

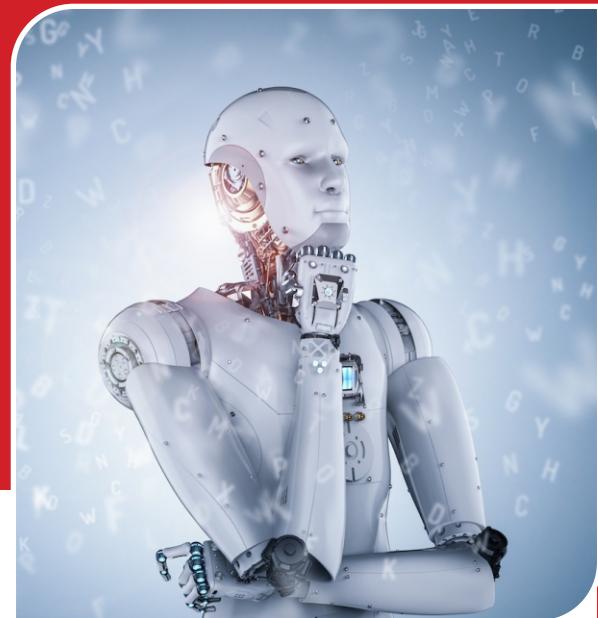


# Most Advanced Software Testing Course

# About Us

6000+ Professionals Trained

8+Years, 200+Batches



**M**adrid Software Training is a Delhi based training center providing numerous courses to students to tune up their skills in accordance to demand of market. The institute was established in May 2011 by Ex Cognizant Employees. Till now, we have successfully trained over 6000+ IT professionals in our training center. The training helps professionals to mould their practical and soft skills required to succeed in demanding professions.

**T**he courses imparted to the students are Business Analytics, Data Science with R and Python, Data Analytics with R and Python, Big Data Hadoop, Machine Learning, Artificial Intelligence, Digital Marketing, Software Testing, Salesforce, Amazon Web Services ( AWS) in the institute. IT industry is growing like never before across the globe. The demand for IT professionals have increased significantly in India with coming of top MNC and growth of IT related industries. Lots of career opportunities are coming in the market for job seeker. But, to grab the job opportunities in market candidates require advanced practical skills get from training in special course.

**J**ob oriented courses deliver necessary practical skills and knowledge to the students to succeed as a professional. The module of courses is created by industry experts according to global standard. The courses are designed to deliver latest knowledge and skills to the students. Special emphasis is given to practical skills of students along with theoretical knowledge. The students get essential skills by working on live project in their chosen field. We assign dedicated project to the students according to their career to meet challenges faced in the real industry after completion of course. This gives a clear picture to students about ways of working in real project in industry quickly. It is a preparation of students for future professional life in industry. This sets our organization apart from rest of the institutes who offer negligible practical training for job oriented courses to students.

**O**ur aim is not just to train students but to deliver skills to students to create edge over competitors in market. This is possible by training the students in latest equipment and technology in the institute. The course contents are up-to-date and well supported by advanced training methodologies. Even soft skill is imparted to students to develop professional traits required in succeeding in career. Work ethics, communication skills, and others professional's etiquette are taught to the students with regular exercise in institute. The skills and traits acquired during training in the institute helps students to surge ahead in their career immediately.

# **Amit Kataria**

## **Founder-Madrid Software Trainings**



**Amit Kataria** is the founder of Madrid Software Training Solutions.

He started the company with the vision of providing skilful manpower in IT. He has done his graduation in Electronics and Telecommunication Engineering from the Maharishi Dayanand University, in his career of over 12 years in IT industry, he has worked for hotshots like JP Morgan, Credit Swiss, Cognizant and First Rain. Having analytical bent of mind, he has played a key role in selection of technologies to be added to the company's portfolio.

He is a great visionary and a team builder and is the core of strength for his team. He believes in creating a positive environment for the people around and in developing individuals by giving them freedom of thought, opportunity to work independently and appreciating the results thus accumulated.

