DCFC®

NETWORK TRAINING CENTER

epi

DATA CENTRE FOUNDATION CERTIFICATE

Introduction

The data centre sector is a fast growing part of the overall ICT industry. Driven by the ever growing need of integrated communication solutions, social media, online content and cloud enabled infrastructure, the industry keeps growing at a very fast pace and more data centres are being built to enable this growth.

Various industry reports indicate that there is a shortage of skilled data centre personnel. This shortage is created by the ever changing technology resulting in the current data centre personnel having "outdated" knowledge and skills as well as the expanding data centre market leading to a shortage of new data centre personnel. It is also often indicated by the industry that there is a gap between the skills of fresh graduates and the practical skills and knowledge required in today's data centre industry.

The Data Centre Foundation Certificate (DCFC®) is a 2-day course designed to deliver foundation knowledge about data centre facilities infrastructure. It provides participants with global overview and knowledge on data centres which will be of advantage to the participants who are looking at joining the ranks of professionals working in the data centre, ICT, infrastructure or the mechanical and electrical (M&E) design industries. It will also form a solid foundation for participants who wish to pursue his/her studies either academically or to further his/her industry specialisation with professional certification courses on data centre design/build, operations/governance and/or standards/compliance. With the tremendous growth of data and the data centres to support it, the demand for data centre professionals will grow in tandem.

Audience

The audience for this course is anyone who wants to acquire foundation level knowledge on data centre infrastructure. This course is ideally suited for data centre new hires, internal data centre support staff, IT support staff who work in the data centre, helpdesk staff, vendors/suppliers who install/maintain data centre equipment, building maintenance staff including data centre cleaners and other supporting functions, and fresh graduates. This course is also well suited for individuals working in data centre business support functions such as sales/pre-sales, HR, finance and business administration.
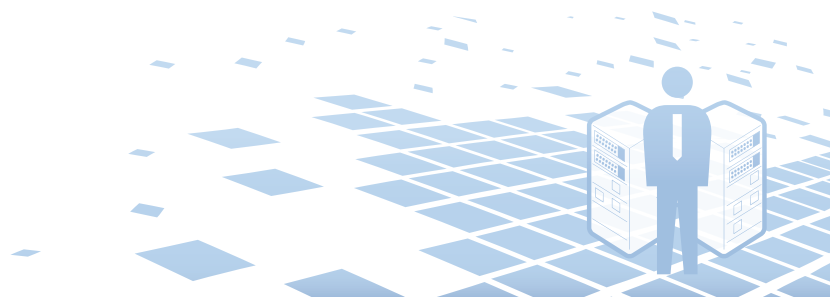
Global Accreditation

World-wide accredited by
EXIN

Course Benefits ☑

The DCFC® course will prepare participants for entry into the exciting and high-growth data centre industry. It will ensure that participants acquire the required basic knowledge to take on a wide variety of jobs in the data centre industry. It will also provide the required knowledge and skill to further their training into specialised areas on data centre design/build, operations/governance or standards/compliance.

Course Syllabus 📖

- **Introduction to Data Centres**
  - History of data centres
  - Definition of different type data centres

- **The Data Centre and its Relation to Business**

- **Data Centre Standards**
  - List of standards
  - Rating definitions

- **Data Centre Site Selection**

- **Data Centre Facilities Areas**
  - Listing of all areas and their functions

- **Topology Designs**
  - Definition of Ratings

- **Components of the Power Infrastructure**
  - Utility power
  - Transformers
  - Generators
  - Fuel systems
  - ATS
  - UPS systems
  - Batteries
  - Electric panels
  - Cabling/busbar systems
  - Power rails/strips

- **Lights**
  - Lights
  - Emergency lights

- **Cooling Infrastructure**
  - Chillers
  - DX Systems
  - Evaporators
  - CRAC/CRAU/HVAC
  - Raised floor
  - Non-raised floor
  - Containment

- **ICT/Network Infrastructure**
  - Equipment racks
  - Network cabling (fibre, copper)
  - Cable trays and pathways
  - TIA-606 labelling

- **Data Centre Security**
  - Perimeter security
  - Physical protection
  - CCTV
  - Access control
  - Security management

- **Fire Suppression**
  - Detection systems
  - Suppression systems
  - Prevention systems
  - Fire extinguishers
  - Fire Safety

- **Monitoring and reporting**
  - DCIM
  - EMS/BMS

Delivery structure

EPI courses are lectured by certified trainers. DCFC® is an instructor-led course that uses a combination of lectures and question-and-answer sessions. Participants are able to tap into the extensive real-world knowledge and experience from the trainers, therefore ensuring that the students are learning skills which are up-to-date and relevant today.

