

Certified Data Centre Professional (CDCP)[™]

Course Outline



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What Modules are covered?

Module 1 – Fundamentals of Availability

- 1) Introduction
- 2) Measuring Business Value
- 3) Five 9's of Availability
- 4) Limitations of 99.999%
- 5) Factors affecting Availability
- 6) A/C Power Conditions
- 7) Cooling Issues
- 8) Equipment Failures
- 9) Natural and Artificial Disasters
- 10) Human Errors
- 11) Cost of Downtime
- 12) Calculating Cost of Downtime

Module 2 – Examining Fire protection methods in the Data Center

- 1) Introduction
- 2) National Fire Protection Association
- 3) Prevention
- 4) System Objectives of Data Center Fire Protection System
- 5) Fire Triangle
- 6) Classes of Fire
- 7) Stages of Combustion
- 8) Fire Detection Devices
- 9) Smoke Detectors
- 10) ISTD
- 11) Fire Extinguishers
- 12) Methods of Fire Suppression
- 13) Water Sprinkler System
- 14) Water Mist Suppression System

Module 3 – Fundamentals of Cabling strategies for Data Centers

- 1) Introduction
- 2) Cabling
- 3) Overview of Cables
- 4) Cabling Installation
- 5) Cable Layout Architectures
- 6) Cable Management
- 7) Managing Cables
- 8) Cable Maintenance Practices

Module 4 – Fundamentals of Cooling

- 1) Introduction
- 2) Evolution
- 3) Data Center Cooling
- 4) Physics of Cooling
- 5) Heat Transfer Methods
- 6) Airflow in IT Spaces
- 7) Heat Generation
- 8) Gas Law
- 9) Evaporation
- 10) Compression
- 11) Condensation
- 12) Expansion
- 13) Evaporator

Module 5 – Fundamentals of cooling II : Humidity in the Data Center

- 1) Introduction
- 2) Cooling Related Devices
- 3) Humidity and Static Electricity
- 4) Nature of Humidity
- 5) Humidity Control in Data Center
- 6) Relative Humidity Control

- 7) Dew Point Control
- 8) Humidification System
- 9) Converted Office Space
- 10) OSP's
- 11) Short Cycling

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