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Selenium and Playwright Test Automation

OEM: Koenig Original • Duration: 10 Days (80 hrs)

COURSE MODULES & TOPICS

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- Testing levels
- Functional and regression testing
- Automation strategy and feasibility
- Test design techniques
- Framework overview

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- Variables and data types
- Operators and conditions
- Loops and functions
- Arrays and objects
- Classes and inheritance
- Modules
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Module 3: Advanced JavaScript and Node.js

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- Callbacks
- Event loop concepts
- npm and package management
- Node.js project structure
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Module 4: Selenium WebDriver Architecture and Setup

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- Browser commands
- WebDriver lifecycle

Module 5: Selenium Locators and Web Element Interactions

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- Relative and dynamic locators
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Module 6: Selenium Advanced Browser Interactions

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- Keyboard and mouse actions
- JavaScript executor
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Module 7: Selenium Synchronization and Wait Strategies

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- Fluent waits
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- Page Object Model
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Module 9: Selenium TestNG / Jest and Execution

- Test suites and annotations
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Module 10: Selenium Advanced Automation and Best Practices

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Module 11: Introduction to Playwright

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Module 15: Playwright Framework Development

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Module 16: Playwright Test Execution and Reporting

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- Retries
- Test tagging
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- Cross-browser testing
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Module 17: API Testing and Integration

- REST fundamentals
- HTTP methods and status codes

- Request payloads
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- API automation using Playwright

Module 18: Automation Framework Comparison and Optimization

- Selenium vs Playwright
- Framework selection
- Maintainability
- Execution performance
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Module 19: Capstone Project and Assessment

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- Reusable framework
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- Debugging
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