



## Aspect Training

Telephone: [0208 942 5724](tel:02089425724)

Email: [info@aspecttraining.co.uk](mailto:info@aspecttraining.co.uk)

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

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## 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

For...Next

Do While...Loop

Do Until...Loop

### **3 - Adding Intelligence**

If...Then

Intrinsic Constants

If...Then...ElseIf

If...Then...Else

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 For...Next 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**

Creating File System Object

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

## **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

## **11 - Using WMI Queries**

Selective Data from All Instances

Selecting Multiple Properties

Specifying Specifics

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

Creating Users and Logging Results

## **16 - Logon Scripts**

Working with IADsADSystemInfo

Using Logon Scripts

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

