

### NWA089: Windows Server 2019 Administration

#### หลักการและเหตุผล:

This course provides the knowledge necessary to install and configure a core Windows Server 2019 infrastructure in an existing enterprise environment. This course covers the core skills required by anyone working with Windows Server 2019 Servers.

#### วัตถุประสงค์:

- Describe the Windows Server 2019 environment including the roles, features, and the tools used to perform effective server management
- Prepare and install Windows Server with GUI, Server Core
- Use Server Manager and Windows PowerShell for manage Window Server
- Manage Role and Feature on Windows Server
- Configure Network Environment and IP Troubleshooting
- Configure Windows Firewall and NIC Teaming
- Implement Active Directory Domain Services
- Manage Windows User, Computer and Group
- Describe various storage option, including partition table formats, basic and dynamic disks, file systems, and explain how to manage disks and volumes.
- Describe enterprise storage solutions and select the appropriate solution for a given situation.
- Implement Storage Space and Data deduplication
- Configure secure and efficient access to file services
- Audit file server
- Manage file resources by using File Server Resource Manager.
- Install and configure Hyper-V Services
- Plan, create, and manager Windows Server 2019 backup and restore.
- Using Tools for Monitor Windows Server.

#### หลักสูตรนี้เหมาะสำหรับ:

The primary candidate is a Windows Server administrator who operates Windows Servers on a daily basis and who requires the skills for configuring, managing, and maintaining servers installed with Windows Server 2019 edition. Candidates are typically responsible for day-to-day management of the server operating system and various server roles

#### ความรู้พื้นฐาน:

- Basic experience operating Windows Servers in the area of account management, server maintenance, server monitoring, or server security.
- Basic knowledge of TCP/IP.

#### เนื้อหาหลักสูตร:

### Module1: Installing and Configuring Windows Server 2019

- Introducing Windows Server 2019
- Windows Server 2019 Edition and New Feature
- Processor Capabilities for Windows Server 2019
- Preparing and Installing Windows Server 2019
- Preparing and Installing Server Core
- Performing Post-Installation Tasks

### Module 2: Managing Windows Server 2019 with Server Manager and PowerShell

- Windows Server 2019 Server Roles
- Windows Server 2019 Server Features
- Add/Remove Server Role and Features
- Add/Remove Server Role and Features on Server Core
- Adding Servers and Create Server Group
- Using Windows PowerShell
- Using Windows PowerShell ISE
- Remote Management Windows Server 2019
  - With Server Manager
  - With Windows PowerShell
  - With Windows Admin Center

### Module 3: Administering Network Service

- About IP, Subnet Mask and Gateway
- IPv4 and IPv6
- Using IP Troubleshooting Tools
- Using Windows PowerShell for IP Troubleshooting
- Using Network Monitor for capture network traffic
- Configuring Windows Firewall
- Configuring NIC Teaming

### Module 4: Implementing Active Directory Domain Services

- Overview of Active Directory
- Component of Active Directory
- Installing a Domain Controller
- Managing User Account
- Managing Organizational Unit (OU)
- Active Directory Policy concept
- Using Group Policy and apply to member of domain
- Managing Group

### Module 5: Configuring Storage

- Disk Types and Performance
- Overview of DAS, NAS and SANs
- Managing Disks and Volumes
- About Format of File System and Allocation Unit Size
- Extend Volume/ Shrink Volume
- Using Mount Points and Links
- Configuring Basic Disk and Dynamic Disk (Raid)
- Implementing Storage Spaces
- Implementing Data Deduplication

### Module 6: Implementing File Services

- Overview of Manage Access
- ReFS/NTFS File and Folder Permission
- Inheritance Permission / Special Permission
- About Creator Owner
- Auditing File Server and Effective Access
- Managing Shared Folder
- Using AccessBased Enumeration
- Using Share Permission and guideline for sharing with security control

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- Configuring File Server Resource Manager
  - Using Quota Management
  - Using File Screening
  - Using Classification Management
- Building File Server Report

### Module 7: Implementing Server Virtualization with Hyper-V

- Overview of Virtualization Technologies
- 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

### Module 8: Implementing Disaster Recovery

- Overview of Disaster Recovery
- Planning Backup Strategy
- Performing Backup/Restore by Windows Server Backup
- Using wbadmin (Command line Backup)
- Shadow Copy Concept
- Using Shadows copy for backup and restore

### Module9: Monitoring Windows Server 2019

- Overview of Windows Server 2019 Monitoring Tools
- Monitoring by the Using Performance Tools
  - Using Task Manager
  - Using Resource Monitor
  - Using Performance Monitor and Data Collector Set
- Maintain Reliability by the Using Diagnostic Tools
  - Using Windows Memory Diagnostics
  - Using Reliability Monitor
  - Using Event Viewer

#### วิทยากร:



#### อาจารย์สรัดน์ เกษมบุญศิริ

- วิทยากรรับเชิญประจำสถาบันพัฒนาบุคลากรแห่งอนาคต
- Managing Director (Born2Learn Co., Ltd)
- Microsoft Certified Trainer (MCT)
- Microsoft Certified System Engineer (MCSE)
- Microsoft Certified Solution Associate -Database
- Microsoft Certified Professional (MCP)
- Certified ITIL Foundation v.3
- Certified CompTIA Security +
- Cisco Certified Network Associate (CCNA)
- Certified AOTS of Japan Members

จำนวนชั่วโมงในการฝึกอบรม: 5 วัน (30 ชั่วโมง)

กำหนดการอบรม: ตามตารางปฏิทินอบรมประจำปี <https://www.career4future.com/trainingprogram>

ช่วงเวลาฝึกอบรม: 9.00 - 16.00 น.

ค่าลงทะเบียนอบรม: ท่านละ 13,500 บาท (ราคารวมภาษีมูลค่าเพิ่มแล้ว)

\*\* สถาบันฯ เป็นหน่วยงานราชการ จึงไม่อยู่ในเกณฑ์ที่ต้องถูกหักภาษี ณ ที่จ่าย

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### สถานที่ฝึกอบรม:

สถาบันพัฒนาบุคลากรแห่งอนาคต  
เลขที่ 73/1 อาคารสำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ (สวทช.) ชั้น 6  
ถนนพระรามที่ 6 แขวงทุ่งพญาไท เขตราชเทวี กรุงเทพฯ 10400

### วิธีการสำรองที่นั่ง:

ติดต่อสำรองที่นั่งล่วงหน้า ในวัน-เวลาราชการ  
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โทรสาร: 0 2644 8110  
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