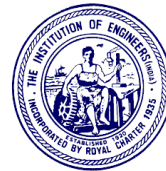# Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. Telangana, India

INFORMATION TECHNOLOGY DIVISION

ONLINE PROFESSIONAL DEVELOPMENT PROGRAMME

Software Testing & Quality Assurance

Software Testing & Quality Assurance
(Journey to Zero Defects Delivery)

11 – 14 Dec 2023

(Six Hours per day)

Powered by
ESCIUpSkill
A Smart Learning Platform

Introduction

Software testing is a systematic activity which identifies defects in the software and helps in correcting and preventing them before the software is released to the end user The need for quality and trained resources has become a critical issue in the IT industry. Training focuses on all aspects of testing, process, methodologies, best practices, and focused at improving testing capabilities of participants. Training is aimed at 'learning by doing' and equip participants to go back and implement what they learn on-the-job.

Selenium is a set of different software tools each with a different approach to supporting test automation. Most Selenium QA Engineers focus on the one or two tools that most meet the needs of their project, however learning all the tools will give you many different options for approaching different test automation problems. The entire suite of tools results in a rich set of testing functions specifically geared to the needs of testing of web applications of all types. These operations are highly flexible, allowing many options for locating UI elements and comparing expected test results against actual application behavior. One of Selenium's key features is the support for executing one's tests on multiple browser platforms.

Objectives

- To enable people become technology aware, use technology effectively in the daily life
- To Know About effective usage of Internet. & Computer Security
- Communication tools and security measures to be taken for Data storage.

Course Coverage

- Importance of Software Testing,
- Software Testing Methods
- Levels of Testing. Functional Testing,
- Non Functional Testing
- User Acceptance testing
- Software Development Life Cycle
- SDLC Models.
- Windows & Web Application Testing
- Test Strategy, Test Planning, Testing Terminology
- Test Case Designing, Build Release Process,
- Test Execution Process, Defect Reporting & Tracking.
- Java Concepts
- Configuring Eclipse for Selenium & Java,
- Java Concepts

- Introduction to Automated Testing,
- Web Application Using Selenium Tools,
- Features of Selenium Tools,
- Selenium Components
- Selenium IDE, Configure of Selenium IDE
- TestNG Framework
- Selenium Grid
- Defect Recording & Management
- Test Reporting, Test Metrics
- Windows based Application Testing
- Windows based Application Testing
- QA & QC ISO & CMM Standards
- Testing Certifications
- Defect Prevention as a Continuous Improvement Process Introduction to Verification and Validation (V&V)

Methodology

Methodology of the programme includes

- Learning prerequisites skill through ESCI LMS Platform
- Online Video Interactive sessions with Cloud based Hand-on Practical,
- Online case studies, Sharing of experiences.

Target Participants

- Professionals working in the field of software development, Software Testing, Programmers, Application Developers, Web developers in IT departments.
- IT Managers, Systems Managers, Scientists, Engineers and Consultants working in governmental, defense, public, private sector organizations, industries.
- Professors, Faculty members and Technical Staff of engineering and MCA colleges
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Benefits to the participants

- Hands-on practical experience on Selenium
- Learn Industry best practices, processes and methodologies of testing.

Programme Dates & Timings

Dates: 11 – 14 Dec 2023 (6 Hours per day)

After registration participant can access **ESCI LMS platform** for digital learning

Online session timings will be from 13:30 – 16:30 hrs with 15 Minutes Tea breaks.

Course Director

Mr. Syed Azgar, MBA(IT), RHCE, MCSA
Sr Faculty & Head IT,
Information Technology Division,
Engineering Staff College of India, Hyderabad.

Course Fee for Offline Training

₹ **20,000/- (Residential Fee)** per participant. Fee includes Single AC accommodation, course material, course kit, Breakfast. Lunch, Dinner, Tea / Coffee and Snacks during the actual days of the training program

Course Fee for Online Training

₹ **12,000/-** per Participant. Fee includes 3 Months LMS Platform Access for Digital Learning, 30 Hours Live Interactive Sessions, Experts Online Support and Reading Material Softcopy.

GST @18% is to be paid extra and above the training fee as training. **PAN Card No.** AAATT3439Q. **GST No: 36AAATT3439Q1ZV, HS No.: 999293** (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).

Programme fee is to be paid in in favour of **"THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA"** by **Electronic Fund Transfer (EFT)** to ESCI – **Axis Bank** A/c No. **912010049234564** with The Axis Bank Ltd, Old Mumbai Hwy, Cyberhills Colony, P Janardhan Reddy Nagar, GachiBowli Hyderabad-500032 by NEFT/ RTGS/ IFSC Code No. UTIB 0000733 – MICR No.500211020. **While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.**

Registration

Online registration shall be available on ESCI **web portal** http://www.escihyd.org/index.php/it-upcoming-trainings

To register manually please send your nominations giving details of name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to : **it@escihyd.org**

A Certificate of participation will be awarded to each participant on conclusion of the programme.