



Active Server Pages: Level 1

(2 days)

Course description

Overview: Students will learn the benefits of using ASP technology to create dynamic, data-driven Web sites. The course introduces the ASP Object Model, several built-in ASP Components, Scripting Objects, and the ActiveX Data Objects (ADO) Model.

Prerequisites: HTML Programming Levels 1 & 2, Programming Introduction, JavaScript (Level 1) or VBScript (Level 1), SQL Fundamentals of Querying; or equivalent knowledge.

Delivery method: Instructor-led, group-paced, classroom-delivery learning model with structured hands-on activities.

Benefits: Students will learn how to create dynamic, database-driven Web sites. Hands-on tasks follow programming concepts, so that students can immediately implement what they learn.

Target student: Students needing to transform their static HTML-only Web site into a dynamic, data-driven Web site that accesses databases, uses COM components, dynamically serves information from a variety of sources, and much more.

What's next: *Active Server Pages: Level 2*, the second course in this series, uses the concepts and techniques students learned in *Active Server Pages: Level 1* to create a diverse set of Web applications. Along the way students will learn advanced concepts and techniques in Active Server Page programming.

Active Server Pages: Level 1

Performance-based objectives

Lesson objectives help students become comfortable with the course, and also provide a means to evaluate learning. Upon successful completion of this course, students will be able to:

- * Describe what ASP is, what platforms and applications support it, and the role of scripting languages, objects, and components in ASP programming.
- * Use Server-side Includes to improve Web programming efficiency through modularization.
- * Describe the role of the ASP Response object and use its Write, Redirect, and output control properties and methods.
- * Describe the role of the ASP Request object and use its Form, QueryString, and ServerVariables collections to obtain user-supplied information and environment details.
- * Determine the value of cookies in maintaining user state and use the Cookie collections of the Request and Response objects.
- * Describe what ASP components are and use the Server object to instantiate ASP components.

- * Use the Ad Rotator, Browser Capabilities, and Content Linking components.
- * Describe the difference between ASP applications and sessions and use the Global.asa file to launch application and session events.
- * Describe what Scripting Objects are and use the Dictionary, FileSystemObject, and TextStream objects to further enable your ASP Web sites.
- * Describe the relationship between ASP and ADO and create a database connection from a Web site.
- * Use the Recordset object to display database records, create on-the-fly combo boxes and option groups, and filter records based on user input.
- * Add, update, and delete records in a database using both ADO and SQL query methods.
- * Use stored procedures and parameter queries to improve database access on the Web.
- * Create a data browser that allows forward and backward recordset browsing and a paged recordset display system.

Active Server Pages: Level 1

Day 1

Course content

Lesson 1: Introduction to ASP

What is ASP?

ASP Scripting Languages, Objects, and Components

Lesson 2: Server-side Includes

Using Server-side Includes

Using Dynamic Server-side Includes

Lesson 3: The Response Object

What is the Response Object?

The Write Method

The Redirect Method

Controlling Output

Lesson 4: The Request Object

What is the Request Object?

The Form Collection

The QueryString Collection

The ServerVariables Collection

Lesson 5: Cookies

What are Cookies?

The Response.Cookies Collection

The Request.Cookies Collection

Lesson 6: ASP Components, Part 1

What are ASP Components?

The Server Object

The AdRotator Component

Lesson 7: ASP Components, Part 2

The Browser Capabilities Component

Active Server Pages: Level 1

Day 2

Course content

Lesson 8: Applications, Sessions, and the Global.asa

What are ASP Applications and Sessions?
What is the Global.asa?

Lesson 9: Scripting Objects

The Built-in Scripting Objects
The FileSystemObject Object
The TextStream Object

Lesson 10: ASP and the ADO Model

ASP, Databases, and ADO
The Database Environment
Connecting to the Database

Lesson 11: Viewing Database Records

Working with Recordsets
Creating Combo Boxes and Option Groups
Filtering Records

Lesson 12: Adding, Updating, and Deleting Records

Adding Records to a Database
Updating Records in a Database
Deleting Records from a Database

Lesson 13: Stored Procedures and Parameters

Using Stored Procedures
The Command Object
Parameter Queries

Lesson 14: Advanced Recordset Techniques

Editing Records with a Data Browser
Paging Through a Recordset