



**FULL-STACK
QA ENGINEERING
COURSE CURRICULUM**

VIRGINIA'S #1

IT Training Institute with
100% Job Placement &
100% JOB Guarantee
Course

What's special about us:

- ▶ Instructor-led Online Class
- ▶ Learning Management System (LMS)
- ▶ Access to Classroom Videos
- ▶ Unique Course Curriculum Covers End to End Engineering
- ▶ Industry Leading Expert Instructors
- ▶ In-house Internship with Real Company and Projects

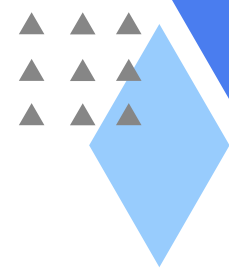
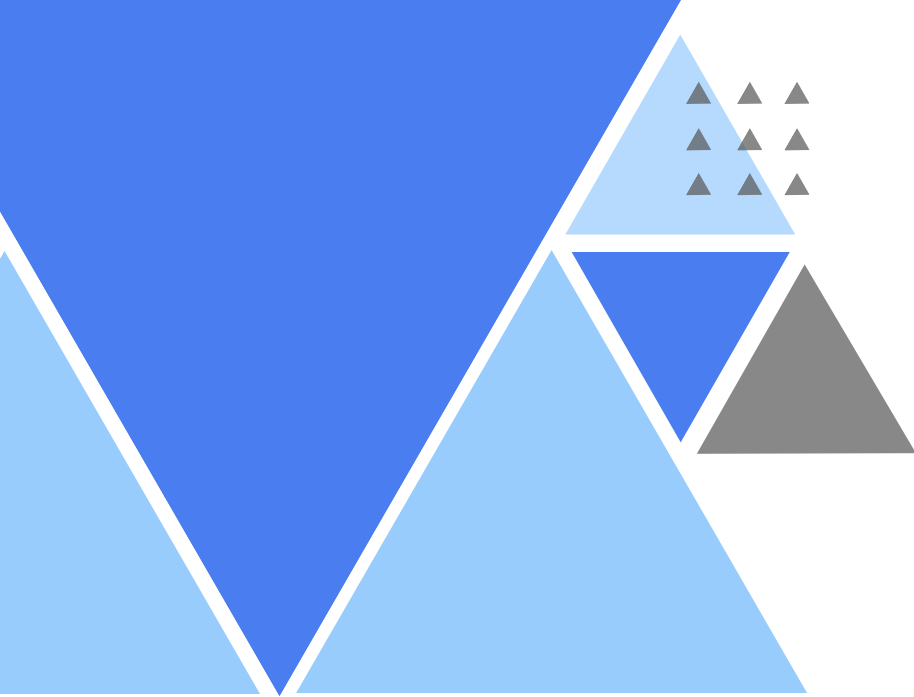


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krishnatraining.com

Unique 6 Step Process Course

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ABOUT KRISHNATRaining.COM

KrishnaTraining Corp is a Virginia-based QA Engineering Solutions corporation, headquarter located in Virginia. We specialize in delivering academic style IT courses physically in our Virginia based campuses and globally through Online platform. We follow a unique six-step process to provide the courses that set us apart from their boot camps in the whole nation.

We have been ranked #1 in QA training within Virginia [dmv] by many mainstream Media

As an academy, we always look forward to having a hands-on, tailored, and industry specified course curriculum, which helps us stand out in a crowd. Our industry experts design the course curriculum with decades of experience in the IT industry. Over a while, QA Engineering has changed a lot. Our experts have gone beyond their expertise to prepare this unique curriculum that will master individuals learning. Indeed, this curriculum will help anyone to become a successful QA Engineer in 04 months.

KrishnaTraining Inc is an authorized employment agency in USA located in Virginia. KrishnaTraining Inc has a partnership with over 100 of the US's mid-large size staffing agencies, including some fortune 500 companies Like Capital One, JP Morgan Chase, IBM, Nationwide Insurance, Bank of America, TCS, Collabera Inc, Sugeti, Dell, HP, and more.

