

Course Description

JavaScript Programming

Course: 85-958
Course Length: 1.0 days

Course Description:

You used XHTML to develop web pages with interactive content to attract visitors. In this course, you will develop interactive web content using JavaScript.

Course Objective:

Upon successful completion of this course, students will be able to:

- Create and execute a JavaScript script. They will also identify some guidelines to be followed while writing scripts.
- Display messages on the status bar of the browser window, create a new window that helps open linked pages, and manage the window using the properties and methods of the window object.
- Add content to documents, create dynamic documents, and navigate between layers in a document.
- Create a form, store data in it, and manipulate the data.
- Validate data using control constructs.
- Manipulate numerical, string, and date values.
- Search for a pattern using a regular expression and understand Ajax.

Who should attend:

This course is intended for students who are familiar with developing web pages; students should be proficient in writing XHTML code and using Internet Explorer® and Mozilla Firefox®.

Prerequisites:

Students must have some basic knowledge of programming. They should be able to create web pages using XHTML code. They should also be proficient in using web browsers such as Internet Explorer and Mozilla Firefox.

Hardware Requirements:

- A 1 GHz Pentium®-class processor or faster.
- Minimum 256 MB of RAM.
- A 10 GB hard disk or larger.
- 800 x 600 or greater resolution monitor recommended.
- A mouse or other pointing device.
- A CD-ROM drive.
- A display system to project the instructor's computer screen.
- An active Internet connection.

Software Requirements:

- Microsoft® Windows® XP with Service Pack 2
- Internet Explorer® 7.x
- Mozilla Firefox® 2.x
- Notepad++

Course Content:

Lesson 1: Getting Started with JavaScript

Topic 1A: Create a Basic JavaScript Script

Topic 1B: Execute a Script

Topic 1C: Add Comments to a Script

Lesson 2: Managing the Browser Window

Topic 2A: Display Messages on the Status Bar

Topic 2B: Open a Linked Page in a New Window

Lesson 3: Managing the Document

Topic 3A: Write Content to a Document

Topic 3B: Create a Dynamic Document

Lesson 4: Manipulating Data and Functions

Topic 4A: Create a Form

Topic 4B: Create a Function

Topic 4C: Store Data Using Variables

Topic 4D: Manipulate Data Using Operators

Topic 4E: Convert Data Types

Lesson 5: Validating Statements Using Control Constructs

Topic 5A: Validate Statements

Topic 5B: Execute Statements Iteratively

Lesson 6: Calculating Numerical Values

Topic 6A: Calculate Numerical Values

Topic 6B: Manipulate String Values

Topic 6C: Manipulate Date Values

Lesson 7: Using Regular Expressions and Understanding Ajax

Topic 7A: Use Regular Expressions to Match Patterns in Strings

Topic 7B: Understand the Basics of Ajax