

# NEXT IT CAREER

## TOSCA AUTOMATION



# **TOSCA AUTOMATION COURSE CONTENT**

<b>Automation Testing Overview</b>	<ul style="list-style-type: none"><li>• Introduction to Software Automation</li><li>• Why Automation is necessary</li><li>• What is Manual &amp; Automation Testing</li><li>• What is a Defect, Verification &amp; Validation</li><li>• Why software has defects</li><li>• Tester Roles</li></ul>
<b>Tosca Components</b>	<ul style="list-style-type: none"><li>• Tosca Commander</li><li>• Tosca Executor</li><li>• Tosca CI</li><li>• Tosca Wizard</li><li>• Tosca Architecture</li></ul>
<b>Tosca Commander</b>	<ul style="list-style-type: none"><li>• Tosca Commander</li><li>• Why It is required</li><li>• Phases of Tosca Commander</li></ul>
<b>Components/Phases/towers of Tosca commander</b>	<ul style="list-style-type: none"><li>• Modules</li><li>• Test cases</li><li>• Execution</li><li>• Test case design</li><li>• Test planning</li><li>• Requirements</li><li>• Configurations</li><li>• Data Integrity testing</li></ul>
	<ul style="list-style-type: none"><li>• Modules<ul style="list-style-type: none"><li>✓ Why It is required</li><li>✓ Importance of Modules</li></ul></li><li>• Test case</li></ul>

<b>Most Frequently used components of Tosca commander</b>	<ul style="list-style-type: none"> <li>✓ Test Development</li> <li>✓ Test Execution</li> <li>• Test case design <ul style="list-style-type: none"> <li>✓ Design Framework</li> <li>✓ Modular Framework</li> <li>✓ Manual &amp; Automation</li> </ul> </li> <li>• Execution <ul style="list-style-type: none"> <li>✓ Execute Test cases</li> </ul> </li> </ul>
<b>Supported Application categories</b>	<ul style="list-style-type: none"> <li>• Web &amp; Desktop</li> <li>• API</li> <li>• Web Services</li> <li>• DATA Bases</li> <li>• SAP</li> <li>• Salesforce</li> <li>• Mobile</li> <li>• Pdf</li> <li>• Host</li> <li>• .....</li> </ul>
<b>How to scan Application</b>	<ul style="list-style-type: none"> <li>• XSCAN</li> <li>• Steer Controls Uniquely</li> </ul>
<b>Types of Repositories</b>	<ul style="list-style-type: none"> <li>• Single Repo</li> <li>• Shared Repo</li> </ul>
<b>Identification Mechanism</b>	<ul style="list-style-type: none"> <li>• Identify by own properties</li> <li>• Identify by Anchor</li> <li>• Identify by Image</li> <li>• Identify by Index</li> <li>• Xpath</li> </ul>
<b>Types of Engines</b>	<ul style="list-style-type: none"> <li>• Tbox</li> <li>• Classic</li> </ul>
<b>How to Identify Engines</b>	<ul style="list-style-type: none"> <li>• Tbox Engine</li> <li>• Classic Engine</li> <li>• How to Recognition</li> </ul>

<b>Explanation of standard Module</b>	<ul style="list-style-type: none"> <li>• Automation Tools</li> <li>• Tbox X engines</li> </ul>
<b>Example</b>	<ul style="list-style-type: none"> <li>• Real time above mentioned concepts</li> <li>• Interview Questions</li> </ul>
<b>Dynamic Expression</b>	<ul style="list-style-type: none"> <li>• Date</li> <li>• Time</li> <li>• Random Number</li> <li>• Random Text</li> <li>• Random Regular Expressions</li> <li>• Month</li> <li>• Day</li> </ul>
<b>Synchronization</b>	<ul style="list-style-type: none"> <li>• Static Wait</li> <li>• Dynamic Wait</li> </ul>
<b>Basic Window Operations</b>	<ul style="list-style-type: none"> <li>• Minimize &amp; Maximize Browsers</li> <li>• Take Evidence</li> <li>• Sendkeys</li> <li>• Dialog</li> <li>• Save As</li> </ul>
<b>Buffer Operation</b>	<ul style="list-style-type: none"> <li>• Buffers</li> <li>• Partial buffers</li> <li>• Dynamic buffers</li> </ul>
<b>Reusable Test Step Block</b>	<ul style="list-style-type: none"> <li>• Reusable Test step block</li> <li>• Library</li> <li>• Business parameter</li> </ul>
<b>Browsing Operations</b>	<ul style="list-style-type: none"> <li>• How to launch browser</li> <li>• Different Approaches</li> <li>• How to launch private browsers</li> </ul>

<b>Test Configuration Parameter</b>	<ul style="list-style-type: none"> <li>• What is TCP</li> <li>• Where we need to declare this parameter</li> <li>• What is the use of TCP</li> <li>• Difference between TCP and Business parameter</li> </ul>
<b>Web Tables</b>	<ul style="list-style-type: none"> <li>• How to handle Web tables</li> <li>• Implementations of Web Tosca</li> <li>• Scanning &amp; Development</li> <li>• Real time Example</li> </ul>
<b>Excel Operation</b>	<ul style="list-style-type: none"> <li>• Excel Operations</li> <li>• Read and write operations</li> <li>• Example</li> </ul>
<b>Test Case Design</b>	<ul style="list-style-type: none"> <li>• What is TCD</li> <li>• How to create Attribute &amp; Instances</li> <li>• Manual and Automatic approach</li> <li>• Excel Data design</li> <li>• Framework</li> </ul>
<b>TC Shell operation</b>	<ul style="list-style-type: none"> <li>• TC Shell Operations</li> <li>• Create workspace</li> <li>• Drag and drop activities</li> <li>• Login to applications</li> <li>• Execution</li> <li>• How to take reports in Tosca</li> </ul>
<b>Conditions</b>	<ul style="list-style-type: none"> <li>• If Condition and Else</li> <li>• While and Do</li> </ul>
	<ul style="list-style-type: none"> <li>• What is recovery scenario</li> <li>• What is Clean up scenario</li> </ul>