His critical thinking, empathetic listening and obsession for uncompromised customer satisfaction and quality of services, have been the ethics of the company.



# LEARNING ROADMAP



4 Months Live Instructor Based Training



Each Topic Covered Practically



Assignment on Each Topic



Capstone Project



Assessment Test



Interview Preparation

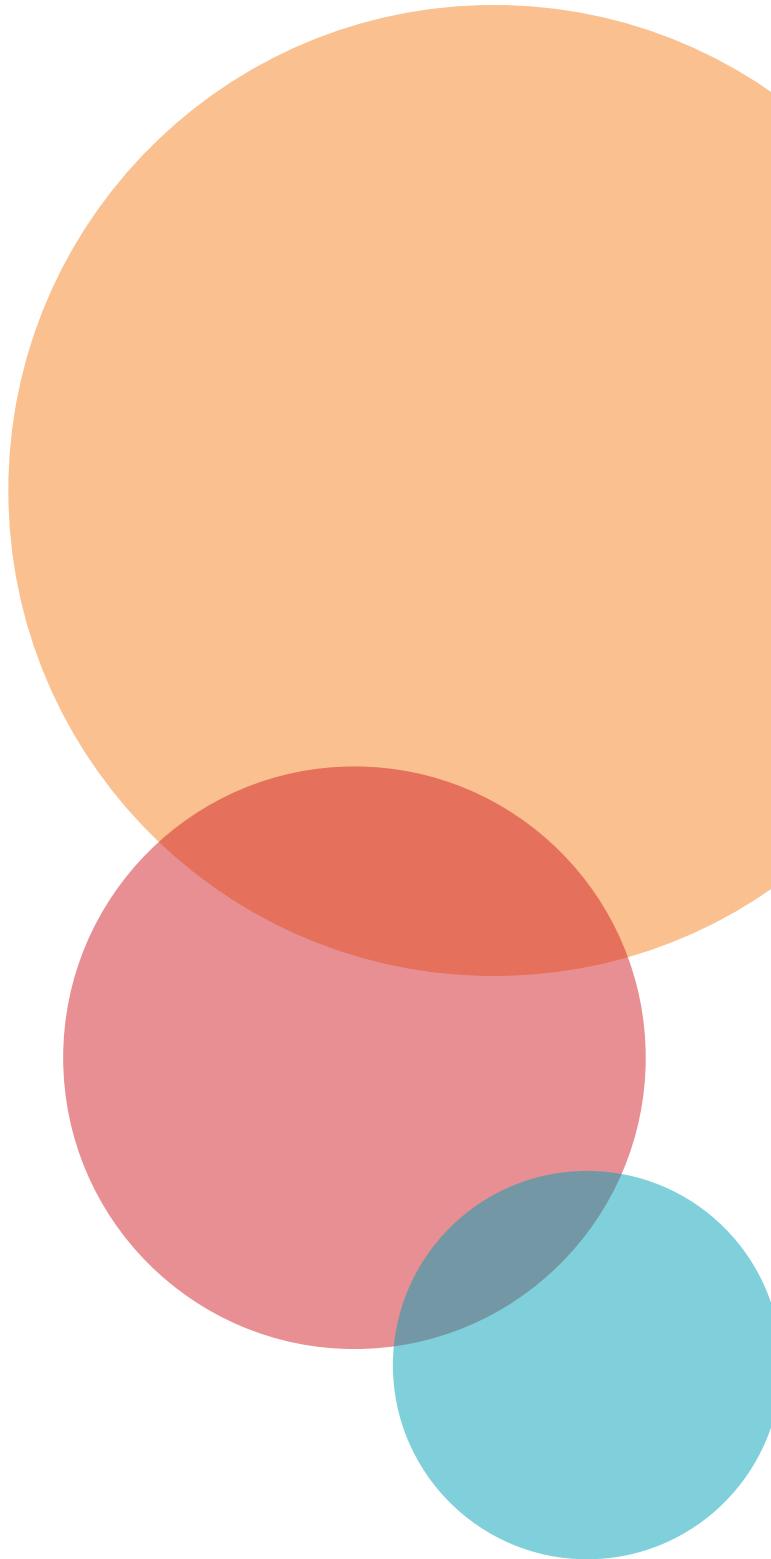


Resume Building & Placement Support

# Most Advanced Software Testing Course

## Module 1 - Manual Testing

- Fundamentals of Software Testing
- What is Software Testing?
- Why we do Testing?
- Benefits of Testing
- SDLC ( Software Development Life Cycle )
- STLC (Methodologies)
- Various phases of Manual Testing
- Verification
- Validation
- Functional testing
- Non-Functional Testing
- Other Types of testing
- System testing
- Black box Testing
- White box Testing
- Regression Testing
- Test management
- Test Plan
- Test cases
- Risk analysis
- Defect life cycle
- Traceability Matrix
- Configuration management
- Boundary Value Analysis
- Web Based and Database Testing
- Why Automation



## Module 2 - SQL Queries & Unix

- SQL Introduction
- SQL Queries
- Basics of Unix

## Automation Concepts

- What is Test Automation
- Why Test Automation
- Benefits and Challenges
- Manual Testing Vs Test Automation
- When to Automate
- What to Automate
- A typical Test Automation Process
- Test Automation tools

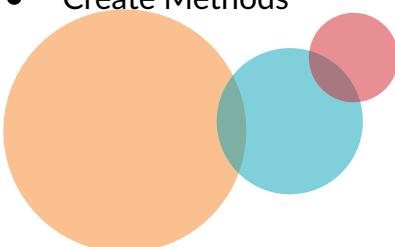


## Selenium Introduction

- What is Selenium
- Advantages of Selenium
- Introduction to IDE, RC, Grid and WebDriver

## Java and Eclipse Installation

- Download and Install Java
- Set Environment Variable or Java Path
- Download and Start Eclipse
