



Protractor Training Curriculum

(End to End testing framework for AngularJS Apps)

STRUCTURE



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- Hands-On Live Projects
- Simulation Test Papers
- Industry Cases Studies
- 61,640+ Satisfied Learners
- 140+ Training Courses
- 100% Certification Passing Rate
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- **Session Recordings** - Original Class Room Voice & Video Recording
- **Training Material** - Soft Copy Handbooks
- **Assignments** | Multiple Hands-on Exercises
- **Test Papers** - We provide **Practice Test** as part of our course to help you prepare for the actual certification exam.
- **Live Case Studies**
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- **Key focus on Hands-on exercises and Project work.** You will work on real time industry-oriented projects.
- Faculty with more than **10+ Years of Experience** in the Industry.
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- **How I unlock my Croma Campus Certificate:** Attend Complete Batch & Submit at least One Completed Project.
- **Interview Q&A**

Protractor Training Description:

Protractor is an end-to-end testing framework specially designed to perform automation testing on AngularJS based web applications. Protractor API works as a wrapper over the most powerful Selenium WebDriver API and is built on top of WebDriverJS that uses native events and browser specific drivers to interact with web-based application as a normal user would do.

There's a massive increase in locator strategies in Protractor which also allows you to test AngularJS specific elements including the existing locator that we get from WebDriver API without configuring or putting any extra effort. Waits and Syncs are handled in a more effective manner, so we need to worry about sync issues as well.

Protractor is one of the end-to-end testing framework in AngularJS.

Additional Locator Strategies:

- By Binding
- By Repeater
- By Textarea
- By Model
- WebElement All
- WaitForAngular
- WebElement Evaluate, etc.

Training Module Structure:

- Protractor Introduction
- JavaScript Basics
- Protractor Basics
- Locators
- Promises
- Jasmine
- Handling Non-Angular elements
- Advance Protractor Topics
- E2E Framework

Module 1: Protractor Introduction

- Introduction to Protractor course
- Installation Procedure
- Pre-requisites
- Installing JDK and Node.JS
- Installing Protractor on Windows
- Installing Visual Studio code editor
- Protractor Snippets for VS CODE

Module 2: Javascript Basics

- Variables
- Operators
 - Arithmetic Operators
 - Equality Operators
 - Comparison and Logical operator
- If Else
- For Loop
- While and Do While loop
- Break, Continue and Label
- Var, Let and Const
- Functions
- Arrays
- Objects and accessing in another JS file

Module 3: Protractor Basics

- Understanding the Conf.js file
- Understanding Describe and It blocks and writing test cases
- Handling Dropdown list
- Adding validations using Jasmine Expect
- Autosuggestions

Module 4: Locators

- About AngularJS Locators
- By Model, By ClassName, By ButtonText
- By Binding, By ID
- By Repeater

Module 5: Promises

- How Protractor handle promises
- Practical implementation of promises
- Await/Async
- Jasmine Basics

Module 6: Jasmine

- Introduction to Jasmine and basic features
- BeforeEach and AfterEach
- Expect toBe and not toBe
- Expect toEqual, toMatch and not toEqual
- Creating Test Suites and running selective / all test cases

Module 7: Handling Non-Angular elements

- Automating a Login window

- Handling Alerts, iframes and popups
- Handling Tabs and pop-ups
- Handling IFrames
- Handling Alerts

Module 8: Advance Protractor Topics

- Usage of Package.json file
- Data Driven Testing
- Reading data and locators through JSON files
- Parameterization using Jasmine Data Providers
- E2E Testing AngularJS Application

Module 9: E2E Framework

- Introduction to Page Object Model
- Creating Architecture and Adding business pages
- Adding More Business Page and Test Cases
- Adding the Page Object Model design pattern
- Adding common Json file for Locators and TestData