MANAGEMENT



Certified Data Centre Management Professional

> Pearson BTEC Level 5 Professional Award

> > 5 Day Program

# **Certified Data Centre Management Professional (CDCMP®)**

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.

#### **Program Overview**

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

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 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 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 centre environment.

#### **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 support team.

Learners are required to have:

- A webcam and microphone enabled laptop with unrestricted wireless internet connectivity and a pre-installed 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 recognised Pearson BTEC Level 5 Professional Award in Certified Data Centre Management Professional

#### Certification

- Official Certified Data Centre Management Professional (CDCMP<sup>®</sup>) certification
- Use of the CDCMP post nominal title
- ▶ Use of the official CDCMP<sup>®</sup> digital badge
- Use of the CDCMP<sup>®</sup> 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 centre management practices."

**CDCMP®** Learner Comment

## Certified Data Centre Management Professional (CDCMP®) Topics

▶ Drivers for the

strategies

data centre

**IT Strategy** 

centres

business and IT

▶ The impact on the

Aligning IT with the

business strategy

The link between

Execution plan

business and data

▶ IT strategy framework

Portfolio management

**Supporting Strategies** 

Supporting strategy

Power continuity

Cooling continuity

Security and access

Business continuity/

protection regulation

Computer misuse act

Cloud service provider

Electricity regulations

regulations, national

Electricity at work

electrical code

Building and

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information act

disaster recover

Strategic planning

processes and

techniques

examples

▶ Finance

▶ Fire safety

control

Cleaning

Legislation and

General data

Data protection

Regulations

(GDPR)

Freedom of

legislation

regulations

Environmental

**Codes of Practice** 

DoE DCEP (Data

Centre Energy

Standards and

Accreditations

National and

standards

international

Accreditations

Uptime Institute

Certified Energy

Award (CEEDA)

Building Research

Establishment

Environmental

(BREEAM)

The Audit Process

▶ What is an audit?

requirement

audited?

Potential risk

evaluation

What should be

Audit outcomes

Auditing the Data

Audit guidance

Site specific activities

Evaluating the key

Centre Physical

Infrastructure

CDCMP<sup>®</sup> Benefits for Businesses

▶ 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

Defining the business

Efficient Data Centre

Assessment Method

Leadership in Energy

and Environmental

Design (LEED) ISO

50001 and 14001

▶ EU code of conduct

Practitioner) - Green

Grid maturity model

legislation

Health and Safety

environments

Trend analysis

practices

metrics

Bin analysis

and monitor

▶ Site specific

monitoring

monitoring

Areas of asset

tools

this program

management

Asset management

Asset management

There are a number of group

based case studies throughout

and individual management

strategy and lifecycle

▶ Energy use and

Asset Management

Recommended

Functional testing

**Performance Audits** 

Modelling calculations

**Environmental Audits** 

The need to measure

Current industry

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 levelsCriticality and
- availability ▶ Determining data
- centre capacities
- Physical Infrastructure ▶ Power infrastructure
- Static and automatic
- transfer switches
- Measuring and monitoring
- Cooling infrastructureCooling 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
- Managing the Data Centre
- Regulations, standards and processes
- Service management frameworks
- Service lifecycles
- OLA, SLA and KPIs
   Process and
- Process and procedures:
- Moves, adds,
- changesEnergy efficiency
- Svstem 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)
- 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
- ► 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 managementIT 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 SLAs
- Data centre service
- managementAutomated tools
- Automated tools
   Activity planning
- Business Strategy
- Data centre strategic
- context
- Strategic planning

# CDCMP<sup>®</sup> Benefits for Individuals

- 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