# LiveTech
Since 2004

CELEBRATING 22nd ANNIVERSARY

# API TESTING
## with Postman & Rest-Assured

CERTIFIED ISO 9001:2015 COMPANY

## Best Training and Placements Institute

LiveTech was founded in 2004 by IT industry professionals to impart quality training and carve a niche in the IT training industry. LiveTech has successfully skilled 100000+ professionals in Software Testing and Development Domain. LiveTech is involved in training on Software Courses for over 21+ years. LiveTech is a leader in creating not only skilled professionals but also enhance their Employability through real time project implementation Training in Software Testing and Development. The programs are designed by Industry experts and backed by certifications recognized globally in I.T Solutions.

# API Testing Content

## Module 1: API Introduction:

### API Testing Introduction:

- What is API ?
- Webservice and Microservices
- Diff between API, Webservice and Microservices
- Introduction to Message exchange format
  (XML and JSON)
- What are SOAP and REST protocols ?
- Overview of SOAP Webservices
- Overview of REST Webservices
- Base URL, Header, Body, Request, Response,
  REST Resource
- HTTP Methods (GET, POST, PUT,
  PATCH, DELETE)
- HTTP Response codes (2xx, 3xx, 4xx, 5xx)

- Testing of API using various tools
  (WebClient, Postman,
   SoapUI, Swagger,
   JMeter & Rest Assured)
- How to begin with API Testing &
  Webservices testing
- Webservice mapping documents
- Webservice testcases and assertions
- Webservice mocking
- Fine and Coarse-grained services
- Webservices Authentications
- Webservices Authorizations
- Throttling of webservices

## Module 2 : Manual API testing using Postman

- Installation of Postman
- Understanding Postman collections,
- Postman creating,
- Postman importing and
- Postman exporting
- GET, POST requests
- PUT and DELETE requests
- Introduction to Postman tool
- Understanding endpoints

- Using Postman to fire CRUD
  operations
- Different features of Postman
- Shortcomings of Postman
- Automating web services with
  Rest Assured
- Postman integrations (DevOps,
  Jenkins,
  GitHub, etc)

# Module 3: JSON Requests, Validate Response, Logging

## JSON Req,Validate,Logging

- First Rest Assured Program
- Sending GET/POST/PUT/DELETE JSON Requests and printing response
- Including Java docs in eclipse
- Receiving Response
- Understanding Request Specification class
- Setting content-type and headers in request
- Logging request
- Reading J SON from external file and sending in request Response interface
- Logging request and response values
- Setting request body in POST/PUT JSON Requests
- Validate Response class
- Retrieving response status code, content type, headers
- Calculating response time

# Module 4: Diff Approaches for Building Complex JSON Requests

- Logging With Rest Assured
- Different Login Methods
- Logging Request Information based on Test Status
- Different ways to Build Json
- Building Json Request, Json Object and Json Array
- Building JSON Requests from Collections API
- Building JSON Requests in Object Oriented Fashion

# Module 5 : Reading and Extracting Responses

- Extracting data from Response Json
- Validations to be performed before reading response
- Mocking responses
- Reading response values from complex responses
- Reading multiple records from responses
- Reading arrays in maps

# Module 6: Rest-Assured

- Assertions and Validations in REST Assured
- What is Json Schema
- How to perform Schema Validations
- Adding single assertion to tests
- Adding Multiple Assertions To Tests
- Asserting a complete Json Response
- Soft Assertions In Rest-Assured
- What is Ham-crest Library
- Using Assertions from Ham-crest Library

## Filters in Rest-Assured

- Filters in Rest-Assured
- Extracting request specifications using filters
- Extracting response specifications using filters
- Extracting data from Request Json

## Authentications in Rest Assured (Oauth 1.0 and Oauth 2.0)

- Authentications in Rest Assured
- What is OAuth1.0
- What is OAuth2.0

# Module 7: Validations And Authentications

## File Download and Upload

- Validations and Authentication

- Validation on File Download

- Validation on File upload

- Basic Authentication with File Download

- Basic Authentication with File Uploads

  using REST Assured

# Module 8: SOAP

- Introduction to SOAP Webservices

- SOAP UI/ READY API Basics & Installation

- Create a project,Testsuite Testcase

- Assertions.

## After Completion Of Course

- Mock Interviews

- Interview Preparation

- Written Exams

- Resume Preparaion

Faculty : ........................................................

Date : ........................................................

Time : ........................................................

Duration : ........................................................

Fee : ........................................................

Comments : ........................................................

