Jquery Introduction

Course: **00002**

Filter: **Beginner**

Duration: **3 days**

Category:: **Programming**

Price: **2000,00 €**

About Course

jQuery simplifies the process of creating powerful Web 2.0 applications with dynamic content and visual effects. In this training course, you gain the knowledge and skills to apply jQuery as a tool for rapidly developing feature-rich websites — including how to build standards-compliant responsive web pages with Ajax, design easy-to-use forms, extend jQuery with plugins, and improve user experience.

What you'll learn

- Rapidly develop dynamic Web 2.0 applications with jQuery, HTML, CSS, and Ajax
- Create browser-independent, rich client interfaces
- Enhance HTML forms to use jQuery validation and call web services
- Develop and integrate plugins and incorporate UI components
- Build touch-optimized, cross-device web pages with jQuery Mobile

Pre-requisites

- Experience at the level of Developing a Website, or equivalent experience with HTML and CSS
- JavaScript
- Basic programming concepts

Curriculum

Module 1: jQuery Fundamentals

- Traversing HTML with the jQuery() function
- Introducing the Sizzle CSS selector engine
- Matching nodes by element name, ID, class, position, content, behavior and context
- Chaining calls to the jQuery() function
- Manipulating the Document Object Model (DOM) for Cross-Browser DHTML

Module 2: Adding and replacing content with jQuery

- Updating, adding and deleting element content
- Inserting nodes into the DOM and manipulating parents and siblings

Module 3: Dynamically assigning CSS properties

- Adding and removing CSS rules and classes
- Controlling element size and position

Module 4: Creating accessible, unobtrusive JavaScript

- Leveraging the .ready() method
- Assigning event handlers programmatically

Module 5: Animating Web Pages with jQuery Effects

- Controlling visibility with .hide(), .show() and .toggle()
- Combining animations and responding to callbacks
- Leveraging object literals to control animations
- Developing custom animations with .animate()

Module 6: Building Responsive Pages with Ajax

- Downloading HTML with the .load() method
- Calling web services with .get() and .post()
- Replacing callbacks with chained deferred objects
- Combining Ajax calls with .when() and .then()

- Retrieving JSON with .getJSON()
- Returning and parsing XML with .ajax()

Module 7: Designing User-Friendly Forms

- Selecting and setting focus on the first element
- Responding to focus and blur events
- Providing real-time feedback via keyboard events
- Integrating a validation plugin

Module 8: Extending jQuery with Plugins

- Leveraging contributions from the jQuery community
- Extracting embedded data from semantic HTML
- Manipulating images with slideshows and carousels
- Conforming to best practices and naming conventions
- Handling multiple elements
- Enabling method chaining
- Aliasing $ to avoid namespace conflicts
- Consuming object literals to override defaults

Module 9: Creating Sophisticated User Interfaces with jQuery UI

- Optimize screen surface with accordions and tabs
- Add floating and resizing windows with dialogs
- Provide input assistance with autocomplete
- Creating color animations with .animate()
- Taking advantage of complex animation facilities and effects
- Resizing HTML elements
- Building drag-and-drop user interfaces

Module 10: Building Cross-Platform Mobile Pages with jQuery Mobile

- Structuring pages with HTML5 data-* attributes
- Saving space with listviews and collapsible blocks
- Initializing pages and handling touch events