ACE IT CAREERS
BEST CAREER BUILDER

TESTING & QA · COURSE SYLLABUS

Tricentis Tosca Test Automation

Mastering Tosca: end-to-end test automation with Tricentis. Learn model-based testing, build reusable automation for web, API and database testing, and integrate Tosca with Jenkins for CI/CD.

7 Weeks | Live online | Placement support

Syllabus

WEEK 1

Tosca foundation

- What is Tricentis Tosca?
- Installation and setup (trial version)
- Tosca Commander overview
- Workspace structure
- Key terms: Modules, TestCases, TestSteps, ExecutionLists

WEEK 2

Core concepts, hands-on

- Scanning web and desktop applications
- Creating Modules with XScan
- Creating TestCases from Modules
- Mapping test data and test steps
- Requirements management in Tosca
- Creating and running ExecutionLists

WEEK 3

Test case design and optimization

- Test case design templates
- TestSheets, attributes and instances
- Data-driven testing
- Test configuration parameters and business parameters
- Reusable test cases and libraries

WEEK 4

Test execution and reporting

- Execution best practices
- Analyzing execution logs
- Recovery and clean-up scenarios
- Execution modes: manual, ScratchBook and ExecutionList
- TestEvent configuration
- Reporting with JIRA/Xray (demo)

WEEK 5

Capstone project

- Real-time e-commerce or banking application
- Complete end-to-end automation suite
- Login, search, add to cart and checkout flows
- Dynamic objects and waits
- Validations and assertions

WEEK 6

Integrations and API testing

- Tosca CI/CD pipeline with Jenkins
- API Scan and API Module creation
- REST and SOAP API testing
- Database testing with Tosca
- Excel integration for data-driven testing
- Test Data Service (TDS)

WEEK 7

Advanced topics

- TBox framework and standard modules
- Buffers and expressions
- Conditions and loops
- Dynamic test case generation
- Custom controls and extensions
- Tosca scripting with JavaScript (optional)

What you will be able to do

- Understand model-based testing and how Tosca applies it
- Create reusable, maintainable and scalable test automation
- Integrate Tosca with Jenkins for CI/CD
- Automate end-to-end test cases for web, API and databases
- Prepare for Tosca certification and real job interviews

Included with every course

- Live instructor-led classes in US time zones, with session recordings
- Real-time project work and a certificate
- Resume preparation and marketing, mock interviews and placement support