

## KATALON KICKSTART TRAINING

- **Description:** This course lays the foundation for applying Katalon Studio into test automation. After the course, you will gain a better understanding on creating simple test cases for Web UI, API, and mobile testing. You will also learn the best practices, tips and tricks to work around on complex situations. This course includes practical demonstrations and hands-on assignments.
  
- **What you will learn:**
  - How to set up Katalon Studio
  - How to set up automation projects
  - Modes of test creation
  - Logging and reporting
  - Managing execution environments
  - Working with Web objects
  - Katalon plugins
  - Debugging and troubleshooting

COURSE AGENDA		
1	Introduction and Getting Started	<ul style="list-style-type: none"><li>● What is Katalon Studio?</li><li>● Why should you use this tool?</li><li>● What can you use Katalon Studio for?</li></ul>
2	Download and Set up	<ul style="list-style-type: none"><li>● Software prerequisites</li><li>● Hardware and software configurations</li><li>● How to set up Katalon Studio</li></ul>
3	Explore GUI and Features	<ul style="list-style-type: none"><li>● Tour of Katalon Studio GUI</li><li>● Katalon Studio features</li><li>● Settings and preferences</li></ul>
4	Create Automation Tests	<ul style="list-style-type: none"><li>● Step-by-step guide to create automation tests in Katalon Studio</li><li>● Different ways to create automation tests</li></ul>

5	Modes in Katalon Studio	<ul style="list-style-type: none"> <li>• How to create tests in Record mode</li> <li>• How to create tests in Manual mode</li> <li>• How to create tests in Script mode</li> </ul>
6	Test Creation Demo	<ul style="list-style-type: none"> <li>• Use Katalon Studio to create sample Web UI tests</li> <li>• How to use three modes to create test scripts</li> </ul>
7	Test Suite	<ul style="list-style-type: none"> <li>• What is a test suite?</li> <li>• How to create a test suite</li> <li>• Test suite features and execution</li> </ul>
8	Test Suite Collections	<ul style="list-style-type: none"> <li>• What is a test suite collection?</li> <li>• How to create a test suite collection</li> <li>• Test suite collection features and execution</li> </ul>
9	Logs and Reports	<ul style="list-style-type: none"> <li>• Different types of reports</li> <li>• Test case logs</li> <li>• Test suite report</li> <li>• Test suite collection report</li> </ul>
10	How to Send Results via Email	<ul style="list-style-type: none"> <li>• Email configurations</li> <li>• Email templates</li> <li>• Samples and examples</li> </ul>
11	Katalon Analytics	<ul style="list-style-type: none"> <li>• What is Katalon Analytics?</li> <li>• How to use Katalon Analytics</li> </ul>
12	Execution Environments	<ul style="list-style-type: none"> <li>• What is an environment (profile) in Katalon Studio</li> <li>• How to create environments (profiles)</li> <li>• Practical example of an execution environment</li> </ul>
13	Katalon Recorder	<ul style="list-style-type: none"> <li>• What is Katalon Recorder?</li> <li>• How to use Katalon Recorder</li> <li>• Practical example</li> </ul>
14	Record and Spy on Existing Browser	<ul style="list-style-type: none"> <li>• How to continue recording in an existing test case</li> <li>• Practical example</li> </ul>
15	Work with Web Objects	<ul style="list-style-type: none"> <li>• Best practices for Web objects identifications</li> <li>• Object locators and strategies</li> </ul>

