

jQuery Programming

Audience jQuery Course

The course jQuery Programming is targeted at experienced Web developers who want to use jQuery to implement JavaScript code in Web Applications.

Prerequisites Course jQuery

Knowledge and experience in developing Web Applications and with a scripting language like JavaScript is required to join this course.

Realization Training jQuery

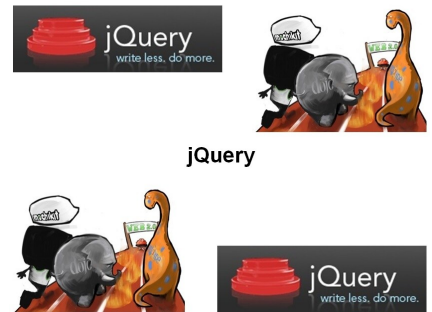
The course has a hands-on nature. The theory is treated by means of presentation slides and is interspersed with practical exercises. Demos are used to clarify the subject matter. A modern JavaScript development environment with debugging capabilities is used. The course times are from 9.30 up and to 16.30.

Certification jQuery

Participants receive an official certificate jQuery after successful completion of the course.

Duration: 2 days

Price: € 1499

[Open Schedule](#)


Content Course jQuery Programming

The course jQuery Programming teaches you how to program one of the most popular JavaScript libraries, jQuery.

jQuery Overview

After an introduction to the installation of jQuery and an overview of the library, scripts are made with the document ready function. Attention is paid to the capabilities of jQuery and its relationship with JavaScript.

DOM Access

Next it is discussed how the contents of a page can be accessed through jQuery script, where HTML tags and attributes are used for identification and styling is done with CSS.

Method Chaining

The relationship with the DOM model of the page is discussed as well. Furthermore attention is paid to the jQuery methods to filter content and also the various ways to optimize code and the use of advanced jQuery chaining statement are part of the course subjects.

Event Handling

After discussing the manipulation of content in a page, the handling of events in jQuery is addressed. The jQuery methods that facilitate event handling are treated and attention is paid to namespaces and event delegation.

Using Effects

The creation of effects with jQuery and the simple and advanced animation features of jQuery are treated as well. The use of animation and effects allows you to build image rotators, animated menus and tooltips, slideshows and modal windows and let Web pages come alive.

Ajax Functionaliteit

Next there is attention to the Ajax functionality of jQuery for dynamically refreshing the page and for partial page updates. Both the simple \$load function to retrieve data and the more sophisticated \$ajax function are discussed and attention is paid to data transmission via JSON, JavaScript Object Notation.

jQuery Plugins

Finally the use of plugins in jQuery, the jQuery UI library and the way to write your own plugins is discussed and attention is paid to a number advanced topics such as performance optimization and caching.

Modules Course jQuery Programming

Module 1 : Intro jQuery	Module 2 : Dynamic HTML	Module 3 : Selectors
What is jQuery? jQuery and Custom JavaScript jQuery versus other Libraries Getting started with jQuery Including jQuery Content Delivery Networks Document Ready? Script Execution Order onLoad versus document.ready jQuery Function Object Where to run Scripts?	Dynamic HTML Building a HTML DOM tree DOM Representation DOM Node Types Properties of Node Types DOM Methods for Navigation DOM Node Object Methods Element Access Event Handlers CSS Style Sheets Rendering with CSS	jQuery Selection Basic Selectors Hierarchy Selectors Selection by Attribute Position Filters Form Selectors Other Selection Filters jQuery Method Chaining DOM Traversal Filter Methods Advanced Method Chaining
Module 4 : DOM Manipulation	Module 5 : CSS Styling	Module 6 : Events
DOM Manipulation Creating Elements Inserting Elements Inserting as Child Mass Insertion Moving Elements Cloning Elements Replacing Elements Get Element Content Access Element Attributes	Browser Inconsistencies Reading CSS Properties Modifying CSS Properties Shorthand CSS Properties Removing CSS Properties CSS Classes Element Height Dimensions Element Width Dimensions Position Changes Element Positions	DOM Level 2 Event Model jQuery Event Model Binding an Event Handler Binding Shortcut Methods Event Object Unbinding Handlers One Shot Handlers Event Delegation .live versus .delegate Triggering Events
Module 7 : Effects and Animations	Module 8 : Ajax Fundamentals	Module 9 : jQuery Ajax
jQuery Built-in Effects Showing Elements Hiding Elements Fading Effects Sliding Effects Creating Animations Animation Notes Animation Queues Stopping Animations Animation Controls	Ajax Web App Model Typical Ajax Interactions Creating XMLHttpRequest XMLHttpRequest Methods Sending the Request XMLHttpRequest Properties XMLHttpRequest readyState Listening for Response Processing the Response Ajax Pitfalls	Ajax in jQuery Ajax Options Ajax Limitations Loading Page Fragments jQuery.getJSON Ajax Global Settings Ajax Events Global Ajax Event Handlers Error Handling Ajax Request Completion
Module 10 : Plugins	Module 11 : jQuery UI	Module 12 : Advanced Topics
Easing Plugin Standard Easing Functions ColorBox Plugin Using ColorBox ColorBox Options Cycle Plugin Cycle Methods Validation Plugin Validation Rules DataTable Plugin Creating Plugins	jQuery UI Getting Started Themes jQuery Widgets Accordion Widget Tabs Widget Dialog Widget jQuery UI Controls Date Picker Widget Slider Widget jQuery UI Animation	Best Practices for Loops Avoid Anonymous Functions Optimizing Selectors Sizzle Selector Engine jQuery Utility Methods Test Variable Type Extend Objects Avoiding Conflicts noConflict Method Queuing Animations Dequeuing Animations