JAVASCRIPT COURSE - INTRODUCTION

This introductory JavaScript training class provides a foundation in using and writing JavaScript and working with jQuery. No previous programming or scripting experience is required. In this instructor-led JavaScript course learn foundation skills through examples and exercises.

WHAT YOU'LL LEARN IN THIS JAVASCRIPT TRAINING COURSE
• Understanding JavaScript Essentials
• Functions and when to use them
• Understanding Objects
• Using Events and Interactivity
• Working with Forms and Conditionals
• Arrays and Looping
• Document Object Model
• Introduction to jQuery

AUDIENCE FOR JAVASCRIPT TRAINING COURSE
This JavaScript training course is for students with no programming background, who wants to learn the fundamentals they need to create dynamic and interactive pages.

TRAINING COURSE DURATION
This class is two days in length. It runs from 9:30pm- 4:30pm each day. Lunch break occurs from approximately noon until 1 pm.

TRAINING COURSE CURRICULUM
This training course uses provided lesson files and instructor selected resources.

ENROLLING IN THIS JAVASCRIPT TRAINING COURSE
You can register for this training class online, or by calling 781-376-6044 or 800-851-9237.

LOCATIONS FOR THIS TRAINING COURSE
You can attend classes at your training centers located in Boston, New York City, Philadelphia, on site at your office, or on-line. You can select the course location at the time of your registration.

GOALS AND OBJECTIVES FOR THE JAVASCRIPT TRAINING COURSE
American Graphics Institute is focused on providing high-quality training courses for your Professional development. We provide regularly scheduled small group courses along with private or customized training.

PRIVATE AND CUSTOMIZED JAVASCRIPT TRAINING COURSE OPTIONS
This training course can be offered as a private class for groups or individuals, and the content can be customized to meet your specific needs. You can call to speak with a training representative at 781-376-6044 or 800-851-9237 to discuss training course customization.

What is JavaScript
- Understanding the role of JavaScript
- Places where JavaScript is used
- Adding JavaScript to an HTML website
- Drawbacks and browser incompatibilities
- JavaScript libraries, plug-ins, and frameworks

Language Essentials
- Storing data in a variable
- Overview of the different types of data
- Understanding operators and expressions
- Working with JavaScript's built-in functions

Defining Functions
- Working with local variables
- Allowing external arguments
- Returning values from functions
- Understanding recursion

Working with Objects
- Identifying the role of Objects
- Defining Objects using JSON
- Accessing properties with the dot syntax
- Working with JavaScript's built-in Objects

Events and Interactivity
- Responding tevents
- Understanding function scope
- Working with the Event Object
- Preventing the default behavior of events
- Understanding event bubbling
- Forms and Conditionals
- Understanding Boolean logic
- Checking multiple conditions at once
- Working with the switch statement
- Overview of HTML forms
- Accessing form fields with JavaScript

Arrays and Looping
- Storing lists of data using Arrays
- Accessing data within an Array
- The structure and purpose of a loop
- Understanding the difference between loops
- Using a loop to access an entire array

The Document Object Model
- The Document Object Model (DOM)
- Finding elements using their ID
- Finding elements using their tag name
- Finding elements based on their context

Introduction to jQuery
- Understanding the purpose of jQuery
- Various uses of the jQuery constructor
- Working with jQuery collections
- Chaining functions to avoid redundancy
- Common jQuery methods and events

Animation with jQuery
- Using the 'animate' method
- Running multiple animations in a row
- Running multiple simultaneous animations
- Stopping a running animation
- Creating a looping animation

Using jQuery Plug-ins
- Overview of common jQuery plug-ins
- A look at the different types of plug-ins
- Understanding the Configuration Pattern
- Working with custom events