Certified Data Centre Management Professional (CDCMP®)

Duration: 5 Days   Course Code: CDCMP

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

Target Audience:

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.

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.

Prerequisites:

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.

Testing and Certification

Official Certified Data Centre Management Professional (CDCMP®) certification

Use of CDCMP post nominal title

Use of the CDCMP® logo

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 re-certifying every three years via an online learning management system.

Content:

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

■ AccreditationsuuUptime Institute

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

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

Legislation and Regulations :

Data protection

General Data Protection Regulation (GDPR)

Computer Misuse Act

Freedom of Information Act

Cloud service provider legislation

Electricity regulations

Electricity at work regulations, national electrical code

Building and regulations

Health and Safety

Environmental legislation

Codes of Practice :

EU code of conduct

DoE DCEP (Data Centre Energy Practitioner) - Green Grid maturity model

Standards and Accreditations :

National and international standards

■ AccreditationsuuUptime Institute

Certified Energy Efficient Data Centre Award (CEEDA)

Building Research Establishment Environmental Assessment Method (BREEAM)

Leadership in Energy and Environmental Design (LEED) ISO 50001 ; 14001

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:uuMoves, adds, changes

Energy efficiency

System availability

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

Data centre strategic context

Strategic planning

Drivers for the business and IT strategies

The impact on the data centre

Aligning IT with the business strategy

IT Strategy :

The link between business and data centres

IT strategy framework

Portfolio management

Execution plan

The Audit Process :

What is an audit?

Defining the business requirement

What should be audited?

Audit outcomes

Potential risk evaluation

Auditing the Data Centre Physical :

Infrastructure :

Audit guidance

Site specific activities

Evaluating the key environments

Commissioning

Functional testing

Trend analysis

Recommended practices

Performance Audits :

Current industry metrics

Modelling calculations

Bin analysis

Environmental Audits :

The need to measure and monitor

Site specific monitoring

Decommissioning	Supporting Strategies :	
■ Transformation programsuuConsolidation	Strategic planning processes and techniques	Energy use and monitoring
Virtualisation	■ Supporting strategy examplesuuPower continuity	Asset Management :
Cloud computing	Cooling continuity	Areas of asset management
Relocation	Finance	Asset management strategy and life cycle
■ Data Centre facility managementuuFacility operations	Fire safety	Asset management tools
Building Management Systems (BMS)	Security and access control	Professional Program Review
Fire safety compliance	Business continuity/disaster recover	There are a number of group and individual management based case studies throughout this program
Fire suppression	Cleaning	
Purpose :		

Additional Information:

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

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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