Windows Server 2025 Course

Day 1 – Core Platform and Security

Module 1 – Desktop Experience and Upgrade

- **Session Overview**
    - In-place upgrade from Windows Server 2012 R2
    - Desktop shell and Task Manager improvements
    - DTrace overview and usage
    - File compression and pinned apps
    - Windows Terminal enhancements
    - Package management with WinGet
    - Using Feedback Hub and PowerToys
- **Hands-On Activities**
    - Customizing Windows Terminal on Windows Server 2025
    - Exploring DTrace for troubleshooting
    - Installing PowerToys using WinGet

Module 2 – Enhanced Security Features

- **Session Overview**
    - Hotpatch (non-reboot updates)
    - Credential Guard
    - Active Directory Domain Services improvements
    - Delegated Managed Service Account (dMSA)
    - Windows Local Administrator Password Solution (LAPS)
    - OpenSSH server configuration
    - Security baselines and virtualization-based enclaves
- **Hands-On Activities**
    - Creating a dMSA
    - Installing and configuring LAPS
    - Setting up OpenSSH
    - Implementing a security baseline

Module 3 – Hyper-V, AI, and Performance

- **Session Overview**
    - Accelerated networking
    - Dynamic processor compatibility
    - Hyper-V Manager updates
    - Hypervisor-enforced paging translation

- o GPU partitioning for AI workloads
- o Network ATC and scalability
- o Workgroup clusters

Day 2 – Storage, Hybrid, and Advanced Features

Module 4 – Storage Enhancements

- **Session Overview**
  - o Block cloning support
  - o Dev Drive setup and management
  - o NVMe performance optimization
  - o Storage Replica compression and enhanced logs
  - o ReFS native deduplication and compression
  - o Thin provisioned volumes
- **Hands-On Activities**
  - o Configuring a Dev Drive

Module 5 – Azure Arc and Hybrid Integration

- **Session Overview**
  - o Simplified Azure Arc setup
  - o Pay-as-you-go licensing for hybrid environments
  - o Windows Server management via Azure Arc

Module 6 – Software-Defined Networking (SDN)

- **Session Overview**
  - o Network Controller
  - o Tag-based segmentation
  - o Default network policies
  - o SDN Multisite management
  - o Enhanced Layer 3 gateway performance

Module 7 – Other Features

- **Session Overview**
  - o Windows Containers portability
  - o Joining and leveraging the Windows Server Insider Program