

# ACTIVE SERVER PAGES (ASP)

## Pre-requisite / Target Trainees:

- A basic knowledge of HTML will be an advantage.
- However a beginner with good learning skills is also able to take this course.

## Software Requirement

- Any text editor like Notepad or Word Pad or MS Word, Dreamweaver etc.
- Any web browser to test pages like Internet Explorer, Netscape Navigator, Google Chrome, Mozilla Firefox, Opera etc.
- Any version of Windows including Windows XP, Windows 2003, Windows 7, Windows 8, Windows 10 etc.

## ASP

### Unit 1: Getting Started With Active Server Pages

- Introduction
- What are Active Server Pages
- Understanding Client – Server Model
- ASP Differs from Client-Side Scripting Technologies
- Running ASP Pages
- Setting up Internet Information Server
- Creating Your First Web Page

### Unit 2: First ASP Script

- Understanding ASP Script
- Separation of Script by Server from Content
- What does Response.Write do
- What does the ASP Script Return to Browser

### Unit 3: Working With Variables

- What is Variable
- Data Type
- Determining Data Types
- Determining Constant and Variables
- Conversion Functions
- VB Script Operators
  - Assignment Operator(=) (VBScript)
  - Arithmetic Operators
  - Concatenation Operators
  - Comparison Operators
  - Logical Operators

### Unit 4: Understanding VB Script Control Structures

- Conditional Statement
  - If Statement
  - Select Case
- Loops
  - For Loops

- For-Next Loops
- For Each Object in Collection
- Do - While loop
- While –Wend Loop
- Infinite Loops

### Unit 5: Using VB Script Built-in Functions

- Typecasting
  - ASC Function
  - CBool Function
  - Cbyte Function
  - CCur Function
  - CInt Function
  - Chr Function
  - CStr Function
- Date Functions
  - CDate Function
  - Date Function
  - DateAdd Function
  - DateDiff Function
  - DatePart Function
  - DateValue Function
  - Day Function
  - FormatDateTime Function
  - Hour Function
  - IsDate Function
  - Minute Function
  - Month Function
  - MonthName Function
  - Now Function
  - Second Function
  - Time Function
  - Timer Function
  - TimeSerial Function
  - WeekDay Function
  - WeekdayName Function
  - Year Function
- String Functions
  - InStr
  - INStrRev
  - LCase
  - Left
  - Len
  - LTrim
  - RTrim
  - Trim
  - Mid
  - Replace

- Right
- Space
- StrComp
- String
- StrReverse
- UCase
- Other Functions

**Unit 6: Working With Objects**

- What is an Object
- How It works
- Properties
- Method
- Event
- ASP Response Object
- ASP Request Object
- ASP Session Object
- ASP Server Object
- ASP Error Object

**Unit 7: Using Response Object**

- Response Object
- Sending HTML to Browser
- Sending User to Another Page

**Unit 8: Communicating With User**

- Receiving Information From User
- Using Form Fields
- Designing Forms
- User Input
- Reading Form Values by ASP
- Request.QueryString
- Validation of Form
- TextBox
- Hidden
- Password
- Checkbox
- Radio Buttons
- Select
- Submit
- Reset

**Unit 9: Collecting the Form Information**

- Retrieving Results of a Form
- Request Object
- The Query String

**Unit 10: Maintaining Persistent Information on the Web**

- Ways to Maintain State
- ASP Session Object

- Session Variable Cookies

**Unit 11: Debugging ASP Scripts and Handling Errors**

- How to Approach Error Handling
- Raising Errors
- Debugging ASP Script

**Unit 12: Using Databases**

- Relational Database Management System
- Working with Database Using ASP
- Recordset Object

**Unit 13: Reading from a Database Using ASP**

- Connection Object
- Connecting to a Database – Method
- An ODBC Connection to an MS Access Database

**Unit 14: Inserting, Updating, and Deleting Database Records**

- Inserting Records Into the Database
- Editing and Updating a Record
- Deleting a Record
- Viewing Records

**Unit 15: Using SQL Statements to Query Data**

- Structured Query Language (SQL)
- SQL Database Tables
- SQL Queries
- Select Distinct Statement
- Using the WHERE Clause
- Using Quotes
- The LIKE Condition
- Executing SQL Statement Using ASP and ADO
- The SELECT Statement