We provide job placement assistance to all our graduates. We have well-trained recruitment staffs who assist our students with the job search process. They also build standout resumes for our students and guide them in the job interview process. We understand that looking for a job in a new field can be very challenging.

At KrishnaTraining Academy, we work hard alongside our students and help achieve a job.



OUR UNIQUE SIX-STEPS PROCESS

#1

Career Counseling and Goal Setting

Students meet one of our experienced career advisors who evaluates the current situation and discuss goals and roadmap. The meeting's intent and purpose are to give personalized attention and plan for a realistic and achievable roadmap. Even after the class starts, career advisors remain available oroboton-demand basis.

#2

Enrollment

We have a simple enrollment process. After the meeting with a career advisor, students sign up for an online-based Student Enrollment Agreement and an Income Share Agreement (ISA) contract. At this stage, students also receive an invoice for the first installments. Once enrolled, students get access to 60+ hours of instructor-led lectures, lab practices, class notes. We also have a Learning Management System (LMS). All the class recordings, notes, and assignments became available in the LMS.

(877) 864-8462

✉ krishnatraining@yahoo.com



#3

Lectures and Labs

All our courses are instructor-led, and follow the exact class schedule. Often the classes are blended with pre-class content sharing and live lectures. Each session is 2/3 hours long, mostly Three days a week.

#4

Interview Preparation

After completing training, we prepare the each student for the interview preparations based on the resume and projects practiced and worked on

#5

Resume Building and Interview Prep Session

Resume is the key to be able to set up an interview. 40% to 60% of highly qualified candidates do not make the interview table due to AI-based automatic resume scanning tools and processes that employers use. Our resume coaches have in-depth knowledge of industry inside. They know how to highlight the skills and achievements employers are looking for in a candidate's resume. During the interview preparation sessions, students meet our interview coaches. They go through a process of technical screening to check individuals' interview strengths. They analyze technical skills, communication skills, confidence levels. Based on that analysis, they provide the necessary guidelines. Students also receive instructions about the current job market, interview manners, differences between client & vendor.

#6

Resume Marketing & Job Placement

Resume marketing and job placement is another area of our; strength. Over the last eight years, we have developed working; relationships with 50 + staffing partners and 30+ clients, including; Capital One, Chase, IBM, Capgemini, Collabera and Tech-System,; Apex System, etc. Once a student is ready to go to the market, we; assign a recruiter who provides guidelines throughout the job-hunting process. To extend the chances of getting hired, we; create Online profiles on Linked In, Dice, Monster, Indeed.com, etc.



COURSE OBJECTIVES

The course is designed for complete QA Engineering Training with manual and automated testing from beginner to advanced level. The student will learn the continuous test automation process with the Cucumber Test Automation Framework with Java and Selenium. This course will provide complete knowledge about the best practice of Agile / Scrum.

INTENDED AUDIENCE

Working BA/QA professionals who would like to gain traction in the automation space. Any non-technical people who want to learn QA testing, Manual, and Automation Testing.

DELIVERY METHOD

This course will be delivered through a mix of:

- Instructor-Led Online Training
- Hands-on Labs/Assignments
- Team Presentation
- Knowledge Checks

DURATION

- 04-05 Months
- 30+ Classes led-online classes Each class around 2-3 hours 60+ hours of
- Extensive Training Lab Sessions &
- Working
- 02 weeks of Internship
- 02 weeks of Interview Preparation
-

PRE-REQUISITES

A laptop (Windows/Mac) with a minimum of 8 GB RAM and 40GB free space with at least a 2.0GHz processor



COURSE CURRICULUM AT A GLANCE

SDLC/STLC

Agile Software
Development

JIRA

Functional,
Integrated and End
to End Software
Testing

SQL/Database
Testing

Cross Browser
Testing with Sauce
labs

Test Automation
Framework
Development

Java+Selenium

TestNG

BDD - Cucumber

GitHub

Jenkins -
Continuous
Integration

DevOps Concept

AWS - EC2

Mobile App Testing
Basic

One one one Interview
preparation

Postman/Soap U

API/Web Service
Testing - I

FULL-STACK QA ENGINEERING

Manual Testing

SOFTWARE TESTING LIFE CYCLE

- Requirement Analysis – Waterfall Model
- Design Analysis – Waterfall Model
- Test Planning
- Test Strategy Creation
- Test Case Writing Using Excel
- Test Scenario Creation