- Architecture of Eclipse
- Set up a Project
- Create Packages
- Create Classes
- Create Methods



# Introduction to Core Java

- Java Introduction
- JVM Architecture
- Data Types
- Java Variables
- Java Modifier
- Single and Multiline comments in Java
- Java Operators
- Java Keywords
- Loops
- Constructor
- Static and Non Static Methods
- Static and Non Static Variables
- Local and Global Variables
- Passing Arguments in Methods
- Method Return Type
- Decision Statements
- Encapsulations
- Polymorphism
- Inheritance
- Method Overloading
- Method Overriding
- Exception Handling
- Throw and Throws Keywords
- Final and Finally Keyword
- Collection API ( Array , List and HashMap )
- Arrays
- String Classes, Methods and Customize Methods
- Read Data from Excel File
- Write Data in Excel File
- Read Data from ( notepad ) text file



## Introduction of Selenium IDE

- Selenium IDE Concepts
- Installing Selenium IDE
- Building Test Cases using Selenium IDE
- Adding Selenium IDE Commands
- Difference between assert and verify commands
- IDE menu bar
- Selenium IDE Commands



## Locators of Selenium

- HTML Tags and attributes
- ID, Name, Xpath , CSS selector
- Difference between Absolute and Relative Xpath
- WebElement Commands
- Element inspector in Mozilla, Chrome and IE
- Various Locator strategies
- Selection of Effective Xpath
- Handling Dynamic objects on the page

## WebDriver

- Architecture of WebDriver
- WebDriver Interface
- WebElement Interface
- Launching Firefox / Chrome browser
- How to Open a URL
- Verify Page Title
- Strategy to get the Page Source
- Difference between Close and Quit
- Ways to Navigate Back and Forward
- How to Refresh Page
- Another way of Navigating to Specific Page



