

HackForge Academy

React Certification Training

Total 30 Hours

Live Online | Andhra Pradesh | Telangana | Tamil Nadu | Karnataka

Phone :9884789292

Module 1: Web Development Fundamentals

- How the Internet works
 - Client vs Server
 - HTTP / HTTPS basics
 - Browser rendering process
 - Developer tools (Chrome DevTools)
 - VS Code setup & extensions
 - Git & GitHub basics
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Module 2: HTML5 Essentials

Structure of modern web pages

- HTML document structure
 - Semantic elements
 - Headings, paragraphs, links
 - Lists & tables
 - Images, audio, video
 - Forms & input types
 - Accessibility basics
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Module 3: CSS3 Fundamentals

Designing responsive layouts

- Selectors & specificity
 - Colors & typography
 - Box model
 - Display properties
 - Positioning
 - Flexbox
 - Grid layout
 - Media queries
 - Responsive design
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Module 4: Advanced CSS & UI Design

Modern interface styling

- CSS variables
 - Transitions & animations
 - Hover effects
 - Responsive navigation bars
 - Card layouts
 - Mobile-first design
 - Tailwind CSS (optional)
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Module 5: JavaScript Fundamentals ★

Core programming logic for frontend

- Variables (var, let, const)
 - Data types
 - Operators
 - Functions
 - Arrays & objects
 - Loops
 - Conditional statements
 - DOM manipulation
 - Event handling
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Module 6: Advanced JavaScript (ES6+) ★★★

Modern JavaScript required for React

- Arrow functions
 - Destructuring
 - Spread & rest operators
 - Template literals
 - Modules (import/export)
 - Closures
 - Hoisting
 - Callbacks
 - Promises
 - Async / Await
 - Fetch API
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Module 7: React Fundamentals

Component-based UI development

- Introduction to React
 - JSX
 - Functional components
 - Props
 - State
 - Event handling
 - Conditional rendering
 - Lists & keys
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Module 8: React Hooks (Modern React)

Core hooks used in real projects

- useState
 - useEffect
 - useRef
 - useContext
 - Usememo
 - useCallback
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Module 9: React Advanced Concepts

Building scalable applications

- Component architecture
 - Reusable components
 - Forms handling
 - Lifting state up
 - Context API
 - Custom hooks
 - Environment variables
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Module 10: Routing & API Integration

Connecting frontend with backend

- React Router setup
 - Dynamic routes
 - Navigation handling
 - Axios integration
 - Fetching REST APIs
 - Loading states
 - Error handling
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Module 11: Project Development ★

Real-world frontend application

- Authentication UI
 - Dashboard layout
 - API-based project
 - Responsive UI implementation
 - Component reuse strategy
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Module 12: Deployment & Best Practices

Making apps production-ready

- Build optimization
- Environment configs
- Deploy to Vercel / Netlify
- Performance improvements
- Clean folder structure

Git & Version Control

- Version control concepts
- Git installation
- Git workflow
- Branching strategies
- Merge vs rebase
- Resolving conflicts
- GitHub / GitLab usage

Module 1: DevOps Fundamentals

- What is DevOps?
- DevOps lifecycle
- Agile vs DevOps
- CI/CD concepts
- Infrastructure as Code (IaC)
- DevOps roles & responsibilities
- DevOps toolchain overview

Module 4: CI/CD with Jenkins

- Continuous Integration basics
- Jenkins architecture
- Installing Jenkins
- Creating pipelines
- Freestyle jobs
- Jenkinsfile (pipeline as code)
- Integrating Git with Jenkins
- Automated builds

Module 5: Docker (Containerization)

- Virtualization vs Containers
- Docker architecture

- Installing Docker
- Docker images & containers
- Dockerfile creation
- Docker volumes
- Docker networking
- Docker Compose

Cloud Computing (AWS Recommended)

Core services:

- EC2
- S3
- IAM
- VPC basics
- Load Balancer
- Auto Scaling
- CloudWatch monitoring

Deployment practice:

- Host application on EC2
- Store files in S3
- Configure IAM roles

Monitoring & Logging

Tools:

- Prometheus
- Grafana
- ELK Stack

Concepts:

- Metrics monitoring
- Log aggregation
- Alerting systems
- Dashboard creation

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