

BIM Quantity Take-off

INTRODUCTION

The Building Information Modelling (BIM) is certainly changing the way project teams work and is taking the construction industry into a new era of quicker and more productive processes, higher cost certainty with a reduction of risks. With a mandatory phased BIM submission by 2015, the need for quantity surveyors to embrace and evolve with BIM is inevitable and crucial to improve cost performance with certainty on increasingly complex projects worldwide.

OBJECTIVES

Through international project case studies and hands-on exercises, participants will be able to understand the model-based quantity take-off process in 3D modelling and how it comprises trade-based standards of measurement rules in BIM to:

- Improve productivity through model-based quantity take-off compared to traditional methods
- Process in fast and accurate quantity measurements from tender stage to final accounts
- Accelerate cost estimation and decision making on resources planning

CONTENTS

- Introduction of VDC, 5DBIM Process and Open BIM Concept
- Hands-on exercise on BIM Take-off Process from Tender Acquisition to Final Accounts
- Applications of BIM Modelling Standards on Architectural, Structural and MEP trades with SMM2
- 5D Measurement – From Elemental to Trade Based Quantity Take-off
- Demonstration and Hands-on Exercise on 5D BIM for residential and commercial project using Trimble™ Vico Office™
- Case study: International Applications of 5D BIM
- In-class Assignment

LECTURERS

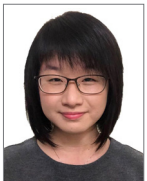


MR ROY KEUNG BSc (Hons), MRICS

Solutions Manager (Quantity Surveying)

Global Virtual Design and Construction (Singapore) Pte Ltd

Mr Roy Keung is the Solutions Manager (Quantity Surveying) of Global Virtual Design Construction Limited (GVDC). He is the BIM Team Leader in Quantity Surveying and helps to develop the hybrid 5DBIM quantity take-off system. He has over 12 years work experience in quantity surveying in Hong Kong, ranging from new build & refurbishment, school development, theme park development, residential building. Mr Keung has extensive experiences on implementing Virtual Design and Construction approach together with 5DBIM for both model-based and trade-based quantity take-off and cost estimations. Mr Keung holds a Bachelor Degree in Construction Economics and Management from the Hong Kong Polytechnic University. Mr Keung is also a Professional Member of Hong Kong Institute of Building Information Modeling (HKIBIM), and a winner of the Hong Kong Construction Industry Council BIM Excellence Award 2014 - Construction Innovator by BIM.



MS AMELIA TAN BSc (HONS)

BIM QS

Global Virtual Design and Construction (Singapore) Pte Ltd

Ms Amelia Tan is the BIM Quantity Surveyor of Global Virtual Design and Construction Limited (GVDC). She is part of the BIM team member in the QS department and has 5 years of BIM and QS experience in Malaysia, Singapore and Hong Kong projects, ranging from residential to commercial and hospital buildings. Ms Tan holds a Bachelor Degree in Quantity Surveying from Northumbria University, UK.



DETAILS

10th Run: 29 & 30 Aug 2019

Duration: 2 days

Time: 9.00am to 5.00pm

Venue: BCA Academy

Fees (incl of GST):

S\$800.00 (without Subsidy)

S\$276.64* (with WTU funding support for eligible local participants*)

Refreshments will be provided.

In keeping with our green and sustainable practices, course notes will be available in e-format.

*For more information on the funding requirement, please refer to

<http://www.bca.gov.sg/manpower/wtu.html>

AWARD

Certificate of Attendance (COA) will be awarded to participants who meet the attendance requirement.

TARGET AUDIENCE

- Contract Managers
- Quantity Surveyors
- Cost Estimators

Note: Programme content subject to change without prior notice



To register, please log into our Online StoreFront (OSF) at <https://eservices.bcaa.edu.sg/registration/#/login> or scan QRcode and search for course code **78096**