## Handling Mouse Operations

- What is Action Class
- What can we do with Action Class
- Mouse Hover and Mouse Movement with Action
- Drag and Drop Action

## Handling Dropdown Operations

- Select Class in Selenium
- Drop Down Handle
- Select multiple values from the List
- Select and Deselect operations by Index, Value and Visible Text

## Multiple Web Elements Operations

- Difference between Find Element and Find Elements
- Enter and Clear Text from Input Field
- How Click Action works differently on different elements
- Managing Input fields, Buttons and Links
- Finding all Links on the Page
- Check dead links on the page
- Extracting more than one object from a page
- Extracting Objects from a specific area of a web page
- Check if element is Present, Displayed, Enabled or Selected



## Working with Multiple Browsers

- Launching Firefox
- Challenges with Firefox Browser
- Launching IE
- Challenges with IE Browser
- IE driver server and path settings
- Launching Chrome
- Chrome server and path settings



## WebDriver Advanced Usage

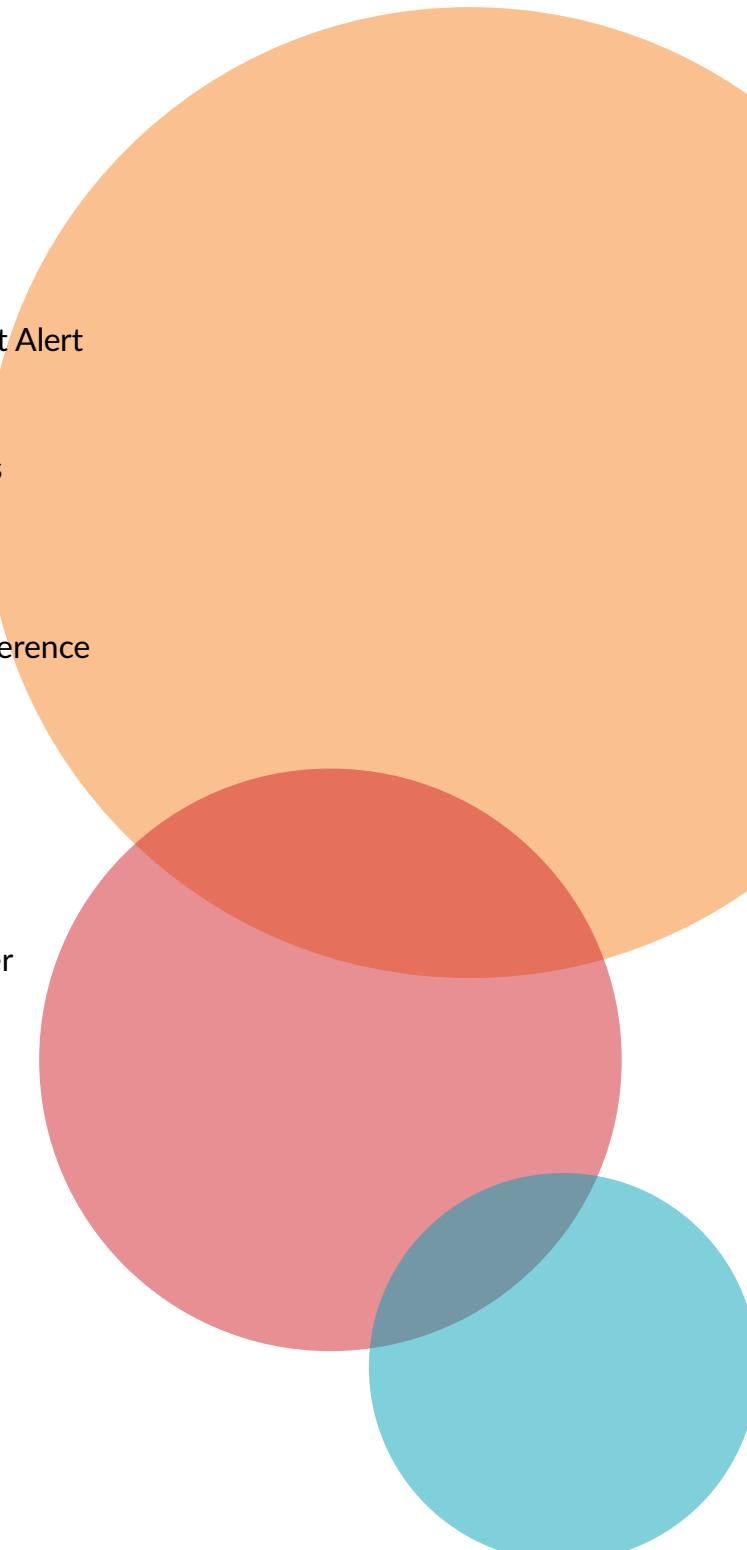
- Implicit and Explicit waits
- How to use Expected conditions with waits
- Page Load timeout and SetScript Timeout property
- Simple use of Thread Sleep
- Concept of Fluent wait in Selenium
- WebDriver Wait and its uses
- Different Wait Until Conditions
- Managing Ajax based Components
- Ways to handle Simple, Confirmation and Prompt Alert
- Concepts of Set interface in Java
- Difference between window Handle and Handles
- Switching and Closing Windows, Tabs & PopUps
- Concept of Window ID
- Extracting window IDs with Selenium Object Reference
- Capture Screenshots in Selenium

