

Data Centre – Foundation

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