Certified Data Centre Professional (CDCP)

Category: Infrastructure & IT Operations | **Vendor:** EPI

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The course will address how to setup and improve key aspects such as power, cooling, security, cabling, safety, etc., to ensure a high available data centre. It will also address key operations and maintenance aspects.

About This Course

The course will address how to setup and improve key aspects such as power, cooling, security, cabling, safety, etc., to ensure a high available data centre. It will also address key operations and maintenance aspects.

Who Should Attend

The primary audience for this course is any IT, facilities or data centre professional who works in and around the data centre and who has the responsibility to achieve and improve the availability and manageability of the data centre.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

After completion of the course the participant will be able to: Choose an optimum site for mission-critical data centre based on current and future needs' Describe all components that are important for high availability in a data centre and how to effectively setup the data centre Name and apply the various industry standards' Describe the various technologies for UPS, fire suppression, cooling, monitoring systems, cabling standards, etc, and to select and apply them effectively to cost-efficiently enhance the high-availability of the data centre. Review the electrical distribution system to avoid costly downtime Enhance cooling capabilities and efficiency in the data centre by using existing and new techniques and technologies for the increased cooling requirements of the future Design a highly reliable and scalable network architecture and learn how to ensure installers apply proper testing techniques' Create effective maintenance contracts with equipment suppliers ensuring the best return on investment Setup effective data centre monitoring ensuring the right people get the right message Ensure proper security measures, both procedural and technical, are established to safeguard your company's valuable information in the data centre

Detailed Course Outline

The Data Centre, its Importance and Causes for DowntimeData Centre Standards and Best PracticesData Centre Location, Building and Construction

- Selecting appropriate sites and buildings and how to avoid pitfalls

  Various components of an effective data centre and supporting facilities setup

Raised Floor/Suspended Ceiling

- Uniform, concentrated and rolling load definitions

  Applicable standards

  Raised Floor guidelines

  Signal Reference Grid, grounding of racks

  Disability act and regulations

  Suspended ceiling usage and requirements

Light

- Standards

  Light fixture types and placement

  Emergency lighting, Emergency Power Supply (EPS)

Power Infrastructure

- Power infrastructure layout from generation to rack level

  ATS and STS systems

  Redundancy levels and techniques

  Three-phase and single-phase usage

  Power distribution options within the computer room

  Power cabling versus bus bar trunking

  Bonding versus grounding

  Common Mode Noise and isolation transformers

  Distribution boards, form factors and IP-protection grades

  Power quality guidelines

  Real power versus apparent power

  How to size and calculate load in the data centre Generators

  Static and dynamic UPS systems, selection criteria, how they operate and energy efficiency option

  Battery types, correct selection and testing

  Thermo-graphics

Electro Magnetic Fields

- Electrical fields and magnetic fields definitions and units of measurements

  Sources of EMF

  Effects of EMF on human health and equipment

  (H)EMP

  Standards

  EMF shielding solutions

Equipment Racks

- Rack standards, properties and selection criteria

  Security considerations

  Power rail/strip options

Cooling Infrastructure

- Temperature and humidity recommendations

  Cooling measurement units and conversion rates

  Sensible and latent heat definitions

  Differences between comfort and precision cooling

  Overview of different air conditioner technologies

  Raised floor versus non-raised floor cooling

  Placement of air conditioner units and limitations to be observed

  Supplemental cooling options

  Cold aisle/hot aisle containment

Water Supply

- Importance of water supply and application areas

  Backup water supply techniques

Designing a Scalable Network Infrastructure

- The importance of a Structured Cabling System

  Planning considerations

  Copper and Fiber cable technology and standards

  ANSI/TIA-942 Cabling hierarchy and recommendations

  Testing and verification

  SAN storage cabling

  Network redundancy

  Building-to-building connectivity

  Network monitoring system requirements

Fire Suppression

- Standards for fire suppression

  Detection systems

  Various total flooding fire suppression techniques and systems, their benefits and disadvantages

  Handheld extinguishers

  Signage and safety

  Regulatory requirements and best practices

Data Centre Monitoring

- Data centre monitoring requirements

  EMS versus BMS

  Water leak detection systems

  Notification options and considerations

Operational Security and Safety Practices

- Data centre security layers

  Physical, infrastructure and organisational security

  Safety measures and essential signage

Labelling

- Choosing a labelling scheme

  Recommended labelling practices

  Network labelling

Documentation

- How to setup proper documentation

  Document management policies and procedures

Cleaning

- Cleaning practices for the data centre

MTBF/MTTR

- Standards and definitions

  Calculation models

  The real value

Maintenance Contracts/SLA/OLAEXAM: Certified Data Centre Professional

Upcoming Schedule

Available training dates for Certified Data Centre Professional (CDCP):

Start Date	End Date	Location	Delivery	Price
07 Dec 2026	08 Dec 2026	Virtual Classroom - Link to be sent 7 days before date	Virtual	€1,890.00

Additional Course Details

Nexus Humans Certified Data Centre Professional (CDCP) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Certified Data Centre Professional (CDCP) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Certified Data Centre Professional (CDCP)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Certified Data Centre Professional (CDCP) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Certified Data Centre Professional (CDCP) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Certified Data Centre Professional (CDCP)?

Yes, we provide corporate training, dedicated training, and closed classes for Certified Data Centre Professional (CDCP). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Certified Data Centre Professional (CDCP)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Certified Data Centre Professional (CDCP) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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