## AutoIT

- What is AutoIT and its usage
- Downloading of AutoIT script Editor and Compiler
- Benefits of AutoIT in Selenium
- Upload, Download files using AutoIT

## What is TestNG

- Benefits and Features of TestNG
- How to download TestNG
- Annotations in TestNG
- How to run Test Suite in TestNG
- Benefits of testing .xml
- Grouping of Test Case
- Dependency in TestNG
- Set Priority for Test Case
- Test Case Sequencing in TestNG



- TestNG Reporters
- TestNG Assets
- TestNG Parameters
- Multi Browser Testing in TestNG
- Parallel testing in TestNG
- Use of Data Provider Annotation and Attribute
- Cross Browser Testing
- Data Provider in TestNG using 2D Array
- Data Provider in TestNG using Excel Files
- Generate Reports in TestNG
- Generating the HTML Reports

## Maven Concepts

- Download and Configure Maven
- Set Environment Variable for Maven
- Download Maven as Eclipse Plugin
- Execute Maven Build

## Jenkins Concepts

- Jenkins Installations
- Jenkins Setup
- Create Build and Execute Build for nightly execution
- Send Email Reports based on Build Status

## Frameworks

- What is Automation Frameworks
- Features of Automation Frameworks
- Benefits of Using Automation Frameworks
- Different Types of Automation Frameworks
- What is Data Driven Framework
- What is Modular Driven Framework
- What is Keyword Driven Framework
- What is Hybrid Framework
- Factory Pattern Design
- Page Objects Model
- Create Object Repository



# Course Detail

DURATION : 4 Months

CLASSES : Weekend - Saturday & Sunday, 3hrs a day  
Weekdays - Monday To Thursday, 2hrs a day

COURSE FEE : INR 20,000/-

## Course Features

- Live Classroom Training
- Hands on Practical Training
- Case Studies
- Capstone Projects
- Training From Industry Experts
- Assessment Test
- Resume Preparation
- Interview Preparation
- 100% Placement Support
- Doubt Classes After Course Completion
- Course Completion Certificate





# Trainees From



Cognizant



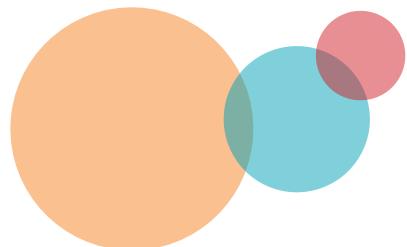
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# Thank You!



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