

soapUI Training Class Topics

- Service testing foundational concepts
 - XML, XML namespaces, XML schema, XPath, XQuery
 - WSDL and SOAP
 - WADL and REST
- *Mission-critical Service Testing* methodology
 - Thoroughly test your services
 - Test using large amounts of realistic data
 - Make sure you govern your services
 - Get the most productivity from your developers and testers
 - Fully track your test results
 - Test your services under realistic loads
 - Make sure your services are secure
- soapUI architecture
 - Choosing optimal settings
 - Properties
- Projects
 - Composite projects
- Interfaces, Operations, Requests
 - Validating request inputs
 - Creating multiple requests
- TestSuites
- TestCases
- TestSteps
 - Test Request
 - Groovy script
 - Properties
 - Property transfer
 - Conditional Goto
 - Delay
 - Run TestCase
 - REST Test Request
 - HTTP Test Request
 - Mock response
 - JDBC Test Request
 - JMS Test Request
 - AMF Test Request
 - DataSource
 - DataSource Loop
 - DataSink
 - DataGen
- Assertions
 - SOAP/non-SOAP
 - CONTAINS/Not CONTAINS

- SOAP fault/non-SOAP fault
 - Response SLA
 - XPath/XQuery match
 - Script
- Functional tests
- Requirements
 - Project-level requirements
 - TestCase-level requirements
- Mock services
 - Configuring responses
 - Scripting
 - Routing
- Data-driven tests
 - Feeding a test with data
 - Associating assertions with data-driven tests
 - Writing test results
- Refactoring
 - Messages
 - Operations
- Monitoring network traffic
- Load testing
 - Functional
 - Behavioral
 - Performance
 - Requirements-driven
- Test coverage
 - Configuring measurements
- Web service interoperability
 - Basic profile
- The Groovy programming language
 - Flow control
 - The soapUI object model
 - Dynamic test management
- Monitoring
 - SOAP traffic
 - TCP/IP traffic
- Reporting
 - JUnit
 - Data export
 - Jasper
- Event handlers
- Security considerations
 - Authentication
 - Authorization

The format of the class is 25% lecture, 75% hands-on lab work. Each student is required to have access to a computer for the hands-on lab sessions. All necessary software will be provided prior to class.