



## E-LEARNING

100% online. May include pre-recorded session, live streaming/webinar and discussion forum, where applicable.

### ONLINE SYNCHRONOUS LEARNING:

**Date:** 25 Apr to 28 Apr 2023

**Time:** 9.00am to 6.00pm

### MCQ ASSESSMENT:

**Date:** 2 May 2023

**Time:** 10.00am to 11.00am

**PLATFORM:** BCAA Learning Management System (LMS)

**FEE** (incl of GST): S\$1,200.00

### CPD POINTS

BOA-SIA: -

PEB: -

SCEM: -

SGBC-GMAP: -

## Certification Course on

# Design, Optimisation and Measurement of High Efficiency Central Air-Conditioning System

### INTRODUCTION

Air-conditioning systems are typically one of the highest energy consuming building mechanical systems. Hence, it is essential for us to design air-conditioning systems with energy efficient and effective strategies. In addition, installation of permanent instrumentation for the measurement and verification of chilled-water air-conditioning systems helps to better manage and monitor the systems' performance, such that the operational efficiency can be optimised and maintained through the equipment lifespan.

### LEARNING OUTCOMES

This course aims to equip industry practitioners with knowledge to design energy efficient air-conditioning systems, carry out measurement and verification of systems' efficiency and prepare Operating System Efficiency (OSE) report.

At the end of the course, participants will be able to:

- Apply BCA's environmental sustainability legislative framework and BCA Green Mark 2021 (GM: 2021) requirements on Air-Conditioning (A/C) system performance;
- Review and optimise A/C system design and equipment selection to ensure good operating performance; and
- Prepare OSE reports.

### TARGET AUDIENCE

Industry practitioners who are keen to embark on Green Mark journey or play the role of a Green Specialist; e.g. Developers, Building Owners, Architects, Engineers, Consultants, Project Managers, Facility Managers etc.

### KEY LECTURER

**STEVEN KANG** is the Business Development Director for Measurement & Verification Pte Ltd. He has extensive international work experience in the Heating, Ventilation and Air-conditioning (HVAC) industry ranging from business development, engineering applications and training. Steven has been involved in the design of hyper-efficient HVAC system for Platinum rated Green Buildings and Data Centres projects locally and Asia. Additionally, he sits on the committee for Singapore Energy Auditor Registrar, Singapore Standard on Chiller Plant Measurement and Verification (SS591), Singapore Standard on Air-conditioning and Mechanical Ventilation in Buildings (SS553) and was in the technical review committee of Vietnam Green Building Council's Sustainable Building Assessment System.

### ASSESSMENT AND AWARD

An e-Certificate of Successful Completion (e-CSC) will be issued to participants who:

- Achieve at least 75% class attendance; and
- Pass MCQ test, group project assignment and peer evaluation.

*For information on the Green Mark Professional Qualification Scheme administered by the Singapore Green Building Council, please visit <https://gmap.sgbc.online/public/about>*



### REGISTRATION

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 **80045**