

Diploma (Specialized in Civil Engineering)

OVERVIEW

Civil Engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including works like roads, bridges, canals, dams and buildings. Civil Engineering is the second-engineering, and it is defined to distinguish non-military engineering from military engineering. It is traditionally broken into several sub-disciplines including architectural engineering, environmental engineering, geotechnical engineering, control engineering, structural engineering, etc.

PROGRAMME OBJECTIVES:

The Diploma (Specialized in Civil Engineering) is a recognized qualification for Civil engineering technicians and supervisors throughout Singapore and Malaysia and is supported by the industry. Learn to apply Civil engineering theory to practice and competently perform technical operations to the standards expected by the engineering profession. This course covers wide knowledge of Civil Engineering Drawings, Building Construction Materials, Civil Engineering Technology and Applied Mechanics.

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.

AM106 Applied Mechanics

The Applied Mechanics module is equipped students with the solid understanding on static forces on the structures and bodies in motion and principles of equilibrium, resolution and composition of forces, friction, equilibrium, plane truss, kinematics and kinetics.

ASSESSMENT METHODS:

100% Coursework

PROGRAMME OUTCOMES:

The Diploma Programme in Civil Engineering seeks to provide more accessible and quality education and training to construction personnel to meet the real work needs of construction 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 construction personnel.

Upgrade and modernize the technical know-how of those engaged in the construction related activities apart from the fresh entrants to the construction industry desirous of advancing their careers in Construction Industry; and Provide better industry-education linkage by matching learners educational needs while collaborating with professional bodies and technical institutions.

AWARDING BODIES:

Global School of Technology and Management

NUMBER OF MODULE:

6

TOTAL CONTACT HOURS:

192

CED103 Civil Engineering Drawings

The Civil Engineering Drawings module introduces the importance of conventions in drawing and planning of buildings. Upon completion of this module, students should be able to draw the components drawing including drawing plan, elevation of building drawing and detailed working drawing of a building.

BCM104 Building Construction Materials

The Building Construction Materials module provides students with the requisite knowledge to availability, characteristics and uses of building stone in the building construction, not limited to Bricks, Clay, Lime, Cement, Timber, Paints, Glass, Plastic and Water Proofing Materials.

CET105 Civil Engineering Technology

The Civil Engineering Technology module is designed to equip students with the knowledge of Civil Engineering works, Geotechnical Engineering, Site Investigations, Design and Construction of Foundations and Construction of Bridges, Culverts Retaining Walls and Tunnels