DCF

Data Centre Fundamentals

8 Hours Distance Learning Video Narrated or 1 Day Instructor-led

Data Centre Fundamentals

8 Hours Distance Learning or 1 Day Instructor-led

Learner Profile
This program has been designed for individuals who are either new to the data centre sector (technicians with limited experience or exposure to data centre facilities) or for those who sell products and services to the data centre sector. If you would like to discuss your experience or suitability for this program please contact us.

Pre-requisites
There are no specific pre-requisites for this program however some awareness of the data centre industry would be advantageous.

Program Requirements
As a distance learner, you will also require a webcam enabled laptop or suitable device with unrestricted wireless internet connectivity, the latest internet browser and a suitable application for editing standard office documents such as Microsoft Word, PowerPoint, and Excel.

Program Objectives
To provide an overview of the data centre sector, the functional requirements of the data centre facilities, the key aspects of data centre working infrastructure and their management and the facilities relationship to the delivery business strategy.

Certification
▶ CNet Training Certificate
▶ Use of the official Data Centre Fundamentals Digital Badge

Data Centre Fundamentals

Program Overview
De-mystify the complex world of data centres.

Gain a structured overview of the data centre environments, the role of a data centre and key operational aspects.

Data centres play such significant roles in our business and personal lives, yet not many people really know what they are. Often referred to as "the cloud" where our data is stored and processed, they are much more than this; they power the internet giving us the ability to pay bills online, access our emails, obtain money from ATM machines, watch movies, communicate around the world and to carry on what is now considered a normal, fiercely technological lifestyle.

This program has been designed to help de-mystify the complex world of data centres. It provides an overview of what data centres are, what they do and why we need them. Key aspects relating to basic design and design philosophies are also examined and the essential considerations of data centre management such as operational processes, energy management and facility management are explored along with their relationships to overall business strategy. The data centre sector as a whole is also explained including the value of the sector today, the significant growth it has experienced and how this will continue in the future.

This program is available either as a 1 day instructor-led remote attendance program or as a fully video narrated 8 hour distance learning program. For the distance learning program study can be undertaken at your convenience over a period of time. Once booked, an online link with a password is sent to you which unlocks the relevant material for you to start your study.

Data Centre Fundamentals Topics:

What is a Data Centre?
▶ Define a data centre
▶ Identify the main data centre types
▶ Identify the business service options
▶ Emerging delivery and future demands

The Role and Objectives of a Data Centre
▶ Driving factors for a data centre
▶ Data centre standards
▶ Data centre availability models and considerations
▶ Location and building considerations

Design Overview
▶ Criticality and availability considerations
▶ The four key constraints (4C's) - Power Cooling, IT Infrastructure and Space

Managing a Data Centre
▶ Regulations, best practices and operational processes
▶ Move, adds and change processes
▶ Efficient energy management
▶ Decommissioning processes
▶ IT & physical security

The Data Centre Industry and Market
▶ The size of the market
▶ Market drivers and trends
▶ Powering the internet