AGILE SOFTWARE DEVELOPMENT MODEL

- Agile
- Scrum
- Kanban
- Roles and Responsibilities
- User Story Writing
- Acceptance Criteria of a User Story
- Agile Framework
- Best Practice of Agile
- Agile Tools

Class

01

SOFTWARE DEVELOPMENT LIFE CYCLE

- Introduction to Computer Science
- Different Types of Software in the Market
- What is Software Quality Assurance/ Testing?
- Why Software Quality Assurance is Important?

Class

02

- Software Development Life Cycle (SDLC)
- Software Testing Life Cycle (STLC)

Class

03

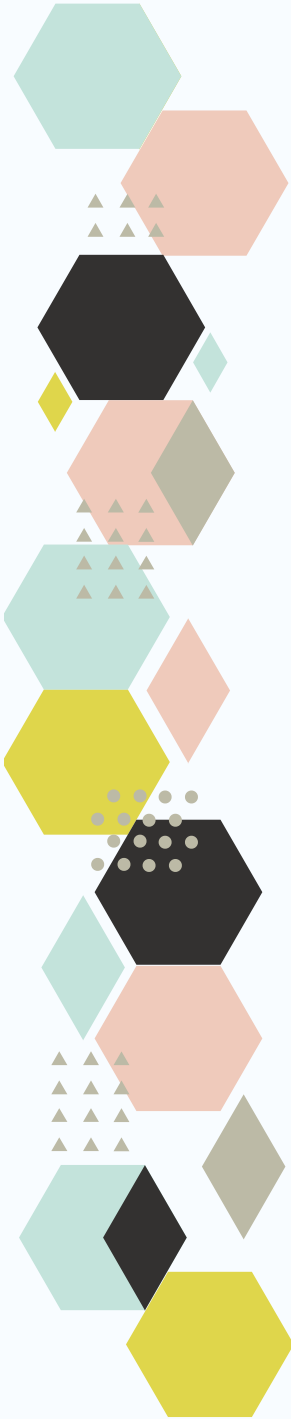
DIFFERENT TYPES OF TESTING PRACTICE

- Testing Types
- Unit Testing
- Smoke Testing
- Functional Testing
- Positive Testing
- Negative Testing
- Test Design Technique – Boundary Value Analysis
- Integration Testing
- End to End Testing
- Regression Testing
- UAT Testing

Class

04

JIRA (Project Management/Defect Tracking Software)



Class 05 USING JIRA FOR TEST CASE WRITING, DEFECT WRITING

- Kanban Board
- User Story Creation
- Acceptance Criteria Writing
- Importing Test Cases from Excel and Other Sources
- Test Creation in JIRA/Zephyr
- Test Set Creation and Test Execution
- Defect Writing
- What is Severity in a Defect
- What is Priority in a Defect
- Assigning a Defect
- Defect Status
- Link Defect to Test Cases – Traceability Matrix

Class 06 BEHAVIORAL DRIVEN DEVELOPMENT (BDD) AND CI/CD

- Various Framework TDD / BDD
- DevOps Concept
- Code Deployment
- CI/CD Concept – Maven/Jenkins / GitHub
- Cross-Browser Testing – Selenium Grid / Sauce Lab



Database and SQL



Class

07

GETTING STARTED WITH DATABASE AND SQL

- What is Database?
- Different Types of Database
- What is a Table?
- What is a Column?
- What is a Row?
- What is a Record?
- Introduction of SQL
- Selecting Records from a Table

Class

08

SQL – INTERMEDIATE

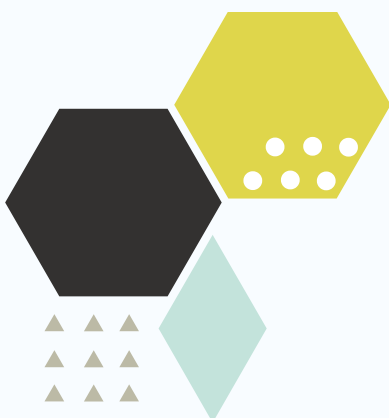
- How to Create a Table
- Insert Records / Data into a Table
- Deleting Data from a Table
- Adding a New Row into a Table
- Deleting a Row from a Table
- Using Order by
- Using Where Condition
- Using And / Or
- Alice, Distinct, Like, Wildcards, In, Between

