



MICROSOFT TRAINING

Systems Engineering Course

Become a Microsoft Systems Engineer. Administer Windows Server, Active Directory, and PowerShell to manage robust enterprise IT environments.

DURATION

48 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

Embark on a transformative journey with Computer Pride's Microsoft Systems Engineering Course, an intermediate-level program designed to equip IT professionals with the essential skills to design, implement, and manage robust Microsoft-centric IT infrastructures. Over 48 intensive hours, this course delves deep into core technologies such as Windows Server administration, advanced networking services, virtualization with Hyper-V, and fundamental integration with Microsoft Azure cloud services. Participants will gain practical expertise in deploying secure, scalable, and efficient systems, ensuring high availability and optimal performance for modern enterprise environments. This comprehensive training goes beyond theoretical concepts, focusing on hands-on application of best practices in system deployment, maintenance, and troubleshooting. You'll learn to leverage PowerShell for automation, implement robust security measures, and understand modern infrastructure management principles. By mastering these critical skills, you will be prepared to tackle complex IT challenges, streamline operations, and contribute significantly to your organization's digital transformation initiatives. This course is your gateway to becoming a highly competent and sought-after systems engineering professional in today's dynamic IT landscape.

Duration	48 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Fundamentals of Microsoft Systems & Server Administration

- Windows Server installation and initial configuration
- Active Directory Domain Services (AD DS) management
- Group Policy implementation and troubleshooting
- Disk management and storage solutions
- Server roles and features

02 Module 2: Network Infrastructure and Core Services

- DNS, DHCP, and IP address management (IPAM)
- Network Policy Server (NPS) and VPN
- Advanced network troubleshooting
- Understanding TCP/IP in server environments
- Implementing remote access services

03 Module 3: Virtualization with Hyper-V and Azure Fundamentals

- Hyper-V deployment and virtual machine management
- Virtual networking and storage for Hyper-V
- Introduction to Azure IaaS: Virtual Machines, Networking, Storage
- Connecting on-premises infrastructure to Azure
- Azure Active Directory concepts

04 Module 4: System Security, Monitoring, and Disaster Recovery

- Windows Server security best practices
- Implementing firewalls and network segmentation
- Performance monitoring and optimization tools
- Backup and recovery strategies (Windows Server Backup, Azure Backup)
- Implementing Windows Defender and advanced threat protection

05 Module 5: Automation and Scripting with PowerShell

- PowerShell fundamentals for system administration
- Automating routine tasks with PowerShell scripts
- Managing Active Directory and Hyper-V with PowerShell
- Introduction to Desired State Configuration (DSC)
- Working with PowerShell cmdlets and modules

06 Module 6: Advanced Deployment and Maintenance Strategies

- Windows Deployment Services (WDS) and imaging
- Patch management strategies and WSUS
- Troubleshooting common server issues
- High availability concepts (Failover Clustering introduction)
- Server migration strategies

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Microsoft Windows Server Administrator**
- > **Azure Cloud Infrastructure Engineer**
- > **IT Operations and Automation Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What foundational IT knowledge or experience is recommended before enrolling in the Microsoft Systems Engineering Course?

While this is an intermediate course, it is highly recommended that participants have a basic understanding of operating systems, networking fundamentals (e.g., TCP/IP, DNS concepts), and general IT support experience. Prior exposure to Windows client environments or entry-level server administration concepts will be beneficial, though not strictly mandatory as core concepts are reinforced throughout the curriculum.

Q: How will this course enhance my ability to manage and automate tasks within a Microsoft IT infrastructure?

This course heavily emphasizes practical skills in managing and automating Microsoft environments. You will gain proficiency in advanced Windows Server administration, learn to implement and manage core network services, and critically, master PowerShell scripting for automating routine tasks, managing configurations, and streamlining deployments. This comprehensive skill set will significantly boost your efficiency and consistency in daily IT operations.

Q: Does this course cover integration strategies for on-premises systems with Microsoft Azure cloud services?

Yes, the curriculum includes a dedicated module on virtualization with Hyper-V and introduces fundamental concepts of Microsoft Azure. You will learn how to deploy and manage virtual machines in Azure, understand basic Azure networking and storage, and explore strategies for connecting and extending your on-premises infrastructure into the Azure cloud. This prepares you for implementing and managing modern hybrid cloud environments.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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