

## System and Server Support

*Birmingham (UK)*

*2 - 13 June 2025*

UK Traininig

# PARTNER



# System and Server Support

Code: IT28 From: 2 - 13 June 2025 City: Birmingham (UK) Fees: 8500 Pound

## Introduction

In today's digital landscape, the backbone of any organization's IT infrastructure lies in its systems and servers. These critical components not only support day-to-day operations but also ensure the security, reliability, and efficiency of an organization's digital ecosystem. To navigate the complexities of system and server support effectively, professionals require a deep understanding of advanced concepts, modern technologies, and best practices.

## Objectives

- Gain a comprehensive understanding of modern system architecture, including virtualization, cloud computing, and containerization.
- Develop proficiency in configuring, managing, and troubleshooting various operating systems, such as Linux and Windows Server.
- Explore advanced networking concepts, including TCP/IP protocols, routing, and network security, to optimize system performance and reliability.
- Master the deployment and maintenance of server infrastructure, including web servers, database servers, and application servers.
- Acquire hands-on experience with automation tools, scripting languages, and DevOps practices to streamline system administration tasks.
- Learn advanced techniques for monitoring, analyzing, and optimizing system performance to ensure scalability and resilience.
- Understand the principles of cybersecurity and implement robust security measures to protect systems and data from cyber threats.
- Develop effective strategies for disaster recovery, backup management, and business continuity planning to minimize downtime and data loss.

## Course Outlines

### Day 1

#### Fundamentals of System Architecture

- Introduction to system architecture
- Virtualization technologies
- Cloud computing models and services

### Day 2



## Operating System Fundamentals

- Overview of Linux and Windows Server operating systems
- Installation, configuration, and management of operating systems
- User and group administration

## Day 3

### Advanced Networking Concepts

- TCP/IP fundamentals
- Network protocols and services
- Network security principles and practices

## Day 4

### Server Infrastructure Management

- Deployment and configuration of web servers e.g., Apache, Nginx
- Database server administration e.g., MySQL, PostgreSQL
- Application server setup and management

## Day 5

### Automation and DevOps Practices

- Introduction to automation tools e.g., Ansible, Puppet
- Scripting languages for system administration e.g., Bash, PowerShell
- Continuous integration and continuous deployment CI/CD pipelines

## Day 6

### Performance Monitoring and Optimization

- Performance metrics and monitoring tools
- System tuning and optimization techniques
- Capacity planning and scalability considerations

## Day 7

### Cybersecurity Best Practices

- Threat landscape and common cyber threats
- Security principles for systems and servers
- Implementing security controls and measures

## Day 8

### Disaster Recovery and Business Continuity



- Planning for disaster recovery and business continuity
- Backup and restore strategies
- Testing and maintaining disaster recovery plans

## Day 9

### Practical Exercises and Case Studies

- Hands-on labs and simulations
- Real-world case studies and scenarios
- Troubleshooting exercises

## Day 10

### Final Project and Assessment

- Capstone project: Design and implement a system and server support solution
- Assessment of knowledge and skills acquired
- Course review and feedback



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