EdiTC EDUCATION & INFORMATION TECHNOLOGY CENTRE

Making Training an enjoyable experience

Windows Server Administration (Course code WS-011)

This course examines the services and features of Microsoft Windows Server versions from 2012 to 2022, including lessons and lab exercises about key attributes you might need on the job. It's a comprehensive guide to key areas of administrating contemporary Windows Server editions, and it's designed for IT professionals seeking one course in which they can learn all Windows Server knowledge and skills with respect to configuring, using, and maintaining it. The course begins with an overview of administration techniques and continues with topics about identity services, networking, virtualization, high availability, and disaster recovery. This is a comprehensive course that has extensive content and labs, and you'll find it helpful for exam preparation and as a guide for administering a Windows Server environment.

CODE: ED24B11

DURATION: 35 hours

START DATE: 10/10/2024

AUDIENCE PROFILE:

This course is intended for IT professionals who have some experience working with Windows Server and are wanting a five-day course that covers the administration of core components and technologies in Windows Server 2022. This course also helps server administrators from previous Windows Server versions to update their knowledge and skills related to Windows Server 2022.

PREREQUISITES FOR PARTICIPATION:

- Experience with PowerShell and the Exchange PowerShell module.
- Significant experience deploying, managing, and troubleshooting Exchange environments.

TRAINING LANGUAGE:

Greek or English

TRAINING MATERIALS:

Step by Step training materials in the English Language and Online Labs with 180 days access

METHODOLOGY:

Lecture, discussion, demonstration and labs.

COURSE OBJECTIVES:

Upon completion of this course the participants will :

- Administer Windows Server 2022 and earlier versions.
- Administer and configure networking services in Windows Server 2022.
- Administer and configure virtualization services in Windows Server 2022.
- Administer and configure security services in Windows Server 2022.
- Administer and configure high availability and disaster recovery services in Windows Server 2022.

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VENUE:

Webinar
or
EDITC & MMC Conference Center,
Imvrou 16, 1055 Nicosia

DATES & TIMES:

Thursday, 10th of October 2024, 08:15 - 16:00
Friday, 11th of October 2024, 08:15 - 16:00
Saturday, 12th of October 2024, 08:15 - 16:00
Thursday, 17th of October 2024, 08:15 - 16:00
Friday, 18th of October 2024, 08:15 - 16:00

PARICIPATION COST:

The cost incudes the course notes, labs with 180 day access and certificate.
In the event of classroom led training, coffee, snacks and light lunch are offered complimentary.

Participation Cost

- Total Cost: €1100
- HRDA Subsidy: €700
- Net Cost: €400

For Unemployed

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COURSE TOPICS

Module 1: Windows Server Administration

This module covers administration tools for Windows Server and it also introduces versions of Windows Server 2022.

Lessons

- Overview of Windows Server administration principles and tools
- Introducing Windows Server 2022
- Overview of Windows Server Core

After completing this module, students will be able to:

- Describe and use administration tools in Windows Server
- Describe Windows Server 2022 and its key features
- Implement and use Server Core

Module 2: Identity Services in Windows Server

This module covers important identity roles in Windows Server. In the first place, it discusses Active Directory Domain Services, Certificate services, and cloud-based identity service Azure AD.

Lessons

- Overview of AD DS
- Deploying Windows Server domain controllers
- Overview of Azure AD
- Implementing Group Policy
- Overview of AD CS

After completing this module, students will be able to:

- Describe AD DS and explain how it works
- Deploy Windows Server domain controllers
- Describe Azure AD
- Use Group Policy to manage Windows Server based environment
- Describe and use AD CS

Module 3: Network Infrastructure Services in Windows Server

This module covers core networking services in Windows Server – DHCP, DNS and IPAM.

- Lessons
- Deploying and managing DHCP
- Deploying and managing DNS services
- Deploying and managing IPAM

After completing this module, students will be able to:

- Describe, configure, and use DHCP service in Windows Server
- Describe, configure and use DNS
- Describe, configure and use IPAM to manage networking services

Module 4: File servers and storage management in Windows Server

This module covers services that deal with file systems, volumes, and storage. Students will also learn about data deduplication, sharing, iSCSI, and DFS services.

