



- CYU – Check Your Understanding
- LOTW – Learning On The Walls
- PPR – Participant Progress Report
- PTS – Post Training Support (Web)

JQUERY

Duration: 3 Days

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

- ❖ Adding and replacing content with jQuery
- ❖ Updating, adding and deleting element content
- ❖ Inserting nodes into the DOM and manipulating parents and siblings

DYNAMICALLY ASSIGNING CSS PROPERTIES

- ❖ Adding and removing CSS rules and classes
- ❖ Controlling element size and position
- ❖ Creating accessible, unobtrusive JavaScript
- ❖ Leveraging the .ready() method
- ❖ Assigning event handlers programmatically

ANIMATING WEB PAGES WITH JQUERY EFFECTS

- ❖ Enhancing pages with simple animations
- ❖ Controlling visibility with .hide(), .show() and .toggle()
- ❖ Combining animations and responding to callbacks

PROGRAMMING COMPLEX ANIMATIONS

- ❖ Improving animation with easings
- ❖ Leveraging object literals to control animations
- ❖ Developing custom animations with .animate()

BUILDING RESPONSIVE PAGES WITH AJAX

- ❖ Updating page components asynchronously
- ❖ Downloading HTML with the .load() method
- ❖ Calling web services with .get() and .post()

CONVERTING SERIALIZED SERVER DATA TO HTML

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

DESIGNING USER-FRIENDLY FORMS

- ❖ Exploring jQuery tools for forms manipulation
- ❖ 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

- ❖ Applying predefined rules from CSS classes
- ❖ Validating onsubmit and onblur

EXTENDING JQUERY WITH PLUGINS

- ❖ Integrating popular plugins
- ❖ Leveraging contributions from the jQuery community
- ❖ Extracting embedded data from semantic HTML
- ❖ Manipulating images with slide shows and carousels



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DEVELOPING JQUERY PLUGINS

- ❖ Conforming to best practices and naming conventions
- ❖ Handling multiple elements
- ❖ Enabling method chaining
- ❖ Aliasing \$ to avoid namespace conflicts
- ❖ Consuming object literals to override defaults
- ❖ Creating Sophisticated User Interfaces with jQuery UI

MANAGING STYLES FOR A UNIFORM LOOK AND FEEL

- ❖ Downloading and customizing jQuery UI
- ❖ Selecting predefined themes

INTEGRATING WIDGETS FOR HIGHLY INTERACTIVE WEB APPLICATIONS

- ❖ Optimizing screen real estate with accordions and tabs
- ❖ Adding resizable, floating windows with dialog
- ❖ Providing input assistance with autocomplete

IMPLEMENTING EFFECTS

- ❖ Creating color animations with .animate()
- ❖ Leveraging complex animation easings and effects

ADDING WEB 2.0 FUNCTIONALITY

- ❖ Resizing HTML elements
- ❖ Building drag-and-drop user interface