



Certified Data Centre





Certified Data Centre Management Professional (CDCMP®)

Program Overview

Gain unparalleled knowledge, skills and competency to manage the complex technical environments of a data centre facility and the ability to optimise its effectiveness by driving efficiencies. Create a credible business strategy and apply strong leadership to maximise the operational capability of the data centre whilst continuing to meet the on-going demands of the business.

The five-day Certified Data Centre Management Professional (CDCMP®) is a comprehensive program that investigates the functionality of all elements of a data centre facility and the relationships and dependencies between them, with a focus on maintaining consistent reliability, security and integrity of data and the availability of service.

Opening with a solid grounding in the basic design principles, the program progresses to provide an overview of the physical infrastructure elements, through to an understanding of the project management methodology required to deliver complex data centre projects.

It also explores the efficient management of the often conflicting operational and maintenance demands required of the data centre plant to continuously deliver the business needs. The challenges of regulatory compliance, data centre strategies and audit demands are also thoroughly examined. Real-life case studies are used to demonstrate putting theory into practice.

A certified CDCMP® also considers the requirements for compliance, having a full understanding of national and international regulations, codes and standards. During the program, learners will be provided a valuable opportunity to access the latest industry standards.

Following this program, you are encouraged to continue your professional development by advancing your knowledge and skills to gain further official certifications and qualifications by progressing through The Global Digital Infrastructure Education Framework which maps education programs to career advancement throughout the network infrastructure and data centre sectors.

" What a fantastic program, great material, great instructor and great in class network. It was good to meet other industry professionals and discuss data centre management practices. 99 DATA CENTRE MANAGER

Certified Data Centre Management Professional (CDCMP[®])

5 DAY PROGRAM

Program Duration

5 day class requiring pre-class study of approximately 20 hours.

Learner Profile

The program is designed for individuals wishing to enhance their ability to strategically manage, control and improve the operational effectiveness

Pre-requisites

Experience of working within a data centre environment is essential; preferably with two years experience in a technical IT or operations role. If you would like to discuss your experience or suitability for this program please contact us.

Program Requirements

Learners are required to undertake pre-class study, which is fully supported by an experienced and dedicated online Tutor. Learners are also required to have a webcam enabled laptop or suitable device with unrestricted wireless internet connectivity, the latest internet browser and suitable applications for reading/appotation and suitable applications for reading/annotating PDFs and editing standard office documents.

Program Objectives

Upon completion, successful learners will have an unrivalled knowledge of how to effectively manage a data centre environment to optimise its effectiveness in a more efficient manner whilst meeting the strategic operational demands of the

Qualification

Internationally and industry recognised BTEC Level 5 Professional Award Certified

Certification

- Official Certified Data Centre Management Professional (CDCMP[®]) certification Use of CDCMP post nominal title

- Use of the official Certified Data Centre Management Professional (CDCMP®) Digital Badge

Certifications are a commitment to life-long learning and offer the perfect portal to ensure knowledge, skills and certification remain current and up-to-date. Each certification gained requires

- Additional Awards ► Continual Professional Development (CPDs) ► 7 IEEE Continual Education Units (CEUs)

CDCMP® Benefits for Individuals

CDCMP® Benefits for Businesses

- The ability to develop a management strategy that aligns with the business operational requirements
- Recognises the need to develop a multi-disciplinary team supporting all operational functions of the data centre
- Can identify the processes within data centre operations that ensure consistent reliability, security and integrity of data and the availability of service.
- Establish confidence that the data centre manager is competent to strategically manage data centre processes and procedures through continual improvement planning to meet the operational demands of the business
- Confidence that the data centre manager can build a strong team to effectively deliver all operational requirements to ensure maximum service uptime
- Ensures that service levels agreements and key performance indicators are consistently met, to establish and improve customer satisfaction

Legislation and Regulations

Computer Misuse Act

Electricity regulations

Building and regulations

Environmental legislation

- Green Grid maturity model

Standards and Accreditations

National and international standards

Building Research Establishment

Environmental Assessment Method

Design (LEED) ISO 50001 & 14001

Defining the business requirement

Auditing the Data Centre Physical

Evaluating the key environments

What should be audited?

Potential risk evaluation

Health and Safety

FU code of conduct

Codes of Practice

Accreditations

(CEEDA)

(BRFFAM)

The Audit Process

What is an audit?

Audit outcomes

Infrastructure

Audit guidance

Commissioning

Trend analysis

Functional testing

Performance Audits

Environmental Audits

Asset Management

Bin analysis

Site specific activities

Recommended practices

Current industry metrics

The need to measure and monitor

Asset management strategy and life cycle

There are a number of group and individual

management based case studies throughout this

Modelling calculations

Site specific monitoring

Energy use and monitoring

Areas of asset management

Asset management tools

Professional Program Review

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program.

Uptime Institute

Freedom of Information Act

Cloud service provider legislation

General Data Protection Regulation (GDPR)

Electricity at work regulations, national electrical

DOE DCEP (Data Centre Energy Practitioner)

Certified Energy Efficient Data Centre Award

Leadership in Energy and Environmental

Data protection

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Certified Data Centre Management Professional (CDCMP®) Topics

CDCMP[®]

- What is a Data Centre?
- Data centre definition
- Data centre options
- Business demands
- Growth and demand challenges

Understanding Basic Design Principles

- Identifying the business need
- Building a business case
- National and international standards
- Site and building considerations
- Tier levels
- Criticality and availability
- Determining data centre capacities
- Physical Infrastructure
- Power infrastructure
- Static and automatic transfer switches
- Measuring and monitoring
- Cooling infrastructure
- Cooling management options
- Cable infrastructure considerations
- IT systems and services
- Storage management
- IT security
- Access and security

Implementing Data Centre Projects

- Business case
- The project cycle
- Prioritisation of activities
- Triple constraints
- Customer value
- Quantitative risk analysis
- Rolling wave planning
- Decomposition
- Change management
- Documentation

Managing the Data Centre

- Regulations, standards, processes
- Service management frameworks
- Service life cycles
- OLA, SLA and KPIs
- Process and procedures:
- Moves, adds, changes
- Energy efficiency
- System availability
- Decommissioning
- Transformation programs
- Consolidation
- Virtualisation
- Cloud computing
- Relocation
- Data Centre facility management
- Facility operations
- Building Management Systems (BMS)
- Fire safety compliance
- ► Fire suppression

Purpose

- The data centre stack
- The key constraints (power, cooling, space and IT connectivity)
- System availability
- Efficiency metrics
- Importance of commissioning
- Importance of capacity management
- Managing initial design principles

Management of Processes

- Introduction to ITIL
- DCO & FM framework
- Key performance indicators (KPIs)
- RACI matrices

Management of People

- Appreciation of different skill-sets
- Creating a multi-disciplinary team
- Constructing a data centre team

Management of Plant

- Management of plant overview
- Power management
- IT environment management
- Cooling management

Energy Efficiency

- Understanding what is attainable and prioritisation
- Efficiency demands
- Efficiency measures
- Validation of processes and procedures
- Management of Services
- Management of SLA's
- Data centre service management
- Automated tools
- Activity planning

Business Strategy

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IT Strategy

Execution plan

Data centre strategic context

IT strategy framework

Portfolio management

Supporting strategy examples

Security and access control

Supporting Strategies

Power continuity

Finance

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Fire safety

Cleaning

Cooling continuity

Strategic planning

The impact on the data centre

Drivers for the business and IT strategies

The link between business and data centres

Strategic planning processes and techniques

Business continuity/disaster recover

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Aligning IT with the business strategy