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## Advanced Angular Development (NGADV)

ID NGADV Price CHF 3,830.—(excl. VAT) Duration 5 days

### Course Content

- **Standalone Components - Concepts & Migration:** Understand the differences between standalone components and modules, delve into Angular's bootstrapping process, and learn how to migrate an existing project to use standalone components.
- **Components & Forms Deep Dive:** Explore advanced component and form techniques, including control flow syntax, deferred loading, content projection, cascading reactive forms, and creating custom controls with enhanced validation and error handling.
- **Mastering Reactive Programming using RxJS:** Master RxJS concepts like observables, operators, and error handling strategies, along with practical debugging and testing techniques for implementing custom observable operators.
- **Mastering Reactivity using Signals:** Learn about signals and their interoperability with observables, data retrieval methods, and effective communication between components using advanced signal techniques and the Event Bus pattern.
- **State Management using NgRx Classic & NgRx SignalStore:** Discover state management patterns, implement both NgRx Classic and SignalStore, manage side effects, and create custom store features while tracking state changes efficiently.
- **Advanced Routing and App Initialization:** Gain deep insights into dependency injection, app initialization, global error handling, and advanced routing techniques including view transitions, auxiliary routes, and router animations.
- **Advanced Testing with Jasmine, Jest, Cypress and NgRx:** Comprehensively test Angular applications using tools like Jasmine, Jest, and Cypress, covering unit tests, complex form testing, state management testing, and end-to-end testing.
- **Reusability with Libraries, Nx & Angular Elements:** Create reusable Angular artifacts using libraries and Nx workspaces, and develop reusable components like an AI chat using Angular Elements.
- **Real Time Micro-Frontends & Progressive Web Apps:** Understand micro-frontends and progressive web apps, focusing on real-time connected micro-frontends, HTML5 APIs, service workers, and PWA installation and updates.
- **Server Side Rendering (SSR):** Get introduced to SSR, including build-time pre-rendering, optimizing components for server-side, hybrid rendering, and incremental hydration for improved performance.
- **Optimizing Applications:** Use tools like Chrome Dev Tools and Lighthouse to optimize application performance, analyze bundles, improve change detection, provide localization and ensure accessibility and configuration management best practices.

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## Training Centres worldwide



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