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## Certified Data Centre Technician Professional (CDCTP®)

**Duration: 5 Days**    **Course Code: CDCTP**

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### Overview:

Learn how to increase the operational capability and productivity of the data centre to continually meet the demands of the business.

The Certified Data Centre Technician Professional (CDCTP®) program is aimed at the numerous technicians across the spectrum of mission critical data centre facilities. It provides a holistic understanding of the key environments and the dependencies and inter-dependencies they have upon one another.

The program is designed to address the need for a designation that allows individuals to demonstrate unrivalled levels of skill and knowledge and to assist them to become key operational assets in their organisation and data centre facility.

Ensuring zero downtime within a mission critical data centre environment involves having highly competent technicians who demonstrate unrivalled technical knowledge and skills. Those with CDCTP® certification are increasingly seen as a vital component to the smooth running of any data centre operation and this program gives learners the ability to identify, decipher, impact assess and remedy potential problems quickly, decisively and accurately.

This program explores the wide range of subjects relevant to the data centre technician including a detailed breakdown of the key operating environments (power, cooling, IT and supporting systems), the necessary operational policies, procedures and compliance based on legislation, standards (national & international) and codes of conduct, as well as detailed analysis of current measuring, monitoring and auditing techniques.

This is a content rich program where the technical content is continually updated to reflect developments covering installation, maintenance (routine and preventative planned) and decommissioning working practices. The CDCTP® also takes into account the requirements of the BS EN 50600 and TIA 942-B standards, industry best practice documentation and codes of conduct.

The CDCTP® program is classroom based and led by one of CNet Training's expert Instructors.

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### Target Audience:

This program has been specifically designed for individuals wishing to acquire skills of the highest calibre in order to carry out their data centre related activities. CDCTP® certification is beneficial to technical personnel who are responsible for the day-to-day smooth operation of the mission critical facility.

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### Objectives:

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

Experience of working within a data centre environment is essential. If you would like to discuss your experience or suitability for this program please contact us.

### Testing and Certification

Official Certified Data Centre Technician Professional (CDCTP®) certification

Use of CDCTP post nominal title

Use of the CDCTP® 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.

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## Content:

Core Unit:	Data centre topologies	Reliability centred maintenance
Data Centre Fundamentals	structured wiring	Condition-based maintenance
What is a data centre?	Fibre optical cabling	Power maintenance
Understanding the basic design requirements	Space	Cooling maintenance
Availability and resilience measures and practices	Relationship between white and grey space environments	IT connectivity maintenance
Compliance	Physical security and access control	Professional Unit:
Codes ; regulations	Working in the Data Centre	Advanced Power
National and international standards	Safety Consideration	Electrical safety
Industry guidelines and best practices	Risk assessment and method statements	Power infrastructure systems (distribution path and components)
Certification and accreditation	Environmental health and safety	Back-up power infrastructures
The Physical Infrastructure	Personal protective equipment	Earthing and bonding
The Four Key Environments (Power, Cooling, IT Connectivity and Space)	Life safety systems (fire detection and suppression)	Measuring, monitoring and routine checks
■ Power	Task Preparation	Benchmarking and data centre metrics
Power infrastructure (data centre electrical distribution)	Understanding the operation structure	Advanced Cooling
Cooling	Operational processes and procedures	Understanding the need for cooling
Cooling infrastructure and airflow management	Move, Adds and Changes (MACs)	Data centre cooling architectures and systems
Overview of different cooling system technologies	Decommissioning	Air cooling
IT Connectivity	Operational measuring and monitoring	Economiser modes
Active network	Asset Management	Liquid cooling
Equipment configuration	Management tools, administration	Chilled water plant
Servers, software and services	Change management	Cooling towers

Storage infrastructure	Data Centre Maintenance	Measuring, monitoring and routine checks
Data centre networks	The need for maintenance	HVAC efficiency and Power Usage Effectiveness (PUE) relationship
Distribution options	Maintenance strategies	There are a number of group and individual case studies throughout this program
Physical Network	Preventative maintenance	
IT cabinets and frames	Predictive maintenance	
Cable containment		

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### Additional Information:

Learners are 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.

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### Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

[training@globalknowledge.com.eg](mailto:training@globalknowledge.com.eg)

[www.globalknowledge.com/en-eg/](http://www.globalknowledge.com/en-eg/)

Global Knowledge, 16 Moustafa Refaat St. Block 1137, Sheraton Buildings, Heliopolis, Cairo