London TDM

Information Technology and Digital Transformation Training Courses

Course Venue: United Kingdom - London

Course Date: From 26 October 2025 To 30 October 2025

Course Place: London Paddington

Course Fees: 7,500 USD

Introduction

This 5-day professional course on "IT Infrastructure and Network Management" is designed to equip participants with in-depth knowledge and practical skills necessary for effectively managing and optimizing IT infrastructure and network operations within an organization. The course will cover fundamental concepts, advanced strategies, and best practices, ensuring participants are well-prepared to handle current and emerging IT challenges.

- Understand the components and architecture of IT infrastructure.
- Gain insights into network design, implementation, and management.
- Learn to assess and optimize infrastructure performance and reliability.
- Explore cloud technologies and virtualization in modern IT environments.
- Develop skills for troubleshooting and resolving network issues.

Course Outlines

Day 1: Introduction to IT Infrastructure

- Understanding IT Infrastructure Components
- Infrastructure Planning and Design
- Introduction to Network Architecture
- Roles and Responsibilities in IT Infrastructure Management
- Key Industry Standards and Frameworks

Day 2: Network Design and Implementation

- Network Topologies and Protocols
- Designing Scalable and Resilient Networks
- Network Hardware Components: Routers, Switches, and Firewalls
- Implementing Wireless and Mobile Networks
- Security Considerations in Network Design

Day 3: Infrastructure Performance and Optimization

- Monitoring and Measuring Network Performance
- Tools for Network Analysis and Optimization
- Capacity Planning and Management
- Optimizing IT Infrastructure for High Availability
- Load Balancing and Traffic Management Techniques

Day 4: Cloud Computing and Virtualization

- Introduction to Cloud Computing Models
- Implementing Virtualization in IT Infrastructure
- Cloud Infrastructure Management and Services
- Security and Compliance in Cloud Environments
- Migrating to Cloud: Strategies and Considerations

Day 5: Network Troubleshooting and Support

- Common Network Issues and Resolution Techniques
- Advanced Network Troubleshooting Tools
- Incident Management and Disaster Recovery Planning
- Developing and Implementing Support Mechanisms
- Building and Sustaining a Network Management Team