

Diploma (Specialized in Marine Engineering)

OVERVIEW

Marine Engineering includes the engineering of boards, ships, oil rigs, and any other marine vessel or structure, as well as oceanographic engineering. Specifically, Marine Engineering is the discipline of applying engineering sciences including Mechanical Engineering, Electrical Engineering, Electronic engineering and computer science to the development, design, operation and maintenance of watercraft propulsion and on-board systems and oceanographic technology. It includes but is not limited to power and propulsion plants, machinery, piping, automation and control systems for marine vehicles of any kind, such as surface ships and submarines.

PROGRAMME OBJECTIVES:

The Specialized Diploma in Marine Engineering is a recognized qualification for Marine engineering technicians and supervisors throughout Singapore and Malaysia and is supported by the industry. Learn to apply Marine engineering theory to practice and competently perform technical operations to the standards expected by the engineering profession.

DURATION COMPONENTS:

Classroom Training Hours: 32 Hours Per Module

MODULE SYNOPSIS:

FWSH101 Fundamental of Workplace Safety and Health

The Fundamental of Workplace Safety and Health module provides students with the requisite knowledge of Health and Safety in the workplace. Upon completion of the module, students should be able to identify hazards in the workplace and state their possible effects and outline methods for creating a safe working environment and dealing with incidents.

MP102 Managing People

The Managing People module provides students with a solid grounding in the basics of managing people in the organization. Students are expected to identifying the various models and methods available to monitor tasks, explaining how orders are given and discuss the steps involved in ensuring that those orders are carried out.

MP104 Materials in Practice

The Materials in Practice module is focus on the materials in practice chemical industry, structure of metals and alloys, equilibrium diagram and heat treatment of steels and engineering alloys and composite materials

ASSESSMENT METHODS:

100% Coursework

PROGRAMME OUTCOMES:

The Diploma Programme in Marine Engineering seeks to provide more accessible and quality education and training to production personnel to meet the real work needs of marine industry and prepare them for the changes in techniques, technologies, markets and employment patterns. This Programme has been designed to enhance quality and productivity of marine personnel.

Upgrade and modernize the technical know-how of those will to engaged in the marine-related activities, of advancing their careers in marine; and Provide better industry-education linkage by matching learner's educational needs while collaborating with professional bodies and technical institution

AWARDING BODIES:

Global School of Technology and Management

NUMBER OF MODULE:

6

TOTAL CONTACT HOURS:

192

EEP113 Electrical and Electronic Principles

The Electrical and Electronic Principles module is designed to equip students with the knowledge of how to use circuit theory to determine voltage, current and resistance in direct current (DC) circuits, concepts of capacitance and determine capacitance values in DC circuits, principles and properties of magnetism and Alternating Current (AC) Theory.

EM105 Engineering Mechanics

The Engineering Mechanics module is equipped students with the solid understanding on importance of Statics and Dynamics in engineering. Students will be able to identify the machine members in which friction exists, comprehend the principals involved in Simple Mechanism and to explain the Geometric Properties of Sections and Basic Link Mechanism.

MEK06 Marine Engineering Knowledge

The Marine Engineering Knowledge module provides students with a basic understanding of the different types of ship and their prime movers, construction and operation of compression ignition engine, principals involved in steam turbines and gearing and refrigeration and air conditioning.