<b>Recovery Scenario</b>	<ul style="list-style-type: none"> <li>• Where we need to declare</li> <li>• Global settings</li> </ul>
<b>Click Operations</b>	<ul style="list-style-type: none"> <li>• Click</li> <li>• Percentile</li> <li>• Pixel method</li> <li>• JUMP</li> <li>• Horizontal First</li> <li>• Vertical First</li> </ul>
<b>Continues Integration CI/CD</b>	<ul style="list-style-type: none"> <li>• Overview of Integration</li> <li>• Different approaches</li> <li>• Why it is required</li> <li>• Test Mandate</li> <li>• Test Event</li> </ul>
<b>Data Base testing</b>	<ul style="list-style-type: none"> <li>• DB Connectivity</li> <li>• DB Example</li> <li>• DB Testing</li> </ul>
<b>Recording</b>	<ul style="list-style-type: none"> <li>• Manual</li> <li>• Automation</li> <li>• Automation with Test Data</li> </ul>
<b>SAP</b>	<ul style="list-style-type: none"> <li>• Sap Introduction</li> <li>• Basics of SAP</li> </ul>
<b>Introduction to SAP</b>	<ul style="list-style-type: none"> <li>• SAP Modules o SAP Testing Tools</li> </ul>
<b>SAP Automation with Tosca Set up SAP Environment</b>	<ul style="list-style-type: none"> <li>• Set up SAP Logon pad installation</li> <li>• Set up SAP IDES System</li> </ul>
<b>Scan SAP</b>	<ul style="list-style-type: none"> <li>• SAP Real time Scan Modules in SD Environments</li> </ul>
	<ul style="list-style-type: none"> <li>• SAP Login</li> <li>• SAP Logon</li> </ul>



<b>SAP Standard Modules</b>	<ul style="list-style-type: none"> <li>• SAP Menu</li> <li>• SAP Multiple Logon License Warning</li> <li>• SAP Status bar</li> <li>• SAP Sub Toolbar</li> <li>• SAP Toolbar</li> <li>• SAP Tree View</li> <li>• SAP Emulated Tree</li> <li>• SAP Emulated Table Tree</li> <li>• SAP Test case preparation and Execution</li> </ul>
<b>SAP Live Project : SD Module End To End Testing</b>	<ul style="list-style-type: none"> <li>• VA01- Generate and Verify Sales Order</li> <li>• VL01N-Create Outbound Delivery</li> <li>• LT03-Create Transfer Order</li> <li>• VL02N-Change Outbound Delivery</li> <li>• VF01- Create Billing Document</li> <li>• VF03-Display Billing Document &amp; Perform a Baseline Comparison</li> </ul>
<b>API Testing Introduction</b>	<ul style="list-style-type: none"> <li>• Overview of Tosca API</li> <li>• Web Services</li> </ul>
<b>Types of APIs</b>	<ul style="list-style-type: none"> <li>• Web Services o Rest</li> <li>• SOAP</li> </ul>

	<ul style="list-style-type: none"> <li>• XML, JSON</li> <li>• HTTP Status Codes</li> <li>• Request /Response</li> </ul>
<b>Tosca API Scan Feature</b>	<ul style="list-style-type: none"> <li>• Record APIs</li> <li>• File</li> <li>• URL</li> </ul>
<b>Using API scan &amp; Tosca for API tests</b>	<ul style="list-style-type: none"> <li>• Tosca API Scan o API Scan Result.</li> <li>• Tosca Export o API Modules Assigning the Parameters</li> <li>• API Test Cases Execute API Test Case</li> </ul>
<b>Using Authentication API scan &amp; Tosca for API tests</b>	<ul style="list-style-type: none"> <li>• Tosca API Scan o API Scan Results</li> <li>• Get Bearer Token</li> <li>• Tosca Export</li> <li>• API Modules Assigning the Parameters</li> <li>• API Test Cases Execute API Test Case</li> </ul>
<b>Using Record API scan &amp; Tosca for API tests</b>	<ul style="list-style-type: none"> <li>• Tosca API Scan</li> <li>• API Scan Results</li> <li>• Tosca Export</li> <li>• API Modules Assigning the Parameters</li> <li>• API Test Cases</li> <li>• Execute API Test Case</li> </ul>
<b>File Scanning technique</b>	<ul style="list-style-type: none"> <li>• XML Modules Scan</li> <li>• XML Modules</li> <li>• XML Test Cases</li> </ul>



## **Certificate Guidance**

- **Automation Specialist level 1**
- **Automation Specialist level 2**
- **SAP Testing Specialist Level 1**

## **KEY POINTS:**

- ❖ Project Guidance
- ❖ Project Level training Covered Basic and Advance Concepts
- ❖ Resume Preparation
- ❖ Interview Questions
- ❖ Career Guidance

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