Lessons

- Volumes and file systems in Windows Server
- Implementing sharing in Windows Server
- Implementing Storage Spaces in Windows Server
- Implementing Data Deduplication
- Implementing iSCSI
- Deploying DFS

After completing this module, students will be able to:

- Describe volumes and file systems in Windows Server

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- Implement sharing in Windows Server
- Describe and implement Storage Spaces
- Describe and configure Data Deduplication service
- Describe iSCSI
- Deploy DFS

Module 5: Hyper-V virtualization and containers in Windows Server

In this module, students learn about virtualization services in Windows Server. The module covers Hyper-V, options to secure virtualization environment, containers and Kubernetes.

Lessons

- Hyper-V in Windows Server
- Configuring VMs
- Securing virtualization in Windows Server
- Containers in Windows Server
- Overview of Kubernetes

After completing this module, students will be able to:

- Describe and use Hyper-V platform in Windows Server
- Configure VMs on Hyper-V platform
- Secure virtualization environment in Windows Server
- Describe Containers
- Describe Kubernetes

Module 6: High availability in Windows Server

This module covers high availability in Windows Server. It is primarily focused on Failover Clustering feature.

Lessons

- Planning for failover clustering implementation
- Creating and configuring failover clusters
- Overview of stretch clusters
- High availability and disaster recovery solutions with Hyper-V VMs

After completing this module, students will be able to:

- Plan failover clustering implementation
- Create failover clusters
- Describe stretched clusters
- Apply failover clustering to achieve high availability with Hyper-V platform

Module 7: Disaster recovery in Windows Server

This module covers technologies to implement disaster recovery in Windows Server environment.

Lessons

- Hyper-V Replica
- Backup and restore infrastructure in Windows Server

After completing this module, students will be able to:

- Describe and implement Hyper-V Replica
- Implement backup and restore with Windows Server backup

Module 8: Windows Server security

- In this module, students learn about security technologies that address various critical components in Windows Server environment.

Lessons

- Credentials and privileged access protection in Windows Server
- Hardening Windows Server
- JEA in Windows Server
- Securing and analyzing SMB traffic

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- Windows Server update management

After completing this module, students will be able to:

- Describe credentials and privileged access protection
- Describe and perform hardening Windows Server
- Describe and implement JEA in Windows Server
- Describe who to secure and analyze SMB traffic
- Describe and implement Windows Server update management

Module 9: RDS in Windows Server

This module covers Remote Desktop services in Windows Server. It also deals with VDI implementations.

Lessons

- Overivew of RDS
- Configuring a session-based desktop deployment
- Overview of personal and pooled virtual desktops

After completing this module, students will be able to:

- Describe and configure RDS
- Configure a session-based desktop deployment
- Implement personal and pooled virtual desktops

Module 10: Remote access and web services in Windows Server

In this module, students learn about remote access technologies for Windows Server, as well as about IIS deployment and usage.

Lessons

- Overview of RAS in Windows Server
- Implementing VPNs
- Implementing NPS
- Implementing Always On VPN
- Implementing Web Server in Windows Server

After completing this module, students will be able to:

- Describe and implement RAS in Windows Server
- Describe and implement VPNs
- Describe and implement NPS
- Describe and implement Always On VPN
- Describe and implement Web Server role in Windows Server

Module 11: Server and performance monitoring in Windows Server

This module covers monitoring tools and technologies available in Windows Server.

Lessons

- Overview of Windows Server monitoring tools
- Using Performance Monitor
- Monitoring event logs for troubleshooting

After completing this module, students will be able to:

- Describe and use performance monitoring tools
- Describe and use server monitoring tools
- Use event logs for troubleshooting

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Module 12: Upgrade and migration in Windows Server

This module covers available tools in Windows Server for server upgrade and migration. It also covers AD DS migration and upgrade process.

Lessons

- AD DS Migration
- Storage Migration Service
- Windows Server migration tools

After completing this module, students will be able to:

- Describe and perform AD DS migration and upgrade
- Describe and perform storage migration
- Describe and use Windows Server migration tools.