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.

DATA CENTRE MANAGER
<table>
<thead>
<tr>
<th>CDCMP® Benefits for Individuals</th>
<th>CDCMP® Benefits for Businesses</th>
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<tr>
<td>The ability to develop a management strategy that aligns with the business operational requirements</td>
<td>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</td>
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<tr>
<td>Recognises the need to develop a multi-disciplinary team supporting all operational functions of the data centre</td>
<td>Confidence that the data centre manager can build a strong team to effectively deliver all operational requirements to ensure maximum service uptime</td>
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<td>Can identify the processes within data centre operations that ensure consistent reliability, security and integrity of data and the availability of service.</td>
<td>Ensures that service levels agreements and key performance indicators are consistently met, to establish and improve customer satisfaction</td>
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Certified Data Centre Management Professional (CDCMP®) Topics

### 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
- 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

### Supporting Strategies
- Strategic planning processes and techniques
- Supporting strategy examples
  - Power continuity
  - Cooling continuity
  - Finance
  - Fire safety
  - Security and access control
  - Business continuity/disaster recover
  - Cleaning

### 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 DECP (Data Centre Energy Practitioner) - Green Grid maturity model

### Standards and Accreditations
- National and international standards
- Accreditations
- Uptime 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

### 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
- Energy use and monitoring

### Asset Management
- Areas of asset management
- Asset management strategy and life cycle
- Asset management tools

### Professional Program Review
- There are a number of group and individual management based case studies throughout this program.

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