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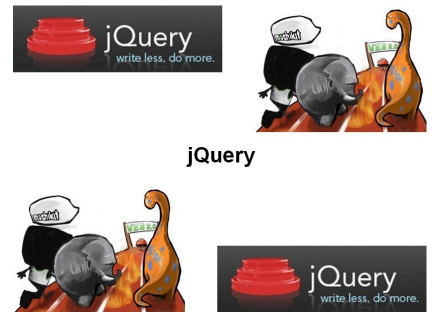
Certification jQuery
Participants receive an official certificate jQuery after successful completion of the course.

Duration: 2 days   **Price: € 1499**

Open Schedule

jQuery

Content 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 jQuery Programming

Module 1 : Intro jQuery	Module 2 : Dynamic HTML	Module 3 : Selectors
What is jQuery?	Dynamic HTML	jQuery Selection
jQuery and Custom JavaScript	Building a HTML DOM tree	Basic Selectors
jQuery versus other Libraries	DOM Representation	Hierarchy Selectors
Getting started with jQuery	DOM Node Types	Selection by Attribute
Including jQuery	Properties of Node Types	Position Filters
Content Delivery Networks	DOM Methods for Navigation	Form Selectors
Document Ready?	DOM Node Object Methods	Other Selection Filters
Script Execution Order	Element Access	jQuery Method Chaining
onLoad versus document.ready	Event Handlers	DOM Traversal
jQuery Function Object	CSS Style Sheets	Filter Methods
Where to run Scripts?	Rendering with CSS	Advanced Method Chaining

Module 4 : DOM Manipulation	Module 5 : CSS Styling	Module 6 : Events
DOM Manipulation	Browser Inconsistencies	DOM Level 2 Event Model
Creating Elements	Reading CSS Properties	jQuery Event Model
Inserting Elements	Modifying CSS Properties	Binding an Event Handler
Inserting as Child	Shorthand CSS Properties	Binding Shortcut Methods
Mass Insertion	Removing CSS Properties	Event Object
Moving Elements	CSS Classes	Unbinding Handlers
Cloning Elements	Element Height Dimensions	One Shot Handlers
Replacing Elements	Element Width Dimensions	Event Delegation
Get Element Content	Position Changes	.live versus .delegate
Access Element Attributes	Element Positions	Triggering Events

Module 7 : Effects and Animations	Module 8 : Ajax Fundamentals	Module 9 : jQuery Ajax
jQuery Built-in Effects	Ajax Web App Model	Ajax in jQuery
Showing Elements	Typical Ajax Interactions	Ajax Options
Hiding Elements	Creating XMLHttpRequest	Ajax Limitations
Fading Effects	XMLHttpRequest Methods	Loading Page Fragments
Sliding Effects	Sending the Request	jQuery.getJSON
Creating Animations	XMLHttpRequest Properties	Ajax Global Settings
Animation Notes	XMLHttpRequest readyState	Ajax Events
Animation Queues	Listening for Response	Global Ajax Event Handlers
Stopping Animations	Processing the Response	Error Handling
Animation Controls	Ajax Pitfalls	Ajax Request Completion

Module 10 : Plugins	Module 11 : jQuery UI	Module 12 : Advanced Topics
Easing Plugin	jQuery UI	Best Practices for Loops
Standard Easing Functions	Getting Started	Avoid Anonymous Functions
ColorBox Plugin	Themes	Optimizing Selectors
Using ColorBox	jQuery Widgets	Sizzle Selector Engine
ColorBox Options	Accordion Widget	jQuery Utility Methods
Cycle Plugin	Tabs Widget	Test Variable Type
Cycle Methods	Dialog Widget	Extend Objects
Validation Plugin	jQuery UI Controls	Avoiding Conflicts
Validation Rules	Date Picker Widget	noConflict Method
DataTable Plugin	Slider Widget	Queuing Animations
Creating Plugins	jQuery UI Animation	Dequeuing Animations