CDCPM®

Certified Data Centre Project Management

Pearson BTEC Level 5 Award

5 Day Program

CNet Training
An Uptime Education Company

Global Leading Technical Education
for the Digital Infrastructure Industry

Program Duration
5 days.

Program Format
75% Theory, 25% Case Study.

Program Objectives
CDCPM® certified individuals will possess unrivalled knowledge, expertise and capability to deliver complex data centre projects.

Learner Profile
This program is perfect for project managers seeking to employ their knowledge and skills within the data centre project environment. It is also ideal for those already working at a data centre looking to develop as a project manager.

Pre-requisites
Project management experience would be advantageous, along with previous experience in a relevant technical discipline. Learners at this level should be able to analyse, interpret and evaluate relevant information, concepts and ideas. Completion of the Certified Telecommunications Project Management (CTPM®) program would be an advantage. If you would like to discuss your experience or suitability for this program please contact us.

Program Requirements
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 Award Certified Data Centre Project Management

Certification
▶ Official Certified Data Centre Project Management (CDCPM®) certification
▶ Use of CDCPM post nominal title
▶ Use of the official CDCPM® digital badge
▶ Use of the CDCPM® 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
▶ Continuing Professional Development (CPDs)
▶ 3 IEEE Continual Education Units (CEUs)

Certified Data Centre Project Management (CDCPM®)

Establish a robust project baseline and a comprehensive plan for a complex, high value data centre expansion project that demonstrates an accurate interpretation of the project scope and focuses on delivering project success in support of business strategy.

Program Overview

Working as a critical member of a multi-disciplinary project team, you will make a significant impact by exhibiting strong leadership qualities, optimising tools and processes to implement effective stage management to ensure product quality and financial control.

Driven by the exponential demand for data processing and storage, and the need to bring services closer to the customer (the edge), the pressure to deliver additional data centre facilities is a constant challenge for owners and operators. Highly skilled and dedicated project managers provide the confidence that facilitates the extension, build and renovation of facilities that contribute to the expansion of the global data centre footprint.

The comprehensive Certified Data Centre Project Management (CDCPM®) program is designed to provide in-depth knowledge into the application of processes, procedures, skills, knowledge and experience to deliver successful data centre projects. The program first invites learners to evaluate the personal attributes that contribute to developing a successful project manager and prioritises the main characteristics to consider.

Successful project management requires clear visibility of the organisational strategy and recognition of the importance of gaining maximum contribution from all project stakeholders.

Situational awareness is key to proactivity, it enables managers to positively impact risk, have the foresight to accurately predict adverse outcomes and develop actions to prevent catastrophic failure of the project.

With a focus on a 'concept to closure' theme, the CDCPM® examines traditional principles and processes and tailors project management tools to the unique requirements of a critical infrastructure project. Tools such as Organisational Breakdown Structure (OBS), Work Breakdown Structure (WBS), Program Evaluation Review Techniques (PERT), Critical Path Analysis (CPA) and Earned Value Analysis (EVA) are all utilised throughout the program.

The program also examines the evaluation techniques that determine the success of the project, or the lessons that need to be learnt to improve future projects. This activity poses questions. Was the project completed on time/on budget? Was it completed to the right quality standard? Have the strategic business benefits been realised and was the risk profile managed effectively?

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

Certified Data Centre Project Management (CDCPM®) Topics

Data Centre Review:
- Data centre categories
- The 4 key constraints (the 4Cs):
  - Power
  - Cooling
  - Space
  - IT Infrastructure
    - Maintenance strategies

Data Centre Design Principles
- Examining opportunities for geographical location:
  - Live mapping natural disasters
  - Sustainability opportunities
  - Resource availability:
    - Power
    - Cooling
    - IT connectivity
    - People
      (skill sets)
    - Equipment
    - Transport
  - Cost effective solutions
  - Security
  - Local restrictions (e.g. noise pollution)
  - Local government incentives (e.g. financial, planning laws, etc.)
- Resilience modelling
- Cost
  - Construction costs
  - Operating costs
    - Power
    - Operations
    - Administration
    - Maintenance

The Multidisciplined Team
- Recognise key stakeholders, understand lines of communications and project escalation
  Engage with:
  - Strategic leadership
  - Workstream managers
  - Subject matter experts (SMEs)
  - The design team

- The implementation team
- Quality assurance
- Safety and security

Understanding the Data Centre Build Project
- Scope of works and review process (avoidance of scope creep)
- Business drivers
- Stakeholder relationships
- Technical deliverables
- Ongoing customer activities
- Project controls
- Contractual constraints and disturbances
- Utility and vendor services
- Communication
- Escalation management and decision making
- Documentation
- Project closure
- Measuring success
- Writing lessons learnt
- Improving organisational projects

Attributes of a Project Manager
- Understand management concepts
- Communication style (internal and external)
- Decision making
- Interpersonal relationships
- Delegation skills
- Ability to meet key project objectives
- Competence (appropriate technical knowledge)

Project Management Principles
- Appreciate the role of the project manager in a multi-disciplined high-value project
- Core principles
- Develop a clear understanding of the project objectives and critical deliverables
- Create a structured plan defining the pathway to achievement
- Monitor and manage project activities to maintain anticipated progress
- Evaluate performance and develop appropriate strategies

Project Management Processes
- Project scope development (needs to be agreed and baselined)
- Project estimation reviews
- Quality planning
- Quality control
- Change management process
- Configuration management processes
- Health and safety (including CDM)
- Stakeholder communications
  - Project meetings
  - Project reporting
- Project deviation
  impact analysis
  - Cost fluctuation
  - TCO, ROI
    re-alignment
  - Customer satisfaction
- Commissioning
- Handover procedure and customer training
- Project closure and payment

Project Management Tools
- Organisation and Work Breakdown Structures (OBS/WBS)
- Precedence diagramming (project plan/program)
- Program Evaluation Review Techniques (PERT)
- Critical Path Analysis (CPA)
- Earned Value Management (EVM)
- GANTT
  - Task planning
  - Resource levelling
  - Deconfliction
- Risk management
  - Risk Breakdown Schedule (RBS)
  - Quantitative Risk Management (QRM)
  - Risk Assumptions Issues and Dependencies (RAID)

CDCPM® Benefits for Individuals

- Develop competency in the use of a broad range of project management tools

- Gain technical knowledge and understanding of complex data centre build projects

- Increase confidence when interacting with project stakeholders

- Develop personal leadership and management attributes

- Demonstrate the ability to manage complex repeatable processes successfully

CDCPM® Benefits for Businesses

- Greatly improved business reputation through successful project delivery

- Reduce operational cost by delivering competent project management

- Demonstrate investment and development of the individual project managers and overall development of a successful team

- Create greater opportunities for repeat business from satisfied customers