

Certified Data Center Technician Professional (CDCTP®)



Excel in a highly skilled and efficient technical team charged with optimizing the operational capability and productivity of the data center to meet the evolving demands of the business.

Program Overview

Ensuring zero downtime within the mission critical data center environment involves employing highly competent and confident technicians who consistently demonstrate unrivaled technical knowledge and skills. High quality technicians are increasingly seen as a vital component to the smooth running of any data center operation.

The five-day Certified Data Center Technician Professional (CDCTP®) program is for individuals working within mission critical data center facilities. It explores the wide range of subjects relevant to the data center technician including a detailed breakdown of the data center operating environments and the four key constraints to its operational effectiveness (power, cooling, IT and space), the necessary operational

policies, procedures and compliance based on legislation, standards (national and international) and codes of conduct. During the program, learners will be provided a valuable opportunity to access the latest industry standards.

Certified technicians can foresee potential causes of failure honing an in-depth understanding of facility components and their operating parameters. In addition, technicians can identify, analyze, and remedy problems as they occur, quickly, decisively and accurately, avoiding potential high cost repairs and the risks associated with loss of service.

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

Program Duration
5 Days

Program Format
70% Theory, 30% Practical.

Program Objectives

CDCTP® certified individuals possess the knowledge, expertise and skills that are considered essential in ensuring that a data center facility is operated and maintained to the highest possible standards.

Learner Profile

This program has been specifically designed for individuals wishing to acquire skills of the highest caliber in order to carry out their technical data center duties. CDCTP® certification is beneficial to personnel who contribute to the day-to-day smooth operation of the mission critical facility.

Pre-requisites

Experience of working within a data center environment is essential. 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 recognized Pearson BTEC Level 4 Professional Award in Certified Data Center Technician Professional

Certification

Upon successful completion, candidates receive the Pearson BTEC Level 4 Professional Award in Certified Data Center Technician Professional (CDCTP®). Certification is achieved through modular multiple-choice exams, with a minimum passing mark of 70% required. All assessment criteria must be met to earn certification. Certified professionals can use the CDCTP® post-nominal title, official digital badge, and logo, with recertification required every three years. This certification ensures technicians have the skills to operate and maintain mission-critical data center environments effectively.

Additional Awards

- Continual Professional Development (CPDs)
- 5 IEEE Continual Education Units (CEUs)



TRAINING PARTNER

uptime
EDUCATION

DURATION

5 DAYS

MODE: ONLINE/F2F



Custommedia Sdn Bhd (210378-U)
Lot 1-G Jalan Kenari 13A Bandar
Puchong Jaya 47170 Puchong, Selangor
Malaysia
Tel: +603 8082 9680



+6011 5112 4480



enquiry@custommedia.com.my



Custommedia Academy



custommediaacademy.my

Custommedia© May 2025



Certified Data Center Technician Professional (CDCTP®) Topics

Data Center Fundamentals

- What is a data center?
- Understanding the basic design requirements
- Availability and resilience measures and practices

Compliance

- Codes and regulations
- National and international standards
- Industry guidelines and best practices
- Certification and accreditations

The Physical Infrastructure

The four key environments (power, cooling, IT and space)

Power

- Power infrastructure (data center electrical distribution)

Cooling

- Cooling infrastructure and airflow management
- Overview of different cooling system technologies

IT Connectivity

- Active network
 - Equipment configuration
 - Servers, software and services
 - Storage infrastructure
 - Data center networks
 - Distribution options
- Physical Network
 - IT cabinets and frames
 - Cable containment

- Data center topologies
- Structured wiring
- Fiber optical cabling

Space

- Relationship between white and gray space environments
- Physical security and access control

Working in the Data Center

Safety Consideration

- Risk assessment and method statements
- Environmental health and safety
- Personal protective equipment
- Life safety systems (fire detection and suppression)

Task Preparation

- Understanding the operation structure
- Operational processes and procedures
- Moves, Adds and Changes (MACs)
- Decommissioning
- Operational measuring and monitoring

Asset Management

- Management tools, administration
- Change management

Data Center Maintenance

- The need for maintenance
- Maintenance strategies
 - Preventative maintenance
 - Predictive maintenance
 - Reliability centered maintenance
 - Condition-based maintenance
- Power maintenance

- Cooling maintenance
- IT connectivity maintenance

Data Center Power Infrastructure

- Electrical safety
- Power infrastructure systems (distribution path and components)
- Back-up power infrastructures
- Earthing and bonding
- Measuring, monitoring and routine checks
- Benchmarking and data center metrics

Data Center Cooling Infrastructure

- Understanding the need for cooling
- Data center cooling architectures and systems
- Air cooling
- Economizer modes
- Liquid cooling
- Chilled water plant
- Cooling towers
- Measuring, monitoring and routine checks
- HVAC efficiency and Power Usage Effectiveness (PUE) relationship

There are a number of group and individual case studies throughout this program.

CDCTP® Benefits for Individuals

- Understands all aspects of data center operations including technical and physical constraints. Recognizes the dependencies on other workstreams, can plan work efficiently and avoid unnecessary delays
- Understands the benefits of carrying out physical inspections of data center components as a matter of routine. Adopts a proactive attitude and can identify potential equipment failures before they occur
- Understands the need to adhere to codes, legislation and standards and is focused on first-time compliance, avoiding unnecessary rework
- Recognizes the roles of others within the facility and can improve business processes through effective contribution to the right people and at the right level

CDCTP® Benefits for Businesses

- Have a technical team equipped with a broad knowledge of data center functions and operational processes enabling the business to function with optimum efficiency
- Significantly reduces the risk of failure by having knowledgeable and proactive technical staff capable of identifying signs of potential failure
- Having a technical team with a broad knowledge of codes, legislation and standards instils confidence that the data center can operate effectively whilst consistently meeting legal and contractual obligations
- Develop a technical team that is cognisant of the roles of their peers and managers ensuring efficient and timely passage of accurate information and thereby increasing productivity