

Data Center Fundamentals

Bridging the knowledge gap between your onsite IT personnel and building operations personnel is essential in data center operations. This course seeks to do just that so both parties are speaking the same language, understanding the other's work practices, and progressing toward the ultimate goal in data center operations...100% uptime. This course will orient participants to network basics, components of a data center, and structured cabling design basics. It will also dive into project management and how that is controlled by the client's standards and protocol. The instructors will utilize site specific information, hands-on component inspections and walk through to successfully convey the message of this course. Anyone who works in or near the data center environment would benefit from this course.

Duration: 8 Hour Program

Data Center Layout & Design

- Network Design
- Peer to Peer Network
- Client Server or Hierarchical Network
- Virtual or Cloud Based Network
- Components of the Data Center
- Uptime Institute: Data Center Tiers

Data Center Management

- Standard Based Approach
- Power Distribution
- Heat Dissipation
- Power Redundancy
- Circuit Redundancy
- Cable Installation

Hardware

- Twisted Pair Cabling
- Cabling Performance Categories
- Fiber Optic Cabling & Performance
- Cabling Connectors
- Splicing

Testing & Documentation

- Testing Parameters
- Maintaining Documentation
- Wiremapping
- OTDR Tracing
- Labeling and Definitions

Equipment & Rack Systems

- Selecting Server Racks & Cabinets
- Network or Server Type Racks
- Load Rating
- Lead Time for Installs
- Installation Concerns

Cable Management

- Cable Trays VS Conduit
- Partitioning
- Vertical Cable Management

Work Practices

- Client's Governing Standards
- Working with IT Personnel
- Incorporation of MOP
- Communication and Lines of Business
- Responsibilities of Parties