16	Headless Browser	<ul style="list-style-type: none"><li>• What is a headless browser?</li><li>• How to run tests in headless mode</li></ul>
17	Command-line Runs	<ul style="list-style-type: none"><li>• What is command-line or console-mode execution?</li><li>• How to generate execution command</li><li>• How to execute tests from command line</li></ul>
18	How to Refer and Reuse Test Cases	<ul style="list-style-type: none"><li>• How to call a test case from another test case</li><li>• Practical example</li></ul>
19	Get Data from External Sources	<ul style="list-style-type: none"><li>• How to get data from Excel/CSV files</li><li>• How to refer values</li><li>• How to iterate data sources</li></ul>
20	Checkpoints	<ul style="list-style-type: none"><li>• What are checkpoints?</li><li>• How to create and run checkpoints</li></ul>
21	Katalon Plugins	<ul style="list-style-type: none"><li>• What are Katalon Store and Katalon plugins?</li><li>• Demo on how to use Katalon plugins</li></ul>
22	Debugging and Troubleshooting	<ul style="list-style-type: none"><li>• How to debug tests</li><li>• Troubleshooting tips</li></ul>
23	Failure Handling	<ul style="list-style-type: none"><li>• How to do failure handling in Katalon Studio</li><li>• Default failure handling</li><li>• Stepwise failure handling</li></ul>
	Discussion	<ul style="list-style-type: none"><li>• Q&amp;A</li><li>• Discussion</li><li>• Feedback</li></ul>
	Useful Resources	<ul style="list-style-type: none"><li>• Link and references</li></ul>

## KATALON ADVANCED TRAINING

- **Course Description:** This course provides more in-depth training for learners to perform automation testing for Web UI, API/Web services and mobile using Katalon Studio. You will be trained with step-by-step instructions to set up automation projects and integrate with tools such as Git and Jenkins from scratch. This training also includes tips and tricks to handle specific test scenarios in testing projects and integration configurations.
  
- **What participants will learn**
  - API Web services testing
  - Mobile automated testing
  - Integration with Git
  - Integration with Jenkins CI
  - Katalon plugins
  - Debugging and troubleshooting
  - Sample projects

COURSE AGENDA		
1	Introduction and Getting Started	<ul style="list-style-type: none"><li>• Overview of Katalon Studio, software prerequisites, features, GUI, setting, and preferences</li><li>• Overview of essential definitions and features: test suite, test suite collection, logs, types of reports, environments (profiles), headless browsers, command-line runs, record and spy, checkpoints, and so on.</li><li>• How to perform fundamental tasks: create environments, send test results via email, run tests in headless mode, locate Web objects, refer and reuse test cases, get data from external sources, handle test failure, debug and troubleshoot.</li></ul>

2	Create Automation Tests	<ul style="list-style-type: none"> <li>• Step-by-step guide to create automation tests in Katalon Studio</li> <li>• How to create tests in three modes: Record, Manual, and Script</li> </ul>
3	Katalon Analytics and Katalon Recorder	<ul style="list-style-type: none"> <li>• What are Katalon Analytics and Katalon Recorder?</li> <li>• How to use these tools for automation</li> </ul>
4	Custom Keywords	<ul style="list-style-type: none"> <li>• What are custom keywords?</li> <li>• How to create custom keywords</li> </ul>
5	Videos and Screenshots	<ul style="list-style-type: none"> <li>• How to capture test failure screenshots</li> <li>• How to record execution video</li> </ul>
6	How to Use Variables	<ul style="list-style-type: none"> <li>• Private variables</li> <li>• Local variables</li> <li>• Global variables</li> </ul>
7	Integration with Git (VCS)	<ul style="list-style-type: none"> <li>• How to integrate with Git version control system</li> <li>• How to clone, pull, commit, and push changes</li> <li>• How to use Git commands for team collaboration</li> </ul>
8	Integration with Jenkins (CI)	<ul style="list-style-type: none"> <li>• What is CI (Continuous Integration)?</li> <li>• How to run tests from Jenkins CI</li> <li>• Examples and best practices</li> </ul>
9	Jenkins + Git	<ul style="list-style-type: none"> <li>• How to integrate Jenkins with Git for CI/CD</li> </ul>
10	Sample Web application testing project	<ul style="list-style-type: none"> <li>• Sample project to set up Web browser automation</li> <li>• Demo on test creation, test execution, and reporting</li> </ul>
11	Listeners	<ul style="list-style-type: none"> <li>• What is a test listener?</li> <li>• How to create setup and teardown for test cases</li> </ul>
12	Setup and Teardown	<ul style="list-style-type: none"> <li>• What are setup and teardown?</li> <li>• How to use setup and teardown for test suites</li> </ul>
13	API Testing	<ul style="list-style-type: none"> <li>• How to use Katalon Studio for API testing</li> <li>• API testing basics</li> </ul>