Class

09

SQL – ADVANCE

- Database Schema
- RDBMS
- Primary Key
- Foreign Key
- Unique Key
- Joining Two Tables
- Left Join and Right Join
- SQL Aggregated Functions
- Group By
- Having



Webservice Testing/API Testing (REST API)

Class

USING JIRA FOR TEST CASE WRITING, DEFECT WRITING

- How Web Applications Work
- What is an API (REST vs SOAP)
- Understanding of HTTP Requests and URL Structure
- Authorization
- Postman

Class

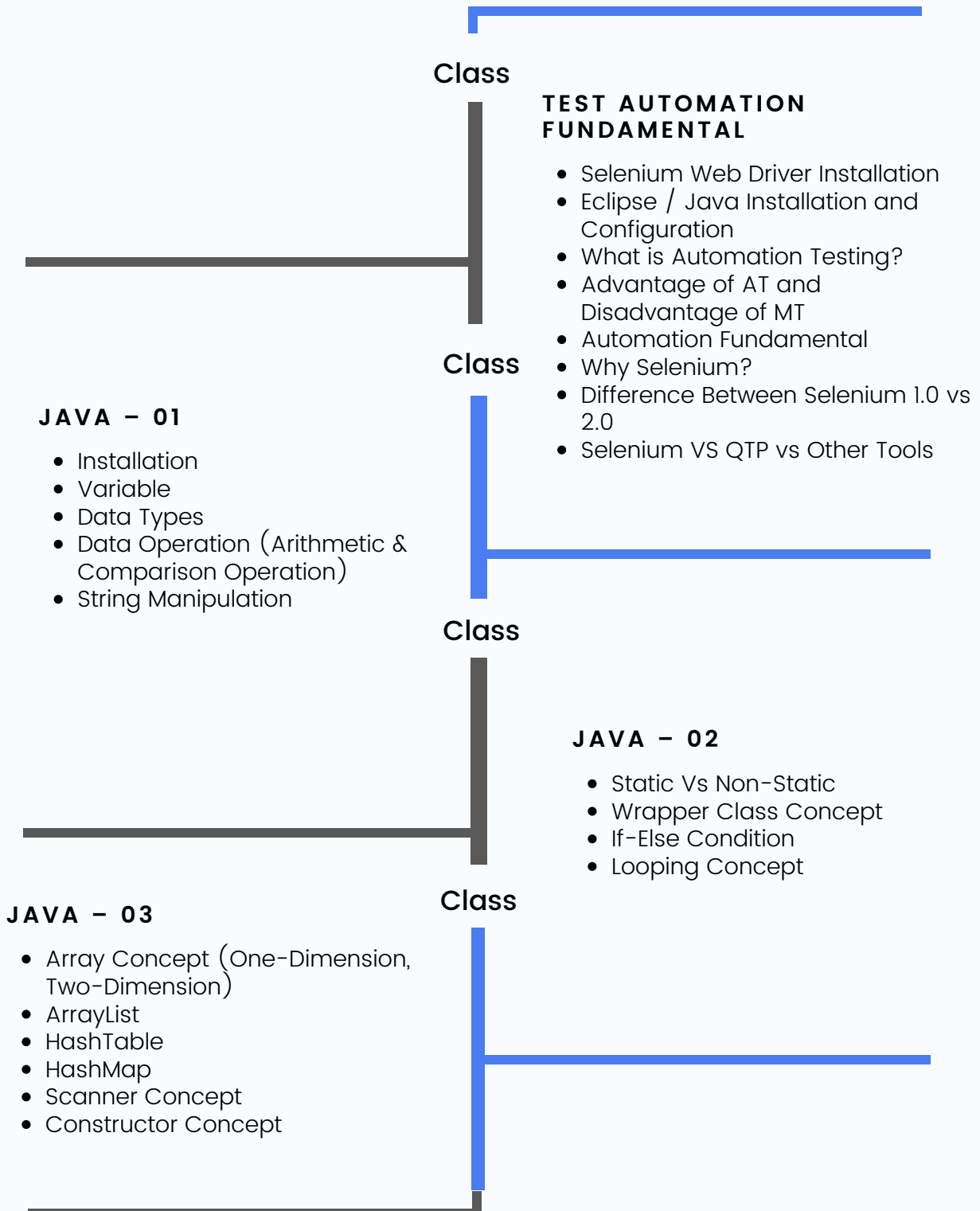
BEHAVIORAL DRIVEN DEVELOPMENT (BDD) AND CI/CD

