

# Specialist Diploma in Quantity Surveying

## OVERVIEW

Specialist Diploma in Quantity Surveying is focus on strengthening student's knowledge and hone the necessary expertise for a competitive market in Singapore. Learner gains a detailed understanding of building production from concept to completion. This course covers all the key aspects of construction, commercial and domestic measurement as well as project estimating and tendering.

## PROGRAMME OBJECTIVES:

Communicate effectively and work well on team-based engineering projects through the knowledge in project, man and safety and health management system. The construction assembly process includes recognition of correct application of build ability, elements, components, materials, techniques, Interpretation of documentation, Understanding the performance of potential of materials and components. The use of relevant mapping/measurement system, instruments and methods to conduct data collection, analyze, synthesis and application of data to produce appropriate construction cost, schedule and material. Application of legal concepts and framework to contract management

## DURATION COMPONENTS:

Classroom Training Hours: 30 Hours Per Module

## MODULE SYNOPSIS:

### WSH201 Workplace Safety and Health Practice in Building Industry

This module is equipped students with the workplace health & safety problems associated with the construction industry. This is including the safety laws in Singapore relevant to construction operations and the office environment, Work Place Safety & Health Regulations by the Ministry of Manpower and the theory and practice of safety management in the construction industry.

### CP202 Contracts & Procurement

This module focuses on the contract administration, bidding and procurement processes to enable students to progress to the next module focus on the practical theme of contracts and procurement theme at the Advanced Diploma level.

### HMBE203 Human Management in the Built Environment

Human Resource Management (HRM) is the process of managing people within an organisation. In construction, HRM is primarily concerned with ensuring that a project has sufficient human resources, with the correct skill-sets and experience, to complete. HR managers have to identify and document project roles and responsibilities and develop a plan describing the end-to-end processes required on a project (or series of projects) to determine its human resource requirements.

### ITD204 Interpret Technical Drawing

This module focuses on the basic concepts of interpreting technical drawing applying to the Architectural-Engineering-Construction (AEC) industry. Students will be able to understand techniques, drawing skills, and modern engineering tools to design and configure the drawing; Know-how in reading and understanding the data required from the drawing, specification to complete the material and cost of construction and Site communication skills based on the drawing and specification

## ASSESSMENT METHODS:

70% Coursework & 30% Examination

## PROGRAMME OUTCOMES:

Upon completion of this course, the student will be able to understand and apply the process of project management (multi-disciplinary environment), the site safety management and interface with designer/architecture firm with respect to construction activities. Ability to identify, assesses, formulates and solved problem related quantity surveying issues. Ability to apply fundamental and specialized knowledge of building, civil, electrical and mechanical construction, measurement, price estimating techniques to solve quantity surveying problems; reasoning and conceptualizing construction cost, price, risk and value associated with design and construction; evaluating alternatives in the interests of added value in project construction. assignments.

## AWARDING BODIES:

Global School of Technology and Management

## NUMBER OF MODULE:

8

## TOTAL CONTACT HOURS:

240

## M207 Measurement

The Measurement Module provides students with solid knowledge of measurement techniques and their application in the construction and building industry. The module focuses on equipping students with the skill and knowledge to produce Bills of Quantities for simple building work and estimate construction costs.

## CCC205 Construction Cost Control

It is every supervisor's responsibility to complete their project on budget and within the estimated costs. Therefore, the module aims to equip students with solid knowledge of effective control of construction costs at the job site and construction projects. Students will study construction cost and apply principles and practices associated with cost awareness and production control to each project element. Cost control begins with the estimate and then continues through work and cost analysis, production scheduling, reporting, production control, and project evaluation. The information will be studied by solving common construction problems, considering case studies, and discussing common cost control issues.

## CT206 Construction Technology

This module focuses on modern construction technology in construction and building services systems. Innovation and sustainability of the life cycle of a construction project, performance of buildings and energy efficiency performance of the building services systems are a crucial part of successful projects.

## ET208 Estimating and Tendering

This module focuses on equipping students with an understanding of the processes and techniques involved in measuring, estimating and tendering processes in construction and the built environment. It focuses on developing student' skills in producing final quantities, calculating all-in rates and determining the approximate value of building projects.

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