



IT252: Front End Developer

Training Description:

The Front-End Developer training course is a five-day comprehensive and practical program designed to provide participants with comprehensive knowledge and hands-on experience in modern front-end web development. In today's digital environment, user experience, responsive design and interactive interfaces are critical components of successful websites and web applications. Organizations across industries depend on skilled front-end developers to transform design concepts into functional, user-friendly and high-performing digital products.

This intensive training course offers a structured learning path covering the core building blocks of front-end development including HTML, CSS and JavaScript, followed by advanced concepts such as responsive design, modern frameworks, API integration, performance optimization and deployment practices. Participants will gain practical experience in building dynamic and interactive web interfaces while applying industry best practices and coding standards.

By the end of the course, participants will be able to design, develop and deploy responsive web applications, write clean and maintainable code, integrate front-end components with backend services and optimize performance for modern browsers and devices. The training course strengthens technical competence, problem-solving ability and professional confidence in front-end development environments.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Understand the fundamentals of web technologies and browser architecture
- ✓ Structure web pages using semantic HTML5
- ✓ Design responsive layouts using CSS3 and Flexbox/Grid
- ✓ Apply modern styling techniques and UI best practices
- ✓ Write interactive functionality using JavaScript
- ✓ Manipulate the DOM and handle events effectively
- ✓ Work with APIs and asynchronous JavaScript (Fetch, JSON)
- ✓ Use version control systems such as Git
- ✓ Understand modern front-end frameworks (e.g., React overview)
- ✓ Optimize web performance and ensure cross-browser compatibility
- ✓ Deploy front-end applications to production environments
- ✓ Build a complete responsive web application project

Training Designed for:

This training course is designed for aspiring front-end developers, junior web developers and IT professionals seeking to strengthen their web development skills. It is also suitable for software engineers transitioning into front-end roles, UI/UX designers who want to enhance their technical implementation skills and technical professionals involved in web-based application development.

Students, graduates in computer science and professionals working in digital marketing, product development or technology departments will benefit from gaining structured and practical front-end development expertise.

Training Requirement:

“Hands on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

FUNDAMENTALS OF WEB TECHNOLOGIES AND HTML5

- ❖ Understanding the Structure of the Web
 - How the internet and web browsers work
 - Client-server architecture basics
 - Introduction to front-end vs back-end development
 - Overview of development tools and environment setup
 - Introduction to HTML5 and document structure
 - Semantic elements and page layout structure
 - Forms, inputs and validation basics
 - Accessibility fundamentals and best practices
 - Practical lab: Creating a structured multi-page website

DAY TWO:

CSS3 AND RESPONSIVE WEB DESIGN

- ❖ Designing Modern and Responsive User Interfaces
 - Introduction to CSS and styling principles
 - Selectors, properties and cascading rules
 - Box model, positioning and display properties
 - Flexbox layout system
 - CSS Grid fundamentals
 - Responsive design principles
 - Media queries and mobile-first design
 - Introduction to UI/UX design considerations
 - Basic animations and transitions
 - Workshop: Building a responsive landing page

DAY THREE:

JAVASCRIPT FUNDAMENTALS AND DOM MANIPULATION

- ❖ Adding Interactivity and Logic to Web Applications
 - Introduction to JavaScript and programming basics
 - Variables, data types and operators
 - Functions and control structures
 - Arrays and objects
 - DOM structure and manipulation
 - Event handling and user interaction

- Form validation with JavaScript
- Debugging techniques and browser developer tools
- Mini project: Interactive to-do list application

DAY FOUR:

ADVANCED JAVASCRIPT AND MODERN FRONT-END TOOLS

❖ Building Dynamic and Data-Driven Applications

- Asynchronous JavaScript (Promises, async/await)
- Working with APIs and Fetch
- JSON data handling
- Introduction to version control with Git
- Overview of package managers (npm)
- Introduction to modern frameworks (React overview)
- Component-based architecture concepts
- Workshop: Building a simple API-integrated web app

DAY FIVE:

PERFORMANCE, TESTING AND DEPLOYMENT

❖ Preparing Applications for Production

- Web performance optimization techniques
- Code optimization and best practices
- Cross-browser compatibility testing
- Basic web security considerations (XSS, input validation)
- Introduction to testing concepts
- Build and deployment process
- Hosting and publishing a web application
- Final capstone project development
- Group presentation: Complete responsive web application

❖ Course Conclusion

❖ POST-ASSESSMENT and EVALUATION

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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