

Technical Training Solutions

VB SCRIPTING EDITION & WINDOWS SCRIPTING HOST ESSENTIALS (3 Day Course)

Technical
Course
Outline

Course Summary

The goal of this course is to teach Microsoft Windows 2000 operating system administrators how to take advantage of Windows Script Host (WSH) by using the Microsoft Visual Basic Scripting Edition (VBScript) language. They will be able to develop real world scripts that they can use to manage Windows 2000 networks. This course also provides an overview of other technologies where you can use script, such as Active Server Pages (ASP), Windows Management Instrumentation (WMI), and third-party Component Object Model (COM) components.

Intended Audience:

This course is intended for Windows systems administrators who need to learn how to develop administrative scripts for their enterprise networks. In addition, this course benefits anyone who wants an introduction to the VBScript programming language.

Prerequisites:

To ensure the best learning experience for all participants, the following pre-requisites **must be met** in order to participate in this course:

- Practical experience administering Windows 2000 & later.
- Practical experience administering Active Directory.
- Practical experience administering system security.
- Practical experience administering services.
- Practical experience using systems management information.

Course Contents:

Overview of Windows Automation Technologies

- From Batch Files (.bat) To Scripts (.vbs)
- VBScript & JavaScript
- VBScript & Visual Basic
- System Requirements

Working with Objects

- Object Terminology & Concepts
- Object Instantiation & Usage
- Understanding Object Models
- Common Object Models

Introduction To VBScript

- VBScript Language Fundamentals
 - Naming Rules & Best Practices
 - Comments & Line Indentation
 - Line Continuation
- Data Sub-Types vs. Object Types
- Variables & Variable Scope
- Constants
- Arrays
- Built-In Functions
 - For Type Conversion
 - For Dates & Times
 - For Strings
 - For Math
 - For General Purpose
- Operators
 - Arithmetic
 - Comparison
 - Logical
 - Operator Precedence
- Decision Making Constructs
 - **If...Then...Else**
 - **Select...Case**
- Looping Constructs
 - **For...Next & For Each...Next**
 - **Do...Loop**
- Procedures vs. Functions

VBScript Error Handling and Debugging

- Setting Up Error Handling Code Blocks
- The Err Object
 - Writing Customized Error Handlers
- The Microsoft Script Editor
- Debugging

Introduction To The Windows Scripting Host (WSH)

- Using The WSH To Run Administrative Scripts
- Script Arguments
- Working with Event Logs
- Generating E-Mail Messages
- Managing the Registry
- Working with Drives, Folders, and Files
- Setting Folder-Level and File-Level Security
- Using SendKeys, AppActivate, & Sleep Methods
- Scheduling Scripts

Creating Logon Scripts

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

Understanding Active Directory Services Interface (ADSI)

- ADSI Overview
- Binding with ADSI
- ADSI Objects
- Searching Active Directory
- Creating New ADSI Objects
- Setting Security in Active Directory
- Managing Shares with ADSI
- Controlling Services Using ADSI

Beyond the Basics (overview)

- Using COM Components
- WMI
- Scripting Microsoft Office
- ASP Pages