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FULL STACK COURSE IN COIMBATORE

If you are looking to enhance your skills in software testing, consider enrolling in a software testing course in Coimbatore. Software testing is a crucial process in application development, as it helps identify and rectify any bugs or issues that may arise. The main goal of software testing is to ensure that the application meets the requirements and delivers the desired results, ultimately leading to a high-quality product that satisfies the customer. By conducting thorough testing, potential damages or flaws can be detected and addressed, saving costs in the long run and building customer confidence in the application. Litz Tech at Coimbatore offers courses that can provide you with the knowledge and skills needed to excel in software testing.

It covers all the necessary concepts and techniques, starting with the fundamentals and gradually moving towards more advanced topics. You'll have the opportunity to gain practical experience in both manual and automated testing, and you'll also be introduced to popular software testing technologies like Selenium WebDriver. By the end of the training, you'll have a solid understanding of software testing and be ready to embark on a successful career in this field.

WHY SOFTWARE TESTING COURSE?

- ➡ Train from professionals with industry experience
- ➡ Learn theoretical concepts and gain hands-on training simultaneously
- ➡ Realtime Hands-On Practical Experience Training to imbibe corporate practices Get certified at the end of the training
- ➡ Receive placement support once the training is completed ➡
Getting exposure to latest technology up gradations
- ➡ Advanced lab facility and most updated syllabus and materials will be provided with learning tools for easy learning
- ➡ You will have the access to contact the trainers at any time

Course Syllabus

- Introduction to Programming
- Frontend Development (HTML, CSS, JavaScript)
- Advanced JavaScript (ES6+)
- Frontend Framework (React.js / Angular)
- Backend Development (Java / Node.js / PHP / Python)
- Database (SQL + NoSQL)
- API Development & Integration
- Version Control (Git + GitHub)
- DevOps (CI/CD, Jenkins, Docker)
- Automation Testing (Selenium + TestNG)
- Framework Development
- Cloud Basics (AWS)
- Real-Time Project

1. Introduction to Programming

- What is Programming?
- Types of Programming Languages
- Compiler vs Interpreter
- Basics of Logic Building
- Flowcharts & Algorithms
- SDLC (Software Development Life Cycle)

2. Frontend Development – HTML

- What is HTML?
- Structure of HTML Document
- Tags, Elements, Attributes
- Forms & Input Types
- Tables & Lists

- Semantic HTML
- Multimedia (Audio, Video)

3. Frontend Development – CSS

- What is CSS?
- Types of CSS (Inline, Internal, External)
- Selectors & Properties
- Box Model
- Flexbox
- Grid System
- Responsive Design (Media Queries)
- Animations & Transitions

4. JavaScript (Core)

- Introduction to JavaScript
- Variables (var, let, const)
- Data Types
- Operators
- Functions
- Arrays & Objects
- DOM Manipulation
- Events Handling
- Error Handling

5. Advanced JavaScript (ES6+)

- Arrow Functions
- Template Literals
- Destructuring
- Spread & Rest Operators
- Promises
- Async / Await

- Modules
- Closures

6. Frontend Framework (React.js)

- Introduction to React
- Components (Functional & Class)
- JSX
- Props & State
- Event Handling
- Hooks (useState, useEffect)
- Routing
- API Calls (Fetch / Axios)
- Forms Handling
- Project Structure

7. Backend Development (Choose Any One / Multi)

Java Backend (Spring Boot)

- Introduction to Java Backend
- Spring Boot Basics
- REST API Development
- Dependency Injection
- MVC Architecture

Node.js Backend

- Introduction to Node.js
- NPM
- Express.js
- Routing
- Middleware
- REST API

PHP Backend

- PHP Basics
- Forms Handling
- Sessions & Cookies
- CRUD Operations

Python Backend (Django / Flask)

- Python Basics
- Django Framework
- Routing & Views
- ORM

8. Database (SQL + NoSQL)

SQL (MySQL)

- Database Basics
- Tables & Keys
- SQL Queries:
 - SELECT
 - INSERT
 - UPDATE
 - DELETE
- Joins
- Indexes

NoSQL (MongoDB)

- Introduction to NoSQL
- Collections & Documents
- CRUD Operations
- Aggregation

9. API Development & Integration

- What is API?
- REST API Concepts
- JSON & XML
- API Testing (Postman)
- Authentication (JWT, OAuth)
- Connecting Frontend with Backend

10. Version Control (Git + GitHub)

- What is Git?
- Git Installation
- Git Commands:
 - clone
 - commit
 - push
 - pull
- Branching
- Merging
- GitHub Repository

11. DevOps Basics

- What is DevOps?
- CI/CD Pipeline
- Jenkins Setup
- Build Automation
- Docker Basics
- Containerization

12. Automation Testing (Selenium + Java)

- Introduction to Automation Testing
- Selenium WebDriver

- Locators (XPath, CSS)
- Web Elements Handling
- Waits (Implicit, Explicit)
- TestNG Framework
- Assertions
- Parallel Execution

13. Framework Development

- What is Framework?
- Page Object Model (POM)
- Data Driven Framework
- Hybrid Framework
- Logging & Reporting
- Reusable Components

14. Database Testing

- JDBC
- Database Connection
- Query Validation
- Integration with Selenium

15. CI/CD (Jenkins + GitHub)

- Jenkins Installation
- Build Jobs
- Scheduling
- Integration with GitHub
- Running Automation Tests

16. Selenium Grid

- Grid Setup
- Hub & Node
- Parallel Testing
- Cross Browser Testing

17. Cloud Basics (AWS)

- Introduction to Cloud
- AWS Services Overview
- EC2 (Virtual Server)
- S3 (Storage)
- Deployment Basics

18. Real-Time Projects

- Full Stack Web Application
- REST API Project
- Automation Testing Project
- CI/CD Pipeline Setup
- Deployment on Cloud

Our Training Benefits

Check out our innovative key features in training methodologies. Our flexible training mechanisms incorporate all techniques right from knowledge assessment till setting placement records.

- ➔ Gain knowledge from experienced professionals in the field.
 - ➔ Learn both theoretical concepts and gain practical experience at the same time.
 - ➔ Training that provides real-world, hands-on experience in order to teach proper workplace practices.
 - ➔ Grab certification upon completion of training
 - ➔ Receive placement assistance following completion of training
- Being exposed to the most recent technological advancements.

- ➔ Learning tools will be provided along with the most up-to-date lab facilities, curriculum, and course materials
- ➔ You will be able to connect with the trainers at any time.