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YOUR COURSE, YOUR WAY - MORE EFFECTIVE IT TRAINING

# **Microsoft Window's Scripting**

**Duration: 5 days** 

#### Overview:

Aspect Training's Microsoft Window's Scripting Introduction/Intermediate course provides the knowledge on on how to write system administration scripts.

This practical learning course teaches how to use scripting techniques to gain control over your Microsoft Windows, Microsoft Internet Information Services (IIS), and Microsoft Exchange Server environmentsâ€"all at your own pace.

Build practical skills on everything from writing your first script in Microsoft Visual Basic® Scripting Edition (VBScript) to working with Windows Scripting Host (WSH), Windows Management Instrumentation (WMI), and Active Directory® Services Interface (ADSI), and from creating logon scripts to automating the management of systems, user accounts, files, printers, the registry, network services, directory services, security features, group policy, and more.

### **Prerequisites:**

Previous programming experience would be useful but is not essential

### **Topics:**

# 1 - Running Your First Script

Option Explicit

On Error Resume Next

Dim

Enhancing Your Script

Docs That Make House Calls

Modifying an Existing Script

#### 2 - Adding Power to Scripts

For Each...Next

**Defining Constants** 

Constants vs. Variables

Shared Benefits of Constants and Variables

Collections

Intrinsic Constants
IfThenElseIf
IfThenElse
Select Case
4 - Passing Arguments
Command-Line Arguments
Making the Change
Running from the Command Prompt
No Arguments?
Creating a Useful Error Message
Using Multiple Arguments
Reasons for Named Arguments
Making the Change to Named Arguments
Running a Script with Named Arguments
5 - Working with Arrays
Moving Past Lame Arrays
What Does UBound Mean?
Two-Dimensional Arrays
Mechanics of Two-Dimensional Arrays
Using the ForNext Construction
Assigning Values to Each Element
6 - Strings and Arrays
Parsing Passed Text into an Array
Parsing Passed Text
Working with Dictionaries
Using the Dictionary
Compare Mode
Adding Items to the Dictionary
7 - Working with the File System

For...Next

If...Then

Do While...Loop

Do Until...Loop

3 - Adding Intelligence

File It Under Files
File Properties
File Attributes
Implementing the Attributes Property
Setting File Attributes
Writing to a Text File
Overwriting a File
Existential File Approaches
8 - Working with Folders
Creating the Basic Folder
Automatic Cleanup
Deleting a Folder
Deleting Multiple Folders
Binding to Folders
Does the Folder Exist?
Copying Folders
Moving On Up
wide and op
Noving On Op
9 - What Is WMI?
9 - What Is WMI?
9 - What Is WMI?  An Object in Any Other Namespace
9 - What Is WMI?  An Object in Any Other Namespace  More Than Just a Name
9 - What Is WMI?  An Object in Any Other Namespace  More Than Just a Name  Providers
9 - What Is WMI?  An Object in Any Other Namespace  More Than Just a Name  Providers  Adding a Touch of Class
9 - What Is WMI?  An Object in Any Other Namespace  More Than Just a Name  Providers  Adding a Touch of Class  Querying WMI
9 - What Is WMI?  An Object in Any Other Namespace  More Than Just a Name  Providers  Adding a Touch of Class  Querying WMI  10 - WMI Continued
9 - What Is WMI?  An Object in Any Other Namespace  More Than Just a Name  Providers  Adding a Touch of Class  Querying WMI  10 - WMI Continued  Alternate Ways of Configuring the WMI Moniker
9 - What Is WMI?  An Object in Any Other Namespace  More Than Just a Name  Providers  Adding a Touch of Class  Querying WMI  10 - WMI Continued  Alternate Ways of Configuring the WMI Moniker  Accepting Defaults
9 - What Is WMI?  An Object in Any Other Namespace  More Than Just a Name  Providers  Adding a Touch of Class  Querying WMI  10 - WMI Continued  Alternate Ways of Configuring the WMI Moniker  Accepting Defaults  Working with Multivalue Properties
9 - What Is WMI?  An Object in Any Other Namespace  More Than Just a Name  Providers  Adding a Touch of Class  Querying WMI  10 - WMI Continued  Alternate Ways of Configuring the WMI Moniker  Accepting Defaults  Working with Multivalue Properties  Moniker Security Settings
9 - What Is WMI?  An Object in Any Other Namespace  More Than Just a Name  Providers  Adding a Touch of Class  Querying WMI  10 - WMI Continued  Alternate Ways of Configuring the WMI Moniker  Accepting Defaults  Working with Multivalue Properties  Moniker Security Settings  WbemPrivilege Has Its Privileges

Specifying Specifics

Creating File System Object

Smooth Operator
Where Is the Where Clause?
12 - Introduction to Active Directory Service Interfaces
Working with ADSI
ADSI Providers
LDAP Names
IADsContainer
Binding
Creating Users
13 - Reading and Writing for ADSI
Working with Users
General User Information
Creating the Second Page
Staying Put
Deleting Users
14 - Searching Active Directory
Connecting to Active Directory to Perform a Search
Creating More Effective Queries
Searching for Specific Types of Objects
What is Global Catalog?
15 - Configuring Networking Components
WMI and the Network
Making the Connection
Changing the TCP/IP Settings
Merging WMI and ADSI
Win32_NetworkAdapterConfiguration
15. Subs and Other Round Things

Working with Subroutines

Calling the Subroutine

Creating the Subroutine

16 - Logon Scripts

Using Logon Scripts

Creating Users and Logging Results

Working with IADsADSystemInfo

Deploying Logon Scripts Using the WshNetwork Class Using the Join Function 17 - Working with the Registry First You Back Up Creating the WshShell Object

Setting the comspec Variable

Defining the Command Line

Connecting to the Registry

Unleashing StdRegProv

Creating Registry Keys

Writing to the Registry

Deleting Registry Information

# 18 - Working with Printers

Working with Win32\_Printer

Obtaining the Status of Printers

Creating a Filtered Print Monitor

Monitoring Print Queues

# 19 - Managing IIS 6.0

What's in a Name?

 $CIM\_ManagedSystemElement$ 

CIM Setting

**IIsStructuredDataClass** 

CIM\_Component

CIM\_ElementSetting

Using MicrosoftIISv2

Making the Connection

Creating a Website

## 20 - Working with Exchange

Working with the Exchange Provider

Connecting to MicrosoftExchangeV2

The Exchange QueueSMTPVirtualServer Class

Exchange Public Folders

Exchange FolderTree

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