

MS 2433B - Microsoft Visual Basic, Scripting Edition and Microsoft Windows Script Host Essentials

Description: This three-day instructor-led course provides students with the knowledge and skills to manage Windows networks by using the Windows Script Host (WSH) and the Microsoft Visual Basic, Scripting Edition (VBScript) language. During the course, students will work on real-world scripts that they can use to manage computers running Windows Vista, Windows XP, and Windows Server 2003 operating systems. This course also provides an overview of other technologies where students can use script, such as Active Directory Service Interfaces (ADSI) and Windows Management Instrumentation (WMI).

Days: 3

Prerequisites: Before attending this course, students must have:

- Practical experience of using and administering Windows Server 2003.
- Practical experience of using and administering the Active Directory directory service.
- Practical experience of using and administering system security.
- Practical experience of using and administering services.
- Practical experience of using systems management information.
- Awareness of the potential uses of logon scripts.

Audience: This course is intended for systems administrators who use Windows-based computers and must learn how to develop administrative scripts for their enterprise networks.

Module 1: Overview of Windows Scripting Technologies

This module introduces Windows Script Host (WSH) and how to work with script files. It explains basic scripting concepts such as how WSH functions and what types of scripts can be run by using WSH.

Lessons

- Windows Scripting Technologies
- Introducing WSH
- Running Scripts
- Working with Scripts

Lab: Configuring and Using WSH

Module 2: Objects in VBScript and WSH

This module introduces object models and objects, and explains how to interact with objects in your scripts. It describes how to access objects and the functionality that they provide by using Visual Basic, Scripting Edition and Windows Script Host.

Lessons

- Object Terminology
- Creating and Manipulating Objects
- Object Models
- Common Object Models

Lab: Objects in VBScript and WSH

Module 3: Script Logic

This module describes how the Visual Basic, Scripting Edition scripting language provides an effective, efficient, and powerful framework that you can use to write administrative scripts. It explains script rules and logic, and how to use effective script layouts.

Lessons

- Fundamental VBScript Rules
- Variables, Constants, and Data Types
- Operators
- Conditions and Loops
- Procedures

- Script Layout

Lab: Script Logic

Module 4: Error Handling and Debugging

This module introduces error handling. When errors occur, it is important to know how to deal with them. The module also discusses some approaches to debugging, including the use of a debugger application.

Lessons

- Error Handling
- Debugging

Lab: Error Handling and Debugging

Module 5: ADSI

This module explains how to access the functionality of Active Directory directory service through your administrative scripts. It describes ADSI and shows how ADSI enables you to automate many administrative tasks by using scripts.

Lessons

- Overview of ADSI
- Binding with ADSI
- ADSI Objects
- Searching Active Directory
- Creating New ADSI Objects
- Managing Security, Shares, and Services by Using ADSI

Lab A: ADO Search

Module 6: Creating Logon Scripts

This module describes the processes involved in creating and managing logon scripts, so that you can successfully deploy these scripts throughout the enterprise network. The module also describes how to create and manage logon scripts.

Lessons

- Verifying the WSH Environment
- Common Logon Script Tasks
- Managing Logon Scripts
- Troubleshooting and Best Practices

Lab A: Creating Logon Scripts

Module 7: Administrative Scripts

This module describes how to use script to perform typical administrative tasks by using the various scripting models that are available through Windows Script Host and Visual Basic, Scripting Edition.

Lessons

- Administrative Scripts
- Producing Event Logs and E-Mail Messages
- Managing the Registry
- Controlling Drives, Folders, and Files
- Lab A: Administrative Scripts
- Passing Arguments to Scripts
- Writing an Event to the Application Event Log

Lab B: File and E-mail Scripts

Module 8: WMI

This module introduces the use of WMI to query, change, and monitor configuration settings on desktop and server systems, applications, networks, and other enterprise components. It describes how to write scripts that use the WMI Scripting library to work with WMI and create a wide range of systems management and monitoring scripts.

Lessons

- WMI Overview
- WMI Scripting Basics
- Common Issues in WMI Scripts
- Scripting Common Administrative Tasks by Using WMI

Lab: Writing WMI Scripts

Upcoming Classes

Jun 20, 2012 - Jun 22, 2012

Jul 09, 2012 - Jul 11, 2012

Aug 22, 2012 - Aug 24, 2012

Sep 11, 2012 - Sep 13, 2012

Oct 22, 2012 - Oct 24, 2012

Nov 14, 2012 - Nov 16, 2012

Dec 10, 2012 - Dec 12, 2012