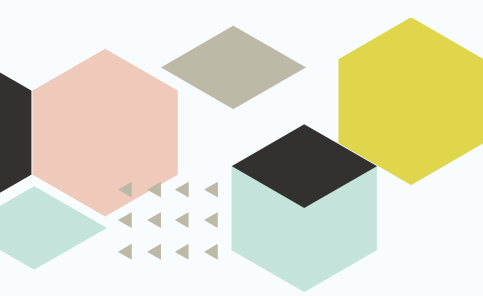
- Crud Functionality
- GET
- POST/PUT
- UPDATE
- DELETE
- Path, Query Parameters
- Status Codes and more
- API Testing & Example





Test Automation Framework with Cucumber and JAVA





Class

JAVA - 04

- OOPS Concept
- Inheritance
- Encapsulation
- Polymorphism
- Method Overloading
- Overriding
- Inheritance

GETTING STARTED WITH SELENIUM

- Downloading Selenium Jar files and Incorporating in the Project
- Invoke Various Browsers and Getting Various Browser Drivers
- Objects Identification (text field, link, button, table) and Selenium Scripting on Application
- Object Locators (Id, Name, ClassName, linkText, PartialLinkText, Xpath, CSS Selector) & DOM
- Explanation of Selenium Methods
- Scripting on Training Application

Class

Class

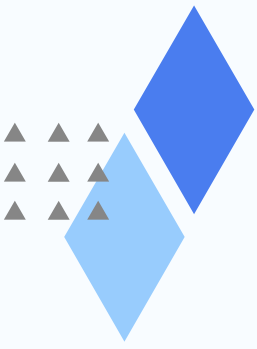
OBJECT LOCATORS IN SELENIUM

- Customization of X-path & CSS Selector
- Mouse and Keyboard Operations
- Dynamic Object Identification – Find Element and Find Elements
- Dropdown Box Value Selection

SYNCHRONIZATION, ALERT HANDLING AND CROSS BROWSER TESTING

- Synchronization – Static Wait, Implicit and Explicit Wait
- Handling Alert Popup
- Various Windows Operation
- Handling iFrame
- Working with Calendars and Various Web Elements
- Cross-Browser Testing – Running with Multiple Browsers

Class



Class

TESTNG FRAMEWORK

- TestNG Framework
- Test Results – Results Report to External File
- TestNG – Assertions
- TestNG – Annotations
- TestNG XML – POM

Class

MAVEN & KEYWORD DRIVEN FRAMEWORK

- Keyword Driven Testing with Excel
- Data Table Import – Excel Using Apache POI Library
- Maven – Build Management Tool
- BDD – Behavioral Driven Development – Part 1

Class

ADVANCE CUCUMBER FRAMEWORK WITH SELENIUM

- Cucumber Introduction
- Feature File Writing
- Step Definition Writing
- Cucumber Tags
- Convert TestNG Scripts into Cucumber Framework
- Assertions

Class

BEHAVIORAL DRIVEN DEVELOPMENT & CODE VERSION CONTROL WITH GITHUB

- BDD – Behavioral Driven Development – Part 2
- Gherkin Scenario Creation
- Code Version Control – Git
- GitHub
- Code Commit to GitHub
- Push, Pull, Marge, Pull Request
- Continues Integration Concept



Class

PAGE OBJECT MODEL (POM)

