



## E-LEARNING

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

### ONLINE WEBINAR LEARNING:

**Date:** Jun 2023

**Time:** 9.00am to 1.30pm

### MCQ ASSESSMENT:

**Date:** Jun 2023

**Time:** 10.00am to 11.00am

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

**FEE** (incl of GST): S\$900.00

### CPD POINTS

BOA-SIA: -

PEB: -

SCEM: -

SGBC-GMAP: -

## Certification Course on

# Urban Heat Island (UHI) Mitigation Strategies

### INTRODUCTION

The Centre for Climate Research Singapore (CCRS) has projected that Singapore's maximum daily temperature could reach 35 to 37 degrees Celsius by year 2100, if carbon emissions continue to rise at the same rate. This is compounded by the Urban Heat Island (UHI) effect, a phenomenon where urban built environment is warmer than rural areas. As such, the BCA Green Mark 2021 (GM: 2021) places stronger focus to drive carbon reduction in mitigating the effects of climate change.

### LEARNING OUTCOMES

This course aims to evaluate how urban areas can be better designed to provide natural cooling and implement initiatives to mitigate the UHI effect in Singapore. Industry practitioners will be equipped with knowledge to design and adopt innovative solutions towards a cooler Singapore.

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

- Determine the causes and effects of Urban Heat Island (UHI);
- Determine the key mitigation strategies at both macro- and microclimate levels; and
- Analyse the suitability of mitigation strategies based on established guidelines and project typologies.

### 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.

### LECTURERS

**PROF WONG NYUK HIEN** is currently the Deputy Head in charge of academic matters and professor in the Department of Building, School of Design and Environment, National University of Singapore. He has also been the Deputy Head (Research), Programme Director for B.Sc (PFM), Programme Director for Master of Science (Building Science) as well as Programme Director for Bachelor of Building (Construction Management) and Bachelor of Building (Construction Economics).

**HENRY WOON** is the Director leading Atelier Ten (Asia) office in Singapore. Prior to moving to Singapore, Henry led a series of high profile, award-winning projects across the world including the Meixi Lake Sustainable Building Exhibition Centre in China and TMB Headquarters in Turkey. He specialises in combining environmental design principles and computational simulation capabilities with the practical engineering design knowledge to ensure that sustainable design strategies are deployed in the context of practical building service solutions.

### 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 and group project assignment.

*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 **80084**