BCA ACADEMY

Introduction to Smart Building Management System for FM Practitioners

E-LEARNING

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

ONLINE LEARNING VIA WEBINAR:

DATES: 12 & 13 Apr 2022

TIME: 9.00am to 5.30pm

DELIVERY MODE: e-learning via webinar and BCAA Learning Management System (LMS)

FEES (incl of GST):

S$1,400.00 (without funding)

S$484.11# (with WTU funding support for eligible participants)

 # For more information on the funding requirement, please refer to https://www1.bca.gov.sg/buildsg/buildsg-transformation-fund/workforce-training-and-upgrading-scheme-wtu

WTU funding will be transited to SSG funding from 1 Apr 2022. Details of SSG's funding can be found in https://www.enterprisejobskills.gov.sg/content/upgrade-skills/course-fee-and-absentee-payroll-funding.html

AWARD

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

CPD POINTS

PEB: -

INTRODUCTION

With increasing adoption of digitalisation and Smart Facility Management, the desire of FM Practitioners for improved efficiency and effectiveness has never been greater. An integrated and optimised Building Management System also knows as Building Automation System works on cohesive digitalised communication network including communication controllers and web-enabled network to manage, control and monitor the sub-systems within a building to achieve energy efficient and comfortable environment for productivity workflow gain.

OBJECTIVES

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

- Describe the fundamentals a BMS
- Identify the types of communication protocol, features and functions
- Describe how HVAC systems integrate with BMS and controls are used
- Explain logic programming and identify basic programming techniques
- Review data trends
- Identify the ways cloud based BMS is changing the SMART FM industry

CONTENTS

BASICS OF BUILDING MANAGEMENT SYSTEM

- Introduction to BMS, IBMS & Intelligent Buildings
- Components of BMS
- Features and Functionality
- Basic Instrumentation & Measurement in BMS
- Sample BAS architecture

COMMUNICATION PROTOCOLS

- Types of sensors – Purpose & Functionality
- Communication Techniques
- Basics of Networking

BMS SYSTEMS

- HVAC-Environment-Systems-Controls
- Control Elements
- Control Systems
- Air handling Unit and BMS – Example
- Water Cooled Chillers and BMS - Example

INTERPRETATION OF LOGIC PROGRAMMING

- Data Flow Analysis
- Module and Logic Block Analysis
- Modify a Standard Application
- Troubleshooting Tips
- Overview of Controller Configuration Tool Concepts
- Setpoint Determination
- State Based Control

BMS ADVANCED FEATURES

- Scheduling
- Alarms
- Trending

FUTURE OF BMS

- Overview of new IoT platform - Cloud-based BMS
- Tagging Schema - Brick, Haystack
- Cybersecurity

LECTURERS

Expert trainers/practitioners from leading global organization in the built environment

TARGET AUDIENCE

Facilities Technician, Technical Officer / Executive, Building Supervisor, Building Officer / Facilities Officer / Property Officer, Building Executive / Facilities Executive / Property Executive and Facilities Manager / Facilities Engineer

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 **80072**