- Page Object Model
- Scenario Outlines
- Cucumber Data-Driven from Feature File
- Cucumber Runner Class

CONTINUOUS INTEGRATION (CI/CD) WITH JENKINS

- Jenkins
- Continues Integration with Jenkins
- Creating Jobs and Pipeline

Class

Class

MOBILE APP TESTING WITH APPIUM & AWS AND PERFORMANCE TESTING

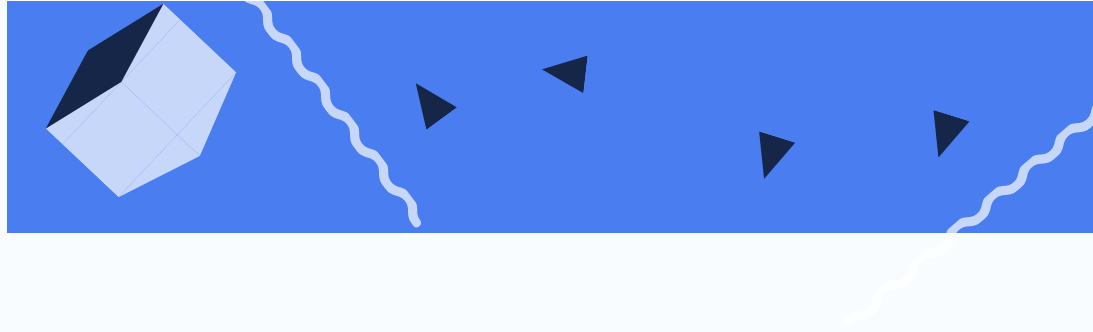
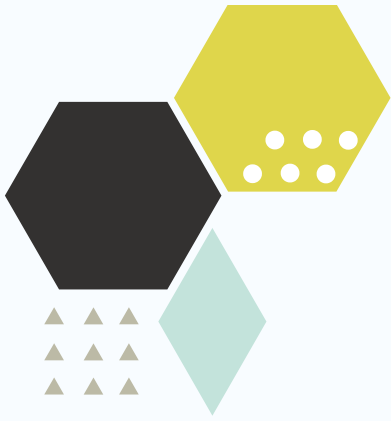
- Mobile Testing (Appium) - Discussion
- Cloud Computing (AWS EC2) - Discussion
- Performance Testing (BlazeMeter/JMeter) - Discussion
- Web Service / API Testing with SOAP UI

SELENIUM GRID OPERATION AND SAUCE LABS

- Framework Concepts – TDD/BDD with Page Object Model (POM)
- Selenium Grid/Sauce Labs

Class







**WE BUILD
PROFESSIONALS**



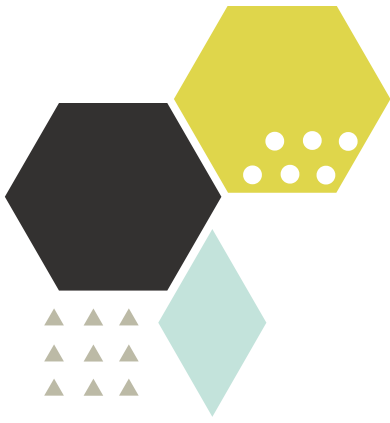
OUR INSTRUCTOR



Krisha Grandhi

CHIEF INSTRUCTOR

Over more than a decade, KRISHNA has been involved with Information Technology Training. He has provided corporate IT training to over 9,000+ IT personnel across the top three large IT consulting companies of the world such as Accenture, Capgemini and IBM. To take his training skills to the next level and spread across the globe Sheikh has established Transfotech Academy, a Quality IT Training Institute in the heart of New York for Newcomers into the field of Information Technology. Sheikh is a visionary Global Corporate Leader who has spent more than a decade serving multiple fortune 500 companies across the globe such as Accenture, Capgemini, Chase, Capital One, Microsoft, IBM etc. Sheikh has also worked for US Government in a number of high-tech projects as Project Leader, including US Department of Homeland Security, USCIS, Executive Office and US Federal Reserve Bank. A large number of students get training from Transfotech Academy and successfully launch their career in US Corporate IT Companies every year.



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