

Maintenance of Electrical Equipment for FM Personnel



E-LEARNING

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

ONLINE LEARNING VIA WEBINAR:

DATE: 20 Oct 2020

TIME: 9.00am to 5.00pm

PLATFORM: BCAA Learning Management System (LMS)

FEE (incl of GST): S\$395.00

TARGET AUDIENCE

All FM personnel, managing agents, M&E designers, contractors and others who are non-electrical trained but wish to acquire knowledge on maintenance of electrical equipment.

AWARD

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

CPD POINTS

PEB: Pending

INTRODUCTION

Proper operation and maintenance of major electrical equipment becomes important to increase equipment reliability, extending equipment lifetime and ensuring high levels of health and safety for building users and operation as well as maintenance personnel.

This course aims to provide awareness of the maintenance practices of an electrical installation for FM personnel and non-electrical engineers required to carry out building maintenance works.

OBJECTIVES

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

- i. Know the types of electrical equipment
- ii. Acquire knowledge in the maintenance of electrical installation

CONTENTS

- **Introduction**
- **Statutory requirements for electrical scope**
 - Workplace Safety and Health Act
 - The Electricity Act (Cap. 89A) and Regulations 2002 and the Electricity (Electrical Worker) Regulations 2002
- **Electrical switchgear**
 - Recommended maintenance programme
- **Transformers**
 - Maintenance programme
- **High voltage power cable**
 - Preventive and predictive maintenance
 - Testing methods
- **LV switchboards**
 - Components – Circuit breakers, busbars, busbar chambers, terminal connections
- **Low voltage electrical installation**
 - Types of testing
- **Recommended maintenance programme**
 - Maintenance frequency matrix
 - Maintenance records and test results

TRAINER PROFILE

Er. CHAN HENG LIM holds a B.Eng (Hons) degree in Electrical & Electronic Engineering from the University of Aberdeen, UK and a postgraduate certificate in Teaching in Higher Education. He has more than 20 years of working experience in Power Plant Operation, Factory Automation, and Electrical System Design.

He was the Vice President with an established consultancy company responsible for the design and management of electrical building services for infrastructural development, healthcare facilities, institutional building, commercial and residential buildings. Subsequently, he held a post of Deputy Director with a Government agency responsible for the standardization of guidelines and establishment of good practices for healthcare infrastructure.

Er. Chan is a registered Professional Engineer (Electrical) in Singapore, Chartered Engineer (UK), International Professional Engineer (UK), Chartered Professional Engineer (Australia), APEC Engineer, ASEAN Chartered Professional Engineer (ACPE) and European Engineer (Euring). He is a Licensed Electrical Engineer registered with EMA and a certified Green Mark Professional.



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 **80022**