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# Certified Data Centre Management Professional

**Duration: 5 Days**    **Course Code: CDCMP**

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## 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.

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## 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.

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## 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.
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## 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?	The data centre stack	Legislation and Regulations :
Data centre definition	The key constraints (power, cooling, space and IT connectivity)	Data protection
Data centre options	System availability	General Data Protection Regulation (GDPR)
Business demands	Efficiency metrics	Computer Misuse Act
Growth and demand challenges	Importance of commissioning	Freedom of Information Act
Understanding Basic Design Principles	Importance of capacity management	Cloud service provider legislation
Identifying the business need	Managing initial design principles	Electricity regulations
Building a business case	Management of Processes :	Electricity at work regulations, national electrical code
National and international standards ■ AccreditationsuuUptime Institute	Introduction to ITIL	Building and regulations
Site and building considerations	DCO ; FM framework	Health and Safety
Tier levels	Key performance indicators (KPIs)	Environmental legislation
Criticality and availability	RACI matrices	Codes of Practice :
Determining data centre capacities	Management of People :	EU code of conduct
Physical Infrastructure	Appreciation of different skill-sets	DoE DCEP (Data Centre Energy Practitioner) - Green Grid maturity model
Power infrastructure	Creating a multi-disciplinary team	Standards and Accreditations :
Static and automatic transfer switches	Constructing a data centre team	National and international standards
Measuring and monitoring	Management of Plant :	AccreditationsuuUptime Institute
Cooling infrastructure	Management of plant overview	Certified Energy Efficient Data Centre Award (CEEDA)

Cooling management options	Power management	Building Research Establishment Environmental Assessment Method (BREEAM)
Cable infrastructure considerations	IT environment management	
IT systems and services	Cooling management	Leadership in Energy and Environmental Design (LEED) ISO 50001 ; 14001



Storage management	Energy Efficiency :	The Audit Process :
IT security	Understanding what is attainable and prioritisation	What is an audit?
Access and security	Efficiency demands	Defining the business requirement
Implementing Data Centre Projects	Efficiency measures	What should be audited?
Business case	Validation of processes and procedures	Audit outcomes
The project cycle	Management of Services :	Potential risk evaluation
Prioritisation of activities	Management of SLA's	Auditing the Data Centre Physical :
Triple constraints	Data centre service management	Infrastructure :
Customer value	Automated tools	Audit guidance
Quantitative risk analysis	Activity planning	Site specific activities
Rolling wave planning	Business Strategy	Evaluating the key environments
Decomposition	Data centre strategic context	Commissioning
Change management	Strategic planning	Functional testing
Documentation	Drivers for the business and IT strategies	Trend analysis
Managing the Data Centre	The impact on the data centre	Recommended practices
Regulations, standards, processes	Aligning IT with the business strategy	Performance Audits :
Service management frameworks	IT Strategy :	Current industry metrics
Service life cycles	The link between business and data centres	Modelling calculations

changes

Energy efficiency

System availability

Decommissioning

IT strategy framework

Portfolio management

Execution plan

Supporting Strategies :

Bin analysis

Environmental Audits :

The need to measure and monitor

Site specific monitoring

<ul style="list-style-type: none"> <li>■ Transformation programsuuConsolidation</li> </ul>	Strategic planning processes and techniques	Energy use and monitoring
Virtualisation	<ul style="list-style-type: none"> <li>■ Supporting strategy examplesuuPower continuity</li> </ul>	Asset Management :
Cloud computing	Cooling continuity	Areas of asset management
Relocation	Finance	Asset management strategy and life cycle
<ul style="list-style-type: none"> <li>■ Data Centre facility managementuuFacility operations</li> </ul>	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 :

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