		<ul style="list-style-type: none"> <li>• API testing features</li> <li>• How to create and run API tests</li> </ul>
14	SOAP Web Services Testing with Katalon Studio	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Practical example to test SOAP Web services in Katalon Studio</li> <li>• Step-by-step guide</li> <li>• Summary and recap</li> </ul>
15	REST Web Services Testing with Katalon Studio	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Practical example to test REST web services in Katalon Studio</li> <li>• Step-by-step guide</li> <li>• Summary and recap</li> </ul>
16	API Validations	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• How to validate response</li> <li>• How to get value from nodes</li> <li>• How to create a complete API validation test</li> <li>• Summary and Recap</li> </ul>
17	Handling HTTP methods GET, POST, PUT, DELETE	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• How to handle a GET API request in Katalon Studio</li> <li>• How to handle a POST API request in Katalon Studio</li> <li>• How to handle a PUT API request in Katalon Studio</li> <li>• How to handle a DELETE API request in Katalon Studio</li> <li>• Summary and recap</li> </ul>
18	Response Validation	<ul style="list-style-type: none"> <li>• How to find values in XML and JSON responses</li> </ul>
19	API Chaining	<ul style="list-style-type: none"> <li>• Extract data from XML responses and chaining requests</li> <li>• Extract data from JSON responses and chaining requests</li> </ul>
20	API Tests in Test Suite and Test Suite Collection	<ul style="list-style-type: none"> <li>• How to run API tests in a test suite and test suite collection</li> </ul>
21	Results and Reporting	<ul style="list-style-type: none"> <li>• API testing report</li> <li>• Test suite report</li> <li>• Test suite collection report</li> </ul>

		<ul style="list-style-type: none"> <li>• Katalon Analytics</li> </ul>
22	Running from Commandline	<ul style="list-style-type: none"> <li>• How to run API tests in command-line mode</li> </ul>
23	Running from Jenkins	<ul style="list-style-type: none"> <li>• How to run API tests in Jenkins CI</li> </ul>
24	Mobile Testing	<ul style="list-style-type: none"> <li>• How to use Katalon Studio for mobile testing</li> <li>• Mobile testing features</li> <li>• Set up and create mobile tests</li> <li>• Execute and report</li> </ul>
25	BDD in Katalon Studio	<ul style="list-style-type: none"> <li>• How to implement BDD in Katalon Studio</li> <li>• Cucumber support</li> <li>• Steps to start a BDD testing project</li> <li>• Example</li> </ul>
26	Katalon Plugins	<ul style="list-style-type: none"> <li>• What are Katalon Store and Katalon plugins?</li> <li>• Demo on how to use Katalon plugins</li> </ul>
27	Tips and Tricks	<ul style="list-style-type: none"> <li>• Useful tips on working with Katalon Studio</li> <li>• Useful tips for general automation testing</li> </ul>
28	Sample Projects	<ul style="list-style-type: none"> <li>• A brief discussion on available sample projects and use</li> </ul>
	Discussion	<ul style="list-style-type: none"> <li>• Q&amp;A</li> <li>• Discussion</li> <li>• Feedback</li> </ul>
	Useful resources	<ul style="list-style-type: none"> <li>• Links and references</li> </ul>

## Lab Requirements

<b>Operating System</b>	Windows 7 or higher or macOS 10.11 or higher
<b>CPU</b>	2 GHz or faster 32-bit (x86) or 64-bit (x64) processor
<b>Memory</b>	8 GB RAM (32-bit) or 8 GB RAM (64-bit)
<b>Hard Drive</b>	5 GB available hard disk space
<b>Others</b>	Trainees should permission to download and setup software Trainees should be able to update environment variables on system Good network bandwidth
	Trainees should be able to download resources from: <a href="https://www.katalon.com/download/">https://www.katalon.com/download/</a> <a href="https://github.com/katalon-studio/katalon-studio/releases">https://github.com/katalon-studio/katalon-studio/releases</a>
	Trainees should have uninterrupted access to following sites: <a href="https://www.katalon.com/">https://www.katalon.com/</a> <a href="https://analytics.katalon.com/">https://analytics.katalon.com/</a> <a href="https://katalon-demo-cura.herokuapp.com/">https://katalon-demo-cura.herokuapp.com/</a>

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