

Certification Course for Green Mark Associate: Introduction to Built Environment Sustainability



This course is a requirement for Green Mark Associate certification and will cover key green building topics, including energy efficiency, green building materials and technologies, indoor environmental quality and water conservation. The course content is intended to enhance and reinforce knowledge on built environment sustainability.

BLENDED LEARNING FORMAT

Certification issued upon successful completion of ALL 3 course components:

1. Asynchronous Online Learning (5 hours)

- Learn about built environment sustainability, green building strategies and the local legislative framework at your own time and pace with the course's asynchronous online learning package.

2. Online Assessment (2 attempts)

- 30-question multiple-choice online assessment, accessible anytime. Pass the assessment within two (2) attempts.
- Attempts can be reset for a \$20 admin fee.

3. In-person Applied Learning Workshop (3 hours)

- In-person event led by a Green Mark Professional (GMP) to refresh green building concepts and strategies as well as learn from exemplary Singapore green building case studies.

Once all parts of the course have been verified as complete and all documents submitted are in order, the Green Mark Associate certification will be issued and is valid for 12 months.

ASYNCHRONOUS ONLINE LEARNING PACKAGE OUTLINE

- **Green Building Fundamentals**

- ✚ Delivered by John Guk, Lecturer, Nanyang Polytechnic (NYP)

- Coverage Areas:

- ❖ Planetary Crisis
 - ❖ Built Environment industry & its impact
 - ❖ Green Building Movement – Global | Singapore
 - ❖ Introduction to Green Buildings
 - Passive Design Strategies
 - Active Design Strategies
 - ❖ Conclusion

- **Singapore's Green Building Legislative Framework**

- ✚ Delivered by Ar. Kuan Chee Yung, GMAP

- Coverage Areas:

- ❖ Green Buildings in Singapore – Singapore Green Building Masterplan
 - ❖ Regulatory Requirements:
 - Code for Environmental Sustainability in Buildings
 - Applicable Building Projects
 - Exceptions
 - Applicability
 - ❖ Revised Compliance Framework
 - Base requirement
 - Carbon reduction measures
 - ❖ Compliance and Building Typologies
 - Residential buildings
 - Non-residential buildings
 - Mixed-use buildings
 - Simple structures and specific function buildings
 - ❖ Regulations in Depth

- Base requirement for residential and non-residential buildings
 - Carbon reduction measures for non-residential buildings
- **Introduction to Green Mark 2021 (GM:2021)**
 - ✚ Delivered by Building and Construction Authority (BCA)
 - Coverage areas:
 - ❖ About the BCA Green Mark 2021
 - ❖ About the BCA Green Mark 2021 In Operation
- **Green Building Trends & Developments**
 - ✚ Delivered by World Green Building Council (WorldGBC)
 - Coverage areas:
 - ❖ Global Tools & Frameworks
 - Introduction to Benchmarking, Reporting Tools
 - Introduction to Green Building Rating Tools
 - ❖ World Green Building Council: Key Programmes
 - Introduction to WorldGBC
 - Key WorldGBC Programmes driving built environment sustainability

APPLIED LEARNING WORKSHOP OUTLINE

- In-Person Format (3-hour programme)
 - ✚ Delivered by Ms Joy Gai, GMAAP and Temasek Polytechnic as the Delivery Partner
 - Introduction to Green Mark Professional Qualification Scheme by SGBC
 - Recap of Green Mark Associate Course Content by Joy Gai
 - Sharing on NUS SDE4 Case Study
 - Learning Journey to Temasek Polytechnic Green Buildings
 - Tabletop Green Building Retrofit Exercise & Sharing