

CDCE (Certified Data Centre Expert)

Module 1

- Data Centre Life Cycle

- Data centre lifecycle stages and phases
- Exercise: Stage/Phase/Milestone/Document mapping

Module 2

- Design Preparation

- Creation of a SON – Statement Of Need
- Technology review
- Conceptual sizing
- How to calculate for computer room space
- How to calculate facility space
- How to calculate incoming power
- Exercise: Conceptual sizing building and power

- Analysing capacity of existing facility
- Analysing investment options
- Site selection
- Permits and approvals
- Exercise: Site selection

- Conceptual design
- Budget and project timeline
- Business case preparation
- Project delivery structure
- Project management options
- Project manager and team

Module 3

- Design Planning

- OSRA – Operational Systems Requirement Analysis
- TFRA – Technical Facilities Requirement Analysis
- Operations and maintenance review
- RFP – Request For Proposal process
- Vendor selection

Module 4

- Design Development

- Project planning
- Design development
- PDR – Preliminary Design Review
- Equipment selection
- FDR/V – Final Design Review/Validation
- Exercise: Full design validation of power, cooling, floor plans, fire suppression
- Design freeze and LLTI

- Creation of construction documents
- BOM/BOQ – Bill Of Material/Bill Of Quantity
- Exercise: Equipment selection

Module 5

- Acquire

- Requirements of purchase orders
- Shipping terms
- FWT/FAT – Factory Witness Test/Factory Acceptance Test
- Sequencing
- Incoming goods inspection and handling
- Asset management

Module 6

- Construct

- Temporary essential services
- Erection of the building
- Permanent essential services
- Building inspection
- Snag list
- COF – Certificate Of Fitness

Module 7

- Fit-Out

- Fit-Out
- Builders cleaning
- As-Built Drawings

Module 8

- Test & Commissioning

- IET – Individual Equipment Test
- IPVT/IST – Integrated Performance Verification Test/Integrated Systems Test
- Common mistakes with IET/IPVT
- Deep cleaning
- Exercise: IET/IPVT scripting

Module 9

- Hand-Over

- Facility hand-over requirements and documents
- PCC – Practical Completion Certificate
- DLP – Defect Liability Period
- Defect Management
- ICT Systems Installation
- ICT Systems Testing
- Hand-Over/DLP Expiry
- FCC – Final Completion Certificate

Module 10

- Retirement

- Reasons and definitions of retirement
- Building the business case and project plan
- Sequencing
- Transfer of site
- Demolishing of site
- Legal matters
- FCC – Final Completion Certificate