

## **Module Objectives**

### **Year 1 Modules**

#### **Workplace Safety & Health Management at Shipyard**

On completion of the module, trainees should be able to apply the knowledge in Workplace Safety & Health Management and operational aspects of marine safety at the shipyard and production workshops

#### **Marine Production Technology**

On completion of the module, trainees should be equipped with the knowledge in basic properties and applications of materials. They should also be able to install and test marine and offshore systems and fabricate steel structures and blocks for marine vessels and offshore installations

#### **Fundamental of Marine Design & Drafting**

On completion of the module, trainees should be able to interpret ship general arrangement drawings, tank arrangement drawings and block assembly drawings. They should also be able to produce lines, docking and integrity plans.

### **Year 2 Specialisation Modules (Production [ Repair & Maintenance] )**

#### **Marine Machinery & Systems**

On completion of the module, trainees should be able to assemble, service, maintain and install components and machinery of various marine systems onboard ships and offshore installations. They should also be able to carry out testing and inspections for the operation of these marine systems.

#### **Marine Electrotechnology & Automation**

On completion of the module, trainees should be able install, service and repair electrical equipment used on board marine vessels and offshore installations. They should also be able to carry out testing, fault diagnosis and maintenance of instrumentation and control equipment commonly used in marine and offshore applications.

#### **Marine & Offshore System Commissioning**

On completion of the module, trainees should be able to perform testing and commissioning of various marine systems and equipment for ships and offshore vessels, in accordance with commissioning procedure.

#### **Quality Engineering**

On completion of the module, trainees should be able to adopt quality control tools for process improvement and carry out quality inspections on machinery alignment welding activities and blasting and painting activities.

## **Year 3 Modules**

### **Effective Supervision**

On completion of the module, trainees should be able to perform supervision in the marine industry and possess design thinking and communication skills in their approach towards complex issues and problems.

### **Project Management**

On completion of the module, trainees should be able to apply the knowledge in newbuilding processes, shipyard organization, material flow and key concepts of management process, critical path analysis, and use of computer applications for project administration of ship repair or newbuilding projects.

### **Company Project**

On completion of the module, trainees should have applied their acquired competencies in an authentic project that would value-add to the company.

### **On-the-Job Training**

On completion of the module, trainees should be able to apply the skills and knowledge acquired at ITE College and workplace to take on the full job scope, including supervisory function, where appropriate, at the company.