55341: Installation, Storage, and Compute with Windows Server

Category: Infrastructure & IT Operations | **Vendor:** Microsoft

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This five-day course is designed primarily for IT professionals who have some experience with Windows Server. It is designed for professionals who will be responsible for managing storage and compute by using Windows Server, and who need to understand the scenarios, requirements, and storage and compute options that are available and applicable to Windows Server. Although this course and the associated labs are written for Windows Server 2022, the skills taught will also be backwards compatible for Server 2016 and Server 2019. The course and labs also focus on how to administer Windows Server using not only the traditional tools such as PowerShell and Server manager, but also Windows Admin Center.

About This Course

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Although this course and the associated labs are written for Windows Server 2022, the skills taught will also be backwards compatible for Server 2016 and Server 2019.

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Who Should Attend

This course is intended for IT professionals who have some experience working with Windows Server, and who are looking for a single five-day course that covers storage and compute technologies in Windows Server. This course will help them update their knowledge and skills related to storage and compute for Windows Server.

Prerequisites & Entry Requirements

General Prerequisites:

- A basic understanding of networking fundamentals.
- An awareness and understanding of security best practices.
- An understanding of basic Active Directory concepts.
- Basic knowledge of server hardware.
- Experience supporting and configuring Windows client operating systems such as Windows 10 or Windows 11.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Prepare and install Windows Server and plan a server upgrade and migration strategy. Describe the various storage options, including partition table formats, basic and dynamic disks, file systems, virtual hard disks, and drive hardware, and explain how to manage disks and volumes. Describe enterprise storage solutions, and select the appropriate solution for a given situation. Implement and manage Storage Spaces and Data Deduplication. Install and configure Microsoft Hyper-V, and configure virtual machines. Deploy, configure, and manage Windows and Hyper-V containers. Describe the high availability and disaster recovery technologies in Windows Server. Plan, create, and manage a failover cluster. Implement failover clustering for Hyper-V virtual machines. Configure a Network Load Balancing (NLB) cluster, and plan for an NLB implementation. Create and manage deployment images. Manage, monitor, and maintain virtual machine installations.

Detailed Course Outline

1 - Installing, upgrading, and migrating servers and workloads

- **Introducing Windows Server**
- **Preparing and installing Server Core**
- **Preparing for upgrades and migrations**
- **Migrating server roles and workloads**
- **Windows Server activation models**

2 - Configuring local storage

- **Managing disks in Windows Server**
- **Managing volumes in Windows Server**

3 - Implementing enterprise storage solutions

- **Overview of DAS, NAS, and SANs**
- **Comparing Fibre Channel, iSCSI, and Fibre Channel over Ethernet**
- **Understanding iSNS, DCB, and MPIO**
- **Configuring sharing in Windows Server**

4 - Implementing Storage Spaces and Data Deduplication

- **Implementing Storage Spaces**
- **Managing Storage Spaces**
- **Implementing Data Deduplication**

5 - Installing and configuring Hyper-V and virtual machines

- **Overview of Hyper-V**
- **Installing Hyper-V**
- **Configuring storage on Hyper-V host servers**
- **Configuring networking on Hyper-V host servers**
- **Configuring Hyper-V virtual machines**
- **Managing virtual machines**

6 - Deploying and managing containers

- **Overview of containers in Windows Server**
- **Deploying Windows Server and Hyper-V containers**
- **Installing, configuring, and managing containers by using Docker**

7 - High availability and disaster recovery

- **Defining levels of availability**
- **Planning high availability and disaster recovery solutions with Hyper-V virtual machines**
- **Backing up and restoring by using Windows Server Backup**
- **High availability with failover clustering in Windows Server**

8 - Implementing failover clustering

- **Planning a failover cluster**
- **Creating and configuring a new failover cluster**
- **Maintaining a failover cluster**
- **Troubleshooting a failover cluster**
- **Implementing site high availability with stretch clustering**

9 - Implementing failover clustering with Windows Server Hyper-V

- **Overview of the integration of Hyper-V with failover clustering**
- **Implementing Hyper-V VMs on failover clusters**
- **Key features for VMs in a clustered environment**

10 - Implementing Network Load Balancing

- **Overview of NLB**
- **Configuring an NLB cluster**
- **Planning an NLB implementation**

11 - Creating and managing deployment images

- **Introduction to deployment images**
- **Creating and managing deployment images by using MDT**
- **Virtual machine environments for different workloads**

12 - Managing, monitoring, and maintaining virtual machine installations

- **WSUS overview and deployment options**
- **Update management process with WSUS**
- **Overview of Windows PowerShell DSC**
- **Overview of Windows Server monitoring tools**
- **Using Performance Monitor**
- **Monitoring event logs**

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Upcoming Schedule

Available training dates for 55341: Installation, Storage, and Compute with Windows Server:

Start Date	End Date	Location	Delivery	Price
14 Dec 2026	18 Dec 2026	Online	Virtual	€2,995.00

Additional Course Details

Nexus Humans 55341 Installation, Storage, and Compute with Windows Server training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the 55341 Installation, Storage, and Compute with Windows Server course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for 55341: Installation, Storage, and Compute with Windows Server?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day 55341: Installation, Storage, and Compute with Windows Server course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the 55341: Installation, Storage, and Compute with Windows Server training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for 55341: Installation, Storage, and Compute with Windows Server?

Yes, we provide corporate training, dedicated training, and closed classes for 55341: Installation, Storage, and Compute with Windows Server. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for 55341: Installation, Storage, and Compute with Windows Server?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your 55341: Installation, Storage, and Compute with Windows Server training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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