Examination

The exam is a 60-minute closed-book exam, with 40 multiple-choice questions taken online. The candidate requires a minimum of 24 correct answers to pass the exam.

Certification

Candidates who successfully pass the exam will receive the offcial Data Centre Foundation Certificate. The certification is valid for three years after which the student needs to re-certify.

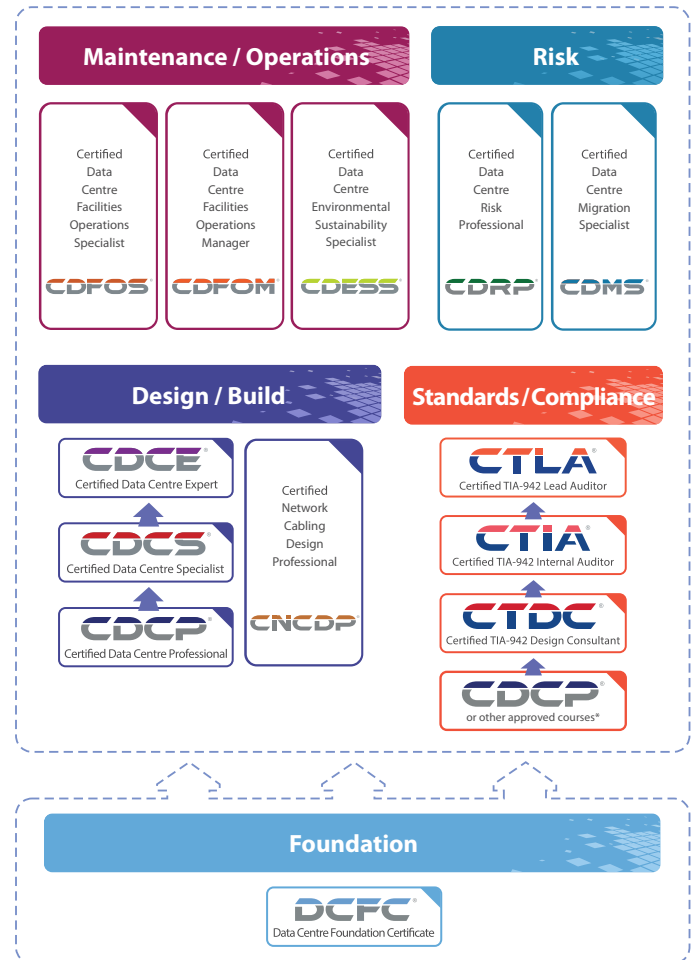## Global Accreditation & Recognition

The DCFC® course is accredited by EXIN, which is a global, independent and not-for-profit accreditation and examination provider. EXIN's mission is to improve the quality of the IT and data centre sectors, the proficiency of IT and data centre professionals and the IT users, by means of accreditation of course material as well as independent examination and certification.

Recommended next course

To further extend your skills in the data centre design arena, we recommend the CDCP® course. The CDCP® course addresses how to setup and improve key aspects of a data centre such as power, cooling, security, cabling, safety, etc, to ensure a high-available data centre. It will also address key operations and maintenance aspects. For full course outlines, visit the EPI website, www.epi-ap.com.

EPI Data Centre Training Framework©

The **EPI Data Centre Training Framework**© provides a structured course curriculum for individuals working in and around data centre facilities and data centre operational management. It addresses the various disciplines required to design and manage a high-availability, efficient data centre. EPI's data centre course curriculum is not only the first in the world, it is also by far the largest in the industry. Many companies have specified these courses as prerequisites for their staff working in and around the data centre and use them as part of their career planning initiatives. Recognised globally, these certifications add value to both companies and individuals.

