



# Data Centre Operation and Maintenance for Engineers and Managers



### **Course Highlights**

- A practical workshop introducing modern data centre's operation and maintenance strategies through case studies and experience sharing
- 6 hours CPD accredited by the Institution of Data Centre Engineers (IDCE)
- Certificate holders fulfilled relevant requirements are eligible to apply for Member of the Institution of Data Centre Engineers (MIDCE)

Programme code	10014352-11
Date and time	4 Dec 2023 (Mon) 9:30 - 17:00
Venue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
Language	Cantonese (supplemented by English and with English handouts)
Course fee	HK\$2,300 HK\$2,070* *Group enrolment of 2 people or above; OR Enrolment on or before 20 Nov 2023; OR Members of Co-organiser/ members of supporting organisation

#### Introduction

A data centre is designed to provide uninterrupted infrastructure services for data processing operations. It consolidates information technology resources to enable computerised services, applications and transactions.

Many IT professionals and facility managers are challenged with enhancing data centre performance while saving the maintenance and operation costs.

Realising the importance of the profession, Hong Kong Productivity Council and the Institution of Data Centre Engineers jointly organised this course to further explore plant operation management and M&E topics of data centres.



## Data Centre Operation and Maintenance for Engineers and Managers



- Know how to respond to emergencies such as power outage and cooling failure.
- Understand the operation of Uninterruptible Power Supplies (UPS) and Computer Room Air Conditioner (CRAC) systems, and other Mechanical & Electrical (M&E) plants.
- Learn and apply maintenance strategies.
- Know how to resolve complex system breakdowns.
- Ensure the working order of maintenance in computer rooms

## Who should attend

This course is designed for:

- Engineers, managers and contractors who are responsible for highly critical systems like UPS and CRAC systems, etc. in data centre.
- Data Centre engineers and managers from the industries of banking, financial investment, IT.

## **Advisory Board**

#### **Board Director**

**Dr C M KWAN** - The Chairman & Chief Assessor of Institution of Data Centre Engineers BScEng(Hons), DBA, CEng, FCIBSE, FHKIFE, FIDCE

Executive Board Member
Mr Wallace CHAN
BEng, MBA, MSc, FHKIConstE, MIEE

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Inquiry

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Course Content		
Emergency Operation and Response	8. Common Breakdowns and Resolutions	
Emergency response, emergency crisis management, emergency power supply schematics	failure, CRAC breakdowns, no cooling water from building, no condenser water from building, AC unit	
2. M&E Plant in General	break down, temperatures too high or too low, Very Early Smoke Detection Apparatus (VESDA) system	
Basic M&E plant systems and typical communication room systems, business premises selection checklist, M&E Planned Preventative Maintenance (PPM) programme	system problem, water leak, lighting and power	
3. Mission Critical Systems	9. Office Area Maintenance	
	Building services, HVAC works, fire services, plumbing and drainage, lighting & power, builders work, decoration works, architectural works, structural works	
4. Maintenance Management	10. Preventive Maintenance	
Type of maintenance, different applications and maintenance policy, various plant systems inside coms room, preventive maintenance schedules, nude site survey		
5. Individual Plant in Details	11. Special Topic 1 - CRAC Systems	
	Cooling methods, air-cooled plant schematics, water cooled or air cooled, cooling towers, chilled water cooled, chilled schematics, CRAC construction, CRAC operations, CRAC maintenance checklist, routine checking, CRAC PPM	
6. Operation & Maintenance Strategy	12. Special Topic 2 - UPS system	
Time Institute Tier system, maintenance principles, data		
7. Individual Plant in Details	New Additions	
Heating, Ventilation, and Air Conditioning (HVAC) systems, lighting & power, plumbing & drainage, fire systems revisit, M&E Handover documentation, vendor performance evaluation	Coordination and Communication, DC Documentations, Business Continuity Planning (BCP) & Drills, Energy & Efficiencies, Environmental, Health and Safety (EHS), Problem Diagnosis, Support & Outsourcing, Training, Vendor Management, New ups & CRAC equipment, etc.	



# **Data Centre Operation and Maintenance for Engineers and Managers**

Course Details	
Methods of Teaching	Lectures with class exercises, case studies, experience sharing and/or videos etc.
Speaker(s)	All instructor(s) are Chartered Engineer (CEng) or have obtained a Bachelor's Degree in a relevant engineering discipline with over 20 years of relevant working experience.
Award of Certificate	Participants who have attended the course will be awarded a Certificate of Attendance by HKPC and IDCE.
Recognition of Certificate	The course is accredited by the <b>Institution of Data Centre Engineers (IDCE)</b> . Holder of this Certificate of Attendance will be recognised to have possessed the Professional Development Record (equivalent to Continuing Professional Development Record) of IDCE and fulfilled the academic requirement to apply for member of IDCE (MIDCE), provided that they have sufficient work experience.

### **Enrolment methods**

- 1. Scan the QR code to complete the enrolment and payment online; OR
- 2. Mail the crossed cheque with payee name "Hong Kong Productivity Council" (in HK dollar) and the application form to HKPC Academy, Hong Kong Productivity Council, 1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (attention to Ms Fannie KWOK).

Please indicate the course name and course code on the back of the cheque and envelope.



**Enrolment Link** 

**Supporting Organisations** 





