Unit 50	Assembling Fabricated Components to Produce Marine Sub-Assemblies
Unit 54	Cutting Materials using Hand and Machine Tools
Unit 62	Outfitting Marine Steelwork

Composite
Boat Construction

Metal
Boat Construction

Composite Boat Construction

All Candidates to Complete Any 3 Units

Unit 146	Producing marine composite assemblies
Unit 148	Installing marine composite components
Unit 150	Repairing marine composite components and assemblies
Unit 151	Identifying defects in marine composite components and assemblies
Unit 203	Installing Electrical Equipment in Yachts and Boats
Unit 232	Preparing yacht and boat surfaces for coating/finishing using hand and mechanical tools
Unit 234	Applying surface coatings manually to yachts and boats
Unit 235	Applying surface coatings to yachts and boats using spray methods
Unit 224	Finishing yacht and boat wooden furniture/outfitting units by applying surface finishes
Unit 237	Applying fairing/filling compounds to yachts and boats
Unit 207	Installing ancillary systems and equipment in yachts and boats

Metal Boat Construction

All Candidates to Complete Any 3 Units

Unit 51	Cutting and Shaping Materials using Portable Thermal Cutting Equipment
Unit 52	Assembling Sub-Assemblies and Components to Produce Major Marine Structural Assemblies
Unit 63	Tack Welding Marine Plate using a Manual/Semi Automatic Welding Process
Unit 181	Preparing Marine Material Surfaces using Hand and Mechanical Tools
Unit 182	Preparing Marine Coating Materials for Application
Unit 189	Applying deck screeds and other deck coverings
Unit 67	Installing Marine Propulsion Systems and Equipment
Unit 70	Installing Marine Hydraulic Systems and Equipment
Unit 76	Installing Marine Ancillary Plant and Equipment
Unit 75	Installing marine lifting equipment
SEMFWE304	Welding Materials by the Manual Metal Arc Process
SEMFWE305	Welding Materials by the Semi-automatic MIG/MAG and flux cored arc Processes
SEMFWE322	Marking Out Components for Metalwork
SEMFWE332	Cutting Plate and Sections using Shearing Machines
SEMME3051	Cutting and Shaping Materials using Portable Thermal Cutting Equipment
SEMFWE334	Cutting Materials using Saws and Abrasive Discs
SEMFWE335	Bending and Forming Plate using Press Brakes or Bending Machines
SEMFWE344	Forming Pipework by Machine Bending
SEMFWE345	Producing Pipe Fabrications