# 1000+ Recruitment Partners



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ValueLabs · acuvate · FAI · DELTA TECHNOLOGY · ZENQ · KENSIUM
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# Placed Students



| Name | Company | CTC |
|------|---------|-----|
| G.Sravani | Black Hawk | CTC: 10 LPA |
| T. Premsai | Zemoso | CTC: 6.89 LPA |
| V. Balaraju | Zemoso | CTC: 6.89 LPA |
| SN. Nagarjuna | Cerner | CTC: 6.0 LPA |
| Anjali Kumari | e-Team info services | CTC: 4.5 LPA |
| D. Supriya | First American | CTC: 4.4 LPA |
| CH. Mohan Gopi Krishna | First American | CTC: 4.4 LPA |
| K. Alekhya | Darwinbox | CTC: 4.32 LPA |
| K. Bhanu | Darwinbox | CTC: 4.32 LPA |
| G.Venkatesh | Darwinbox | CTC:4.32 LPA |
| M.Sravani | IBM | CTC: 4.2 LPA |
| D.Vishnu Sagar | Delta Technology | CTC: 4.0 LPA |
| MD. Rashid Jawaid | Delta Technology | CTC: 4.0 LPA |
| N.Spandana | Delta Technology | CTC: 4.0 LPA |
| A. Jaya Krishna | Delta Technology | CTC: 4.0 LPA |
| K. Alekhya | Delta Technology | CTC: 4.0 LPA |
| N.Kavya | Delta Technology | CTC: 4.0 LPA |
| G. Rambabu | JD Sports Fashion | CTC:4.0 LPA |
| D. Srividya | Darwinbox | CTC:4.0 LPA |
| A. Satya Prakash | Corpus | CTC: 3.6 LPA |
| N.Suresh | Corpus | CTC: 3.6 LPA |
| S. Divya | Infosys | CTC: 3.6 LPA |
| M. Lokesh Reddy | Infosys | CTC: 3.6 LPA |
| KLV. ShivaSai | Darwinbox | CTC: 3.6 LPA |
| T. Vineetha | Darwinbox | CTC: 3.6 LPA |
| Sushmitha | TCS | CTC: 3.53 LPA |
| C. Hasini | Gaian Solutions | CTC: 3.5 LPA |
| M.Ramya | Gaian Solutions | CTC: 3.5 LPA |
| M. Shivakumar | Gaian Solutions | CTC: 3.5 LPA |
| B. Sandhya Rani | Gaian Solutions | CTC: 3.5 LPA |
| E. Bharathi | Gaian Solutions | CTC: 3.5 LPA |
| D. Sowmya | Gaian Solutions | CTC: 3.5 LPA |
| B. Sravani | TCS | CTC: 3.5 LPA |
| V. Rakesh | Defteam | CTC: 3.5 LPA |
| Ajay Jikare | TCS | CTC: 3.36 LPA |
| Govind Dasharathe | TCS | CTC: 3.36 LPA |
| K.Tharun | Piersoft | CTC: 3.0 LPA |
| B. Ananya | Pronix | CTC: 3.0 LPA |
| Poorna | Capgemini | CTC: 3.0 LPA |
| T. Kalyankar | Infosys | CTC: 3.0 LPA |
| Vijay Reddy | NCR | CTC: 3.0 LPA |
| M. Vandana | Smart Data | CTC: 3.0 LPA |
| M. Gopi | Smart Data | CTC: 3.0 LPA |
| S.Venkat Reddy | Aryagami Cloud | CTC: 2.76 LPA |

# Courses We Offer

## Testing Programs

**Testing Tools**
Functional Test Engineer

**Manual Testing**
Manual Test Engineer

**Selenium Testing**
Automation Test Engineer

**TOSCA**
TOSCA Test Engineer

**API&ETL Testing**
API Test Engineer

**Performance Testing**
LoadRunner & JMeter

## Developing Programs

**Full Stack Java**
Full Stack Java

**Core Java**
Core Java

**Adv Java & Frameworks**
Adv Java & Frameworks

**Full Stack Python**
Full Stack Python

**Python Programming**
Python Programming

**DJANGO & Frameworks**
DJANGO & Frameworks

## Advanced Programs

**DevOps**
DevOps Engineer

**Data science with AI**
Data science with AI

**Data Analytics**
Data Analytics

**Selenium with C#**
Selenium with C#

**Playwright Automation**
Playwright Automation

**Python with Selenium**
Python with Selenium

# Training Methodology



**Class room Training**

**Project Training**

**Resume Preparation**

**Certification**

**Interview Preparation**

**Placement Assistance**

# Our Infrastructure