

# Certificate in Built Environment Practices

## OVERVIEW

The Certificate in Built Environment Practices provides necessary knowledge and skills for students with or without experience to understand the nature of built environment practices from both local and international perspectives.

### PROGRAMME OBJECTIVES:

This programme aims are to equip students with fundamental concepts and skills for success in employment in the Construction and Built Environment sector. Students will gain additional knowledge to excel in the workplace, and confidence and support a career change or get ready to further study in GSTM.

### ASSESSMENT METHODS:

70% Coursework & 30% Examination

### NUMBER OF MODULES:

2

### DURATION COMPONENTS:

Classroom Training Hours: 30 Hours Per Module

### MODULE SYNOPSIS:

#### **CBEP101 Workplace Safety and Health Practice in Building Industry**

This module aims to equip students with Workplace Safety and Health Practice in the work environment, particularly in the building and construction, so that students can formulate and recommend sound measure to deal with workplace safety and health-related issues.

Upon completion of this module, students will be able to

- explain the main health, safety and welfare legislation in the construction sector including the requirements of effective health and safety policy along with the organisational arrangements necessary for its implementation,
- demonstrate an understanding of hazard and risk identification in design and construction,
- undertake a risk assessment and formulate control measures to prevent ill health and injury and review, revise and monitor evaluations as required.

### PROGRAMME OUTCOMES:

Upon completion of the programme, the learners will be able to:

- develop an understanding of the fundamental concepts in workplace safety and health and construction technology in the construction and built environment
- develop a good analytical ability and practices of construction technologies in different situations of construction management
- identify the challenges of workplace safety and health and recommendations to improve the services
- demonstrate interpersonal, self-study, research and presentation skills through the course
- have adequate preparation for their careers or further studies in construction or building management course.

### AWARDING BODIES:

Global School of Technology and Management

### TOTAL CONTACT HOURS:

60

#### **CBEP102 Construction Technology**

Within the highly complex urban/built environment of Singapore such as under highly congested working condition, sloppy ground or constructing super highrise structures, the industry in the recent decades has adopted the most up-to-day and advanced technology to construct. The design of this module aims to provide a basic understanding and knowledge of all the essential topics that fulfil the contemporary situation.

The student will learn the basic construction engineering works such as slope, foundation/ substructure and other major structural elements of building/super-structure. The other associated areas will also cover some building components and finishes items such as the false ceiling, partitioning and other cladding systems.

Upon completion of this module, the students will be able to:

- understand the production and construction techniques associated with innovative technologies
- understand how innovation and sustainability may affect the life cycle of a construction project
- determine the performance of buildings
- assess the energy efficiency performance of the building services systems