



Certified Data Center Management Professional (CDCMP®)

Gain unparalleled knowledge, skills and competency to manage the complex technical environments of a data center facility and the ability to optimize its effectiveness by driving efficiencies.

Program Overview

Create a credible business strategy and apply strong leadership to maximize the operational capability of the data center whilst continuing to meet the ongoing demands of the business.

The five-day Certified Data Center Management Professional (CDCMP®) is a comprehensive program that investigates the functionality of all elements of a data center 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 center projects.

It also explores the efficient management of the often conflicting operational and maintenance demands required of the data center plant to continuously deliver the business needs. The challenges of regulatory compliance, data center 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.

The CDCMP® program is led by one of CNet's expert Instructors and is available via remote attendance or classroom-based.



The Global Leader in Technical Education for the Digital Infrastructure Industry

Program Duration

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

Program Objectives

Upon completion, successful learners will have an unrivaled knowledge of how to effectively manage a data center environment to optimize its effectiveness in a more efficient manner whilst meeting the strategic operational demands of the business.

Learner Profile

The program is designed for individuals wishing to enhance their ability to strategically manage, control and improve the operational effectiveness of a data center environment.

Pre-requisites

Experience of working within a data center 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 support team.

Learners are required to have:

- A webcam and microphone enabled laptop with unrestricted wireless internet connectivity and a preinstalled web browser
- A suitable application for reading/annotating PDFs and a suitable application for editing standard office documents such as Microsoft Word, PowerPoint, and Excel

Qualification

 Internationally and industry recognized Pearson BTEC Level 5 Professional Award in Certified Data Center Management Professional

Certification

- Official Certified Data Center Management Professional (CDCMP®) certification
- ► Use of the CDCMP post nominal title
- ► Use of the official CDCMP[®] digital badge
- ► Use of the CDCMP[®] logo

Certifications are a commitment to lifelong learning and offer the perfect portal to ensure knowledge, skills and certification remain current and up-to-date. Each certification gained requires re-certifying every three years via an online learning management system.

Additional Awards

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

"What a fantastic program: great material, great Instructor

and great in class network. It was also good to meet other industry

professionals and discuss data center management practices."

CDCMP® Learner Comment

Certified Data Center Management Professional (CDCMP®) Topics

What is a Data Center?

- Data center definition
- Data center 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
- availabilityDetermining data
- center 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 Center Projects

- Business case
- Business case
- ► The project cycle
- prioritization of

operational requirements

operational functions of the data center

- activities
- Triple constraints
- Customer value
 Quantitative risk
- analysis
- Rolling wave planning
- Decomposition
- Change management
- Documentation

Managing the Data

Center

- Regulations, standards and processes
 Service management
- Frameworks
- Service lifecycles
- ▶ OLA, SLA and KPIs
- Process and procedures:
 - Moves, adds, changes
- Energy efficiency
- System availability
- ▶ Decommissioning
- Transformation
- programs
- Consolidation
- Visualization
- Cloud computing
- RelocationData Center facility
- management
- Facility operations
 Building Management Systems (BMS)
- ► Fire safety
- compliance
- ► Fire suppression

Purpose

CDCMP[®] Benefits for Individuals

- The data center stackThe key constraints
- (power, cooling, space

> The ability to develop a management strategy that aligns with the business

▶ Recognizes the need to develop a multi-disciplinary team supporting all

Can identify the processes within data center operations that ensure consistent reliability, security and integrity of data and the availability of service

and IT)

- System availability
- Efficiency metrics
 Importance of
- commissioning ► Importance of capacity
- management
 Managing initial design principles

Management of

- Processes
- Introduction to ITIL
 Key performance
- indicators (KPIs)
- RACI matrices
- Management of People
- Appreciation of different skill sets
- Creating a multidisciplinary team
- Constructing a data center team
- Management of Plant ► Management of plant
- overview Power management
- IT environment management
- Cooling management
- Energy Efficiency ► Understanding what
- is attainable and
- prioritizationEfficiency demands
- Efficiency measures
- Validation of processes and procedures
- Management of Services
- Management of SLAs
- Data center service

management Automated tools (GDPR)

Freedom of

legislation

Computer misuse act

Cloud service provider

Electricity regulations

regulations, national

Electricity at work

electrical code

Health and Safety

Environmental

Codes of Practice

EU code of conduct

DoE DCEP (Data Center

Energy Practitioner)

- Green Grid maturity

international standards

Efficient Data Center

Assessment Method

Leadership in Energy

and Environmental

Design (LEED) ISO

50001 and 14001

legislation

model

Standards and

Accreditations

National and

Accreditations

Uptime Institute

Certified Energy

Award (CEEDA)

Building Research

Establishment

Environmental

(BREEAM)

The Audit Process

CDCMP[®] Benefits for Businesses

planning to meet the operational demands of the business

Establish confidence that the data center manager is competent to strategically

Confidence that the data center 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

manage data center processes and procedures through continual improvement

Building and

regulations

information act

▶ What is an audit?

requirement

What should be

Audit outcomes

Audit guidance

audited?

Defining the business

Potential risk evaluation

Auditing the Data Center

Physical Infrastructure

▶ Site specific activities

Evaluating the key

Functional testing

Performance Audits

Modeling calculations

Environmental Audits

The need to measure

▶ Site specific monitoring

Current industry

environments

Trend analysis

practices

metrics

▶ Bin analysis

and monitor

Energy use and

Asset Management

Asset management

Asset management

There are a number of group

and individual management

based case studies throughout

strategy and lifecycle

monitoring

Areas of asset

tools

this program.

management

Recommended

Activity planning

Business Strategy ► Data center strategic

- context ▶ Strategic planning
- Drivers for the business
- and IT strategiesThe impact on the data center
- Aligning IT with the business strategy

▶ IT strategy framework

Portfolio management

Supporting Strategies

Supporting strategy

Power continuity

▶ Cooling continuity

Security and access

▶ Business continuity/

disaster recover

protection regulation

Strategic planning

processes and

techniques

examples

▶ Finance

▶ Fire safety

control

▶ Cleaning

Legislation and

General data

Data protection

Regulations

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 IT Strategy
 The link between business and data

Execution plan

centers