



## DATA CENTRE FOUNDATION CERTIFICATE

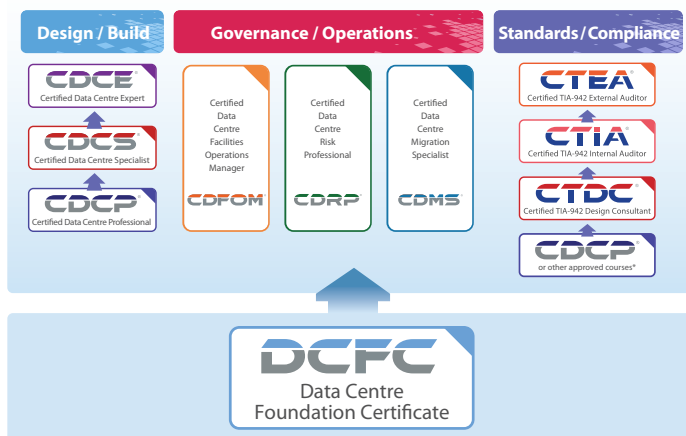
### Introduction

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 This shortage is created by the ever changing technology resulting in the current data centre personnel having “outdated” knowledge and skills as well as the expanding data centre market leading to a shortage of new data centre personnel.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.

### Roadmap



### Audience

The audience for this course is any student in colleges, universities or polytechnics pursuing diploma/degree related to ICT, Architectural, Electrical or Mechanical Engineering and Telecommunication fields of study. This programme is also a perfect fit those switching industries and want to enter the exciting data centre industry.

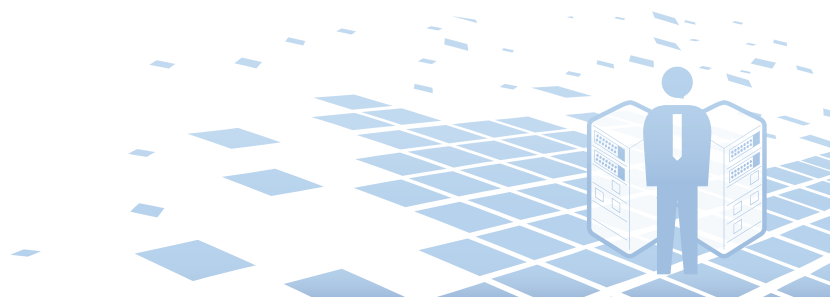
### Global Accreditation



### Course Benefits

The DCFC course will prepare students in higher education for entering the exciting and high growth data centre industry. It will ensure that students who enter the job market have 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 level to attend professional data centre training certification programmes such as the CDCP® and others in the EPI Data Centre Training Framework®.

- **History of Data Centres**
- **The Data Centre and its Relation to Business**
- **Data Centre Standards**
- **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
  - Electrical switch gear
- **Lights**
  - Lights
  - Emergency lights
- **Cooling Infrastructure**
  - Chillers
  - DX Systems
  - Evaporators
  - CRAC/CRAU/HVAC
  - Supplemental cooling
  - Containment
- **ICT/Network Infrastructure**
  - Racks
  - Network cabling (fibre, copper)
  - Cable trays and pathways
  - TIA-606 labelling
- **Data Centre Security**
  - Perimeter security
  - Physical protection
  - Access control
  - CCTV
  - 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

Certification exams are administered at the end of the course. 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. Exam results are known immediately and an online certificate will be presented in the student portal.

## Certification

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

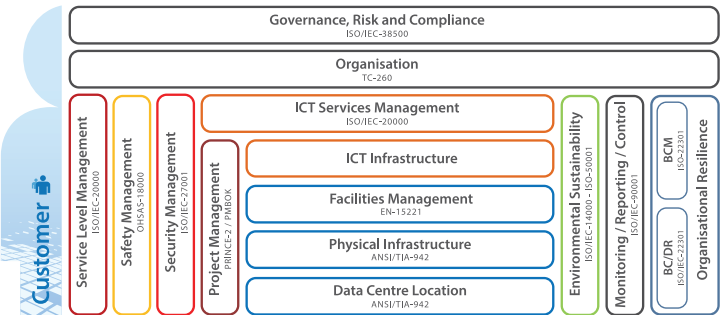
## Global Accreditation & Recognition

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](http://www.epi-ap.com).

## EPI Data Centre Framework®



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The EPI Data Centre Framework® provides data centre investors/owners/operators with a data centre ecosystem addressing all disciplines of a structured and fully managed data centre. The EPI Data Centre Framework® addresses not only the site selection, design and outfitting of its physical facilities but it also includes the governance and all processes required to organise and operate a data centre which meets the business requirements of its customers. It is the foundation for the design and development of all of EPI's data centre services and training programmes. For more information visit [www.epi-ap.com](http://www.epi-ap.com).



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