

# Corporate Training Workshop

30<sup>th</sup> - 31<sup>st</sup> March, 2012 - For Test Leads, Test Engineers and Programmers

## UNIT TESTING AND STATIC ANALYSIS FOR IMPROVING CODE QUALITY

One of the main reasons for delayed projects and reduced customer satisfaction can be attributed to the code quality. Lack of experience with unit testing and static analysis techniques makes developers overlook their importance. This results in poor quality code being handed over to the testers. Luckily by designing and using effective unit test and static analysis techniques, it is possible to eliminate many defects early in the development life cycle.

This workshop is designed to help developers learn the skills needed to improve code quality.

### The workshop will help you:

- Design an effective unit test strategy
- Develop and implement unit testing using Eclipse and Junit
- Understand the importance of static analysis
- Use static analysis tools to identify deep rooted code defects

### Pre-requisites:

- Minimum 2-3 years of experience
- Basic Java programming skills

### Workshop Coverage

#### Test Driven Development (TDD) using Junit

- Set up and configure Junit
- Design unit test cases
- Execute unit tests
- Design and develop custom test reports in XML / HTML format

#### Overview on JUnit extensions

- DBUnit, SQLUnit, HTTPUnit and XMLUnit
- Testing with Stubs
- Testing mocks with EasyMock

#### Static Analysis Tool – FindBugs

- Importance of Static Analysis
- Installing and configuring Static Analysis Tool

#### Identify 200 defect patterns through Static Analysis Tools

- Null pointers
- Infinite recursive loops
- Bad usage of Java Libraries
- Deadlocks
- Multithreading errors
- Performance errors



# Corporate Training Workshop

30<sup>th</sup> - 31<sup>st</sup> March, 2012 - For Test Leads, Test Engineers and Programmers



## UNIT TESTING AND STATIC ANALYSIS FOR IMPROVING CODE QUALITY

### Workshop format:

This workshop is conducted as a combination of lectures, demonstrations and hands-on assignments. The focus is on hands-on practical learning

### Duration & timings:

30<sup>th</sup> - 31<sup>st</sup> March, 2012 from 10.00 am to 5.00 pm

### Fee:

Rs. 15,000 per participant (S.Tax extra)

### Discounts:

15% discount for a group of 4 or more registrations

### To enroll:

Email: [corptraining@talentsprint.com](mailto:corptraining@talentsprint.com)  
Call: +91 97059 92599

### Venue:

TalentSprint  
IIIT Campus, Block A  
Gachibowli, Hyderabad  
India 500 032



### About the Trainers

#### LRV Ramana

*Head, SW Testing Practice*

LRV Ramana has 15 years of experience in the field of software testing. His expertise lies in mobile testing, business process testing and complex end-to-end testing engagements.

He is CSQA certified (conducted by QAI USA) and specializes in:

- Test management
- Test strategy
- Test automation frameworks
- Test process improvement
- Developing solution accelerators

He has worked with large organizations and serviced Fortune 500 companies.

#### Rita Ashar

*Principal Trainer, SW Engineering Practice*

Rita has 11 years of experience in conducting corporate training on Java and J2EE technologies. She has conducted more than 50 training sessions for medium and large technology firms.

She is Sun Certified in Java and specializes in:

- Java, J2EE
- Oracle fusion
- C, C++ & C#
- Ajax
- Android

Rita has trained hundreds of engineers in her career. She is also an active speaker in different online forums.

### About TalentSprint

TalentSprint ([www.talentsprint.com](http://www.talentsprint.com)) is a leader in creating high performance professionals for the global industry through fast-track transformations. Focused on IT and BFSI sectors, TalentSprint has developed experiential learning programs that are based on industry-designed curriculum and are backed by national or international certifications.

TalentSprint courses focus on professional education and practical learning that can be applied in the workplace. These courses are taught by seasoned professionals with deep domain expertise and years of industry experience.