

TRAINING TITLE

CERTIFIED DATA CENTRE DESIGN PROFESSIONAL

Training Duration

5 day

Training Venue and Dates

Ref. No. CSI51	Certified Data Centre Design Professional	5	26-30 May 2025	\$5,500	DUBAI, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- **\$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch**

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

The Certified Data Centre Design Professional (CDCDP) course provides in-depth knowledge of designing and building efficient, reliable, and scalable data centers. This certification course covers key design principles, infrastructure components, and industry standards to ensure that participants can design and maintain high-performance data centers.

TRAINING OBJECTIVES

By end of the course participants will be able to understand

- Understand the core principles of data center design and architecture.
- Learn about key infrastructure components like power, cooling, and networking.
- Understand industry standards, including Uptime Institute and TIA-942.
- Develop skills to design scalable, efficient, and energy-efficient data centers.
- Learn disaster recovery, business continuity, and security considerations in data center design.

WHO SHOULD ATTEND?

- Data center designers and architects
- IT professionals involved in data center operations
- Network engineers and system administrators

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- Facilities managers and engineers
- Anyone seeking certification in data center design

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

COURSE PROGRAM

Day 1: Introduction to Data Center Design

- Overview of data center types and functions
- Industry standards and guidelines (TIA-942, Uptime Institute)
- Key design considerations for reliability, scalability, and security

Day 2: Infrastructure Components – Power & Cooling

- Power distribution and backup systems
- Cooling systems: CRAC units, airflow management, and energy efficiency
- Designing for redundancy and fault tolerance

Day 3: Networking, Cabling, and Data Center Layout

- Network architecture and bandwidth considerations
- Structured cabling design for efficient data flow
- Physical layout and space planning for scalability and flexibility

Day 4: Data Center Security and Risk Management

- Physical and logical security measures
- Disaster recovery, business continuity, and backup systems

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- Risk assessment and mitigation strategies

Day 5: Practical Design, Case Studies, and Exam Preparation

- Review of real-world case studies
- Exam preparation and review of key concepts for the certification exam

NOTE:

Pre-& Post Tests will be conducted.

Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.



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