

“AJAX Web Development with PHP and Javascript Frameworks” Course Content

No	Topics	Sub-Topics	Learning Outcomes	Duration (hrs/min)
1	Web development with a PHP framework	The MVC design pattern, models, controllers, URL resolution, scaffolding	The trainee will create a small web application based on the MVC design pattern to understand how a typical PHP framework structure such as a web application.	3:00
2	Implementing controllers	Naming conventions, database design, associations, database conventions	The trainee will build models (and test them) for databases with complex relationships between tables.	3:00
3	Customizing views	Individual views, layouts, adding actions to controllers, handling user interactions, customizing HTML forms	The trainee will build simple views and enhance them to handle user interactions like a simple page request, form submission and filling form fields for editing.	3:00
4	Building a complete web application	Actions, customizing controllers, models, data validation, performance considerations	The trainee will build a complete web application which is flexible, efficient and easy to maintain using the MVC design pattern.	3:00
5	Client-side programming with JavaScript	Objects and properties, object literals (JSON), functions, callbacks, closures	The trainee will write and debug JavaScript scripts running in a browser.	3:00
6	Using a JavaScript framework	Unobtrusive JavaScript, wrapped element sets, selectors, HTML generation	The trainee will use a JavaScript framework to generate new content, manipulate properties & attributes and change elements styling.	3:00
7	Manipulating the DOM	The browser event model, binding event handlers, event propagation, event triggering	The trainee will manipulate the Document Object Model programmatically and by binding event handlers to specific events.	3:00
8	Animation and Effects	Showing & hiding elements, animation, custom animations	The trainee will create animated webpages using collapsible lists, fading & sliding effects and custom animations.	3:00
9	Ajax	Integrating PHP and JavaScript frameworks, making requests, getting data, JSON	The trainee will enhance existing webpages with Ajax by integrating a PHP framework and a JavaScript framework.	3:00
10	Further Ajax	Ajax helpers, file uploads, trimming Ajax requests for maximum performance	The trainee will implement progressively more complex Ajax components.	3:00