Maintenance / Operations

Certified Data Centre Facilities Operations Specialist — CDFOS

Certified Data Centre Facilities Operations Manager — CDFOM

Certified Data Centre Environmental Sustainability Specialist — CDESS

Risk

Certified Data Centre Risk Professional — CDRP

Certified Data Centre Migration Specialist — CDMS

Design / Build

CDCE — Certified Data Centre Expert

CDCS — Certified Data Centre Specialist

CDCP — Certified Data Centre Professional

Certified Network Cabling Design Professional — CNCDP

Standards / Compliance

CTLA — Certified TIA-942 Lead Auditor

CTIA — Certified TIA-942 Internal Auditor

CTDC — Certified TIA-942 Design Consultant

CDCP — or other approved courses*

Foundation

DCFC — Data Centre Foundation Certificate

Protecting your interests

The Company

EPI is a data centre specialist company of European origin operating world-wide in over 60 countries through direct operations and a large partner network. EPI offers an extensive range of data centre services on auditing, certification and training. EPI's focus is on mission-critical, high-availability environments. Established in 1987, EPI has developed an international reputation for delivering high quality technical expertise, with flexible and innovative services, techniques and methodologies.

All our services are aimed at helping our customers to:
• Increase **Availability** of their mission-critical infrastructure
• Improve **Efficiency**, **Effectiveness** and **Manageability**
• **Minimise risk** of business interruption

Our Clients share a common need to protect their valuable data, run their mission-critical infrastructure efficiently and to be protected on a 24 x 7 basis. By protecting the interests of our customers, EPI is committed to an intensive program of comprehensive services development backed by engineering and support excellence.

Quality Systems and Procedures have always been at the heart of every stage of our service delivery to ensure consistent and high quality services. We are known for our thoroughness, flexibility and responsiveness. We focus on providing servicess that fit each organisation and each project with a drive to deliver quality on time, every time.

Let us put our expertise to work for you!

Data Centre Services

Audit & Certification
• Data Centre Standards
  - ANSI/TIA-942   - EN 50600
  - DCOS®   - ISO/IEC TS 22237

• Other International Standards
  - ISO 9001   - ISO/IEC 27701
  - ISO 14001   - ISO 37001
  - ISO 14644   - ISO 45001
  - ISO/IEC 20000-1   - ISO 46001
  - ISO 22301   - ISO 50001
  - ISO/IEC 27001   - PCI DSS

• Singapore Standards
  - SS 507   - DTPM
  - SS 564   - CBPR
  - SS 584   - PRP

Professional Training & Certifications
- Data Centre
  DCFC®, CDCP®, CDCS®, CDCE®, CNCDP®
  CDFOS®, CDFOM®, CDESS®, CDRP®, CDMS®,
  CTDC®, CTIA®, CTLA®

- IT
  CITO®, CITM®, CITD®

Non-Certification Training
- Digital Transformation

Frameworks
- IT&DCF® - IT & Data Centre Framework
- DCCF® - Data Centre Competence Framework
- DCTF® - Data Centre Training Framework
- ITTF - IT Training Framework

Standard
- DCOS® - Data Centre Operations Standard

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Global Headquarters:

Enterprise Products Integration Pte Ltd
37th Floor, Singapore Land Tower, 50 Raffles Place, Singapore 048623.

Tel: + (65) 6733-5900   E-mail: sales@epi-ap.com   Website: www.epi-ap.com
Local offices in : China, India, Italy, Japan, LATAM, Malaysia, Middle East, Pakistan, Singapore, The Netherlands, USA

Authorised Reseller/Partner:

Network Training Center Co., Ltd. (NTC)

177/1 BUI Bldg., 14th Fl., Unit 1,3&4, Surawongse Rd.,Suriyawongse,
Bangrak, Bangkok, THAILAND 10500   **www.trainingcenter.co.th**
Promotion please call +66 (0) 2634-7993-4 #11-18

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