



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India



INFORMATION TECHNOLOGY DIVISION

PROFESSIONAL DEVELOPMENT PROGRAMME

Software Testing & Quality Assurance

(Hands-on Practical training on Selenium)



(Journey to Zero Defects Delivery)

19 - 22 Sept 2017



(An ISO 9001:2008 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

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 learn how to deliver robust software applications (IT) with effective testing.
- Hands-on practical test cases using Selenium Tools
- To learn Industry best practices, processes and methodologies of testing

Course Coverage

- Importance of Software Testing
- Software Development Life Cycle
- SDLC Models
- Software Testing Methods
- Levels of Testing
- Functional Testing
- Non Functional Testing
- User Acceptance testing
- Testing Terminology
- Windows & Web Application Testing
- Test Strategy
- Test Planning
- Test Case Designing
- Build Release Process
- Test Execution Process
- Defect Reporting & Tracking
- Introduction to Automated Testing
- About Selenium Tools
- Features of Selenium Tools
- Selenium Components
- Configure of Selenium IDE
- Configuring Eclipse for Selenium & Java
- Java Concepts
- Data Driven Testing
- Debugging scripts in Eclipse
- TestNG Framework
- Selenium Grid
- Framework
- Page object Model Frameworks
- ANT/MAVEN
- JANKING
- SOAP UI
- Defect Recording & Management
- Test Reporting
- Test Metrics
- QA & QC
- ISO & CMM Standards
- Testing Certifications
- Defect Prevention as a Continuous Improvement Process
- Introduction to Verification and Validation (V&V)

Training Prerequisites: Training attendees must be well versed with concepts of Software Development

Methodology

Methodology of the programme includes class room sessions with Hand-on Practical, Lecture / Discussion with audio visual aid, bench marked video shows, chalk & talk sessions, group discussions, case studies, debates, sharing of experiences etc. All the sessions will be interactive demanding active participation from all the members.

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

Benefits to the participants

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

Programme Venue, Dates & Timings

Venue: Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad. 500032. TS, India.

Dates

19 – 22 Sept, 2017

Timings

On the first day Registration will commence at 09:00 hrs. On all other days the programme timings will be from 09:45 – 17:15 hrs with breaks in between for tea and lunch.

Course Director



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

Course Fee

₹ 18,000/- (Residential Fee) per participant. Fee includes course material, course kit, twin-sharing / single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks during the actual days of training programme.

DISCOUNTS

- ❖ **Non – Residential Fee** - 10% discount on course fee is allowed for non- residential participants.
- ❖ **Group Discount** - Additional 10% discount for three or more participants if sponsored by the same organization

(All discounts are applicable only if fee is received at ESCI before commencement of the programme)

GST @18% is to be paid extra and above the training fee as training is also brought under the purview of Service Tax in Finance Bill 2010. **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”** in the form of demand draft payable at Hyderabad. Alternatively the payment may be made by **Electronic Fund Transfer (EFT)** to ESCI - SB A/c No. 10007111201 with The SBI, PBB, Rajbhavan Road Branch, Khairatabad, Hyderabad-500004 by NEFT/ RTGS/ IFSC Code No. SBIN 0004159 – MICR No.500002075. **While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.**

Register Online: <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, mobiles no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to:

The Head

Information Technology Division
Engineering Staff College of India
Gachi Bowli, Hyderabad – 500 032
Phone: 66304100 (EPABX) / 040 – 66304123/24/25 (Direct), Fax: 040 - 23000336
Email: it@escihyd.org, Portal: www.escihyd.org

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

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of outstation participants, ESCI will facilitate pick-up and drop from Airport / Railway Stations / Bus Stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participant directly to the Cab.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- Well developed Information Centre and Internet facilities are available to the participant.