

Microsoft Official Course



10962B

Advanced Automated Administration
with Windows PowerShell®

Welcome

Thank you for joining us today.

We've worked together with the Microsoft Partner Network and Microsoft IT Academies to bring you a world-class learning experience, including:

Microsoft Certified Trainers + Instructors. Your instructor is a premier technical and instructional expert who meets ongoing certification requirements.

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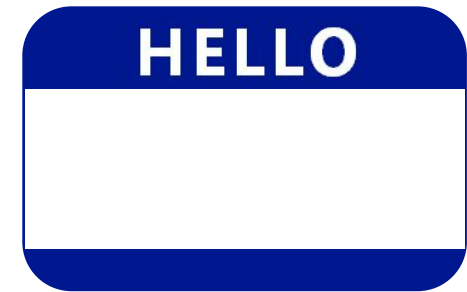
We wish you a great learning experience and ongoing career success!



Hello! Instructor Introduction

Let's get acquainted:

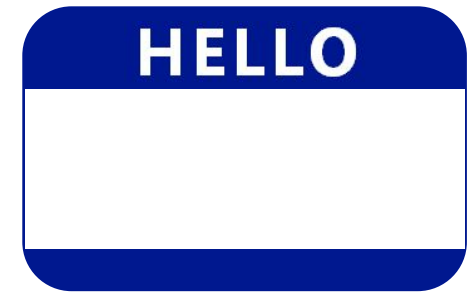
- **Instructor:** <Name>
- <Title or other credentials, e.g. Microsoft Certified Trainer>
- <Affiliation/Company>
- <A few words about my technical and professional experience>



Hello! Student Introductions

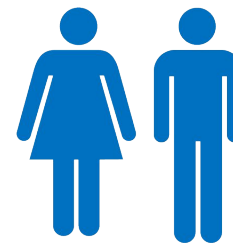
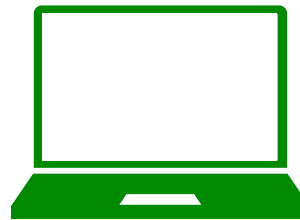
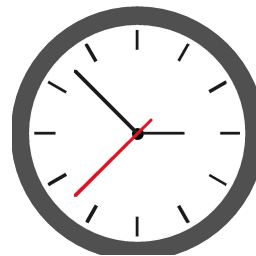
Let's get acquainted:

- Your name
- Company affiliation
- Title/function
- Job responsibility
- Product experience
- Your expectation for the course



Facilities

- Class hours
- Building hours
- Parking
- Restrooms
- Meals
- Phones
- Messages
- Smoking
- Internet access
- Recycling
- Emergency procedures



About This Course: Audience

Candidates who attend this course are typically:

- IT Professionals already experienced in general Windows Server and Windows Client administration or experienced in administering and supporting Application servers and services including applications such as Exchange, SharePoint, and SQL
- System, Infrastructure and Application Administrators working in a Windows or Windows hybrid environment will all find this course relevant to their day to day jobs and future career and skills development
- Anyone interested in building upon existing Windows PowerShell knowledge and skills to learn how to build their own tools for broader general use in their organization, using any Microsoft or independent software vendor (ISV) product that supports Windows PowerShell manageability

About This Course: Prerequisites

Before attending this course, students must have:

- Knowledge and experience working with Windows PowerShell or knowledge equivalent to the content covered in course 10961B: Automating Administration with Windows PowerShell
- Experienced in general Windows Server and Windows Client administration or already experience in administering and supporting Application servers and services including applications like Exchange, SharePoint, and SQL

About This Course: Objectives

After completing this course, students will be able to:

- Create advanced functions
- Use cmdlets and the Microsoft .NET Framework in Windows PowerShell
- Write controller scripts
- Handle script errors
- Use XML data files
- Manage server configurations by using desired state configuration
- Analyze and debug scripts
- Understand Windows PowerShell workflows

Your Printed Course Materials (*OPTIONAL*)

Microsoft Official Course handbook

- Organized by modules
- Includes Labs + Lab Answer Keys
- Module Reviews + Takeaways make great on-the-job reference

Digital companion content

- Supplemental content + helpful links
- Download at:
<http://www.microsoft.com/learning/companionmoc>



Your Digital Course Materials (*OPTIONAL*)

Microsoft Official Course handbook (digital)

- Access online using the Arvato Skillpipe reader at <http://skillpipe.courseware-marketplace.com/reader>
- Register/log in and redeem your digital courseware
- Easily add notes, add comments, and highlight content
- Organized by module
- Includes Labs + Lab Answer Keys
- Module Reviews + Takeaways make great on-the-job reference



Digital companion content

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Course Outline

Module 1: Creating Advanced Functions

Module 2: Using Cmdlets and Microsoft .NET Framework in Windows PowerShell

Module 3: Writing Controller Scripts

Module 4: Handling Script Errors

Module 5: Using XML Data Files

Module 6: Managing Server Configurations by Using Desired State Configuration

Module 7: Analyzing and Debugging Scripts

Module 8: Understanding Windows PowerShell Workflow

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(MCSE)

Microsoft Certified
Solutions Associate
(MCSA)



Preparing for the Labs

- Your lab activities will be centered around a fictitious company that we'll call Adatum
- By working through the labs, you will learn how to write tools that perform production automation tasks

Virtual Machine	Role
10962B-LON-DC1	A Windows Server 2012 R2 Domain controller (server core) for Adatum.com
10962B-LON-SVR1	Server Core installation of Server 2012 R2 and a member of the Adatum.com domain
10962B-LON-CL1	Windows 8.1 and a member of the Adatum.com domain

Demonstration: Using Microsoft Labs Online (*OPTIONAL*)

In this demonstration, you will learn how to:

- Access the MLO lab environment
- Carefully read the online Lab Notes because some procedures related to on-premises lab versus online labs may be different and have slightly different steps. Any differences will be called out in the Lab Notes.
- Switch between VMs

Demonstration: Using Hyper-V Manager (*OPTIONAL*)

In this demonstration, you will learn how to:

- Open Hyper-V Manager
- Navigate the various sections/panes within Hyper-V Manager:
 - VMs, snapshots, and actions (server-specific and VM-specific)
- Identify the VMs used in the labs for this course
- Take a snapshot and apply a snapshot
- Connect to a VM
- Start and sign in to a VM
- Switch between full screen and window modes
- Revert to the previous snapshot
- Shut down a VM
 - When to use shut down or turn off
- Close Hyper-V Manager

Demonstration: Navigation in Windows Server 2012 (*OPTIONAL*)

In this demonstration, you will learn how to:

- Configure Hyper-V to use Windows key combinations in the VM
- Sign in and sign out
- Access applications
- Access Control Panel
- Use shortcut keys