



Data Centre Design training

A 3-day training course to focus on the best practices for the design and layout of a data centre or computer room

Using the practical experience derived by Capitoline from auditing and designing computer rooms and data centres comes this 3-day course that focuses on the best practices in the specification, sizing and design of computer rooms and data centres.

Every two weeks, somewhere in the world, a major data centre suffers a major breakdown and loss of availability with an average downtime of 17 hours. In nearly every case these breakdowns are avoidable with better design and procedures in place. The course is derived from our practical experience as auditors and data centre designers of large and small data centre both in the private and public sector in the UK, Ireland, Netherlands and the Middle East.

The course is based on best practices drawn from our own experience and relevant extracts from international engineering and business continuity standards such as

- TIA 942
- EU Code of Conduct on data centres
- Payment Card Industry security requirements
- BICSI 002
- The UpTime Institute
- ASHRAE
- EU Disability Discrimination Directive
- EN 50173
- EN 50174
- EN 50310

CAPITOLINE

DATA CENTRES AND IT INFRASTRUCTURE

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Course contents and objectives

- Introduction, including understanding Tier definitions and associated costs. TIA 942, ASHRAE and other Standards
- The 'Green Agenda'. Metrics for measuring data centre energy efficiency
- Sizing and defining the right data centre space
- Specifying raised access floors
- Optimising room layouts including hot aisle/cold aisle formats
- Sizing and designing a resilient power supply system including UPS and generator selection. N, N+1 and 2N models
- IT grade earthing, grounding and bonding
- Sizing and designing air conditioning plus modern low energy options
- Fire detection and suppression techniques appropriate to data centres
- Building Management and Physical Security requirements
- Data cable selection, copper and fibre, and ideal interconnect models

The Data Centre Design course (DCD) is an excellent precursor to our 2-day Data Centre Operational Management course (DCOM)

DCD + DCOM = Data Centre Expert

The courses are available in the UK, Netherlands, Belgium, Dubai, Mumbai and Bangalore and are also available on your own premises by request.



Is this the right course for you?

Ask for our ISO 9000 hour-by-hour lesson plan for full details

Who should attend

- IT managers and directors
- Data centre managers and directors
- Facilities managers
- Engineers and consultants involved in data centre specifications

Ask to see our reference list of the 300 companies that have attended this course

Prerequisites

There are no formal prerequisites for the course but attendees must be familiar with general IT and engineering practices

Qualification

- The course includes exercises and a final multiple choice test. Successful completion of the exercises and test leads to the Capitoline DCD certification
- Capitoline data centre engineering certification—DCD
- BICSI Continuing Education Credits (21)
- CIBSE Continuing Professional Development certificate



AMS-IX official auditor

DESIGN : AUDIT : TRAINING

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