Training: Microsoft
AZ-040T00: Automate Administration with PowerShell

Microsoft Partner

TRAINING GOALS:

This course provides students with the fundamental knowledge and skills to use PowerShell for administering and automating administration of Windows servers. Students learn how to identify and build commands to perform specific tasks, build scripts to accomplish advanced tasks such as automating repetitive tasks and generating reports.

Audience Profile:
This course is intended for IT Professionals who are already experienced in general Windows Server, Windows client, Azure, and Microsoft 365 administration, and who want to learn more about using Windows PowerShell for administration.

CONSPECT:

- Get started with Windows PowerShell
  - Module 1: Review Windows PowerShell
  - Module 2: Understand the command syntax in Windows PowerShell
  - Module 3: Find commands and help in Windows PowerShell
- Maintain system administration tasks in Windows PowerShell
  - Module 1: Manage Windows PowerShell drives and Active Directory Service
  - Module 2: Manage computer configuration with PowerShell
  - Module 3: Manage Windows Server roles with PowerShell
  - Module 4: Manage Windows Server network configuration with PowerShell
- Work with the Windows PowerShell pipeline
  - Module 1: Understand the Windows PowerShell pipeline
  - Module 2: Select, sort, and measure objects
  - Module 3: Filter objects out of the pipeline
  - Module 4: Enumerate objects in the pipeline
  - Module 5: Send and pass pipeline objects as output
  - Module 6: Use PSProviders and PSDrives to work with data

Compendium Centrum Edukacyjne Spółka z o.o.
ul. Tatarska 5, 30-103 Kraków, tel.: (12) 298 47 77
ul. Postępu 18B, 02-676 Warszawa, tel.: (22) 417 41 70
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- Work with PowerShell providers and PowerShell drives in Windows PowerShell
  - Module 1: Manage Windows PowerShell providers and drives
  - Module 2: Manage items by using Windows PowerShell
- Query management information by using Common Information Model and Windows Management Instrumentation
  - Module 1: Query management information by using WMI and CIM
  - Module 2: Query and change CIM settings
  - Module 3: Manage WMI and CIM sessions
- Use variables, arrays, and hash tables in Windows PowerShell scripts
  - Module 1: Use variables in Windows PowerShell scripts
  - Module 2: Use arrays and hash tables in Windows PowerShell scripts
- Create and modify scripts by using Windows PowerShell
  - Module 1: Create basic scripts in Windows PowerShell
  - Module 2: Add logic to Windows PowerShell scripts
  - Module 3: Use loops in Windows PowerShell scripts
  - Module 4: Manage script errors in Windows PowerShell
  - Module 5: Create functions and script modules in Windows PowerShell
  - Module 6: Manage script signing and execution policy in Windows PowerShell
- Administer remote computers by using Windows PowerShell
  - Module 1: Use basic Windows PowerShell remoting
  - Module 2: Use advanced Windows PowerShell remoting techniques
  - Module 3: Manage PSSession connections
- Manage cloud resources by using Windows PowerShell
  - Module 1: Manage Azure resources with PowerShell
  - Module 2: Manage Microsoft Entra ID with PowerShell
  - Module 3: Manage Exchange Online with Exchange Online PowerShell V3 module
- Manage Microsoft 365 services by using Windows PowerShell
  - Module 1: Manage Microsoft 365 user and group objects with PowerShell
  - Module 2: Manage SharePoint Online with PowerShell
  - Module 3: Manage Microsoft Teams with PowerShell
  - Module 4: Manage Security and Compliance features with PowerShell
- Create and manage background jobs and scheduled jobs in Windows PowerShell
  - Module 1: Create and manage background jobs in Windows PowerShell
  - Module 2: Create and manage scheduled jobs in Windows PowerShell

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REQUIREMENTS:

No prerequisites specified at the course level. Learning paths suggest: Windows Server administration, Windows Client administration, basic security best practices, Windows networking technologies.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Microsoft (course completion). This course is not directly mapped to a Microsoft certification exam.

TRAINER:

Microsoft Certified Trainer (MCT)

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