About TOPS Technologies

- Dynamic, rapidly growing, IT Software Development Company

- Develop outsourcing projects in Microsoft, SUN, Open Source and Digital Marketing .
- Provides Training & Placements in .NET, PHP, Software Testing, Digital Marketing, Java and Spring , IOS , Android , web and Graphics Designing , Networking .

- Management team with over 10 years of US Experience working for Banks and Consulting Companies

Training & Placement

Better Education Better Jobs
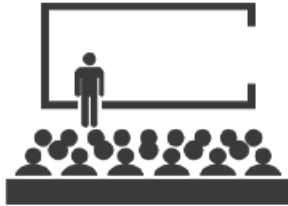
50,000$^+$ **Students Trained**

19$^+$ **Our Offices**

18$^+$ **Courses Offered**

Job Guarantee + Job Satisfaction

2000$^+$ **Company Tie Ups For Placements**

TOPS TECHNOLOGIES
TRAINING   OUTSOURCING   PLACEMENTS

Outsourcing

We Are Versatile
Our Developers Work On Varied Technology Platforms And Frameworks

Joomla   WordPress   Drupal   Magento   PHP

Windows   HTML 5   Microsoft .Net   IOS   Android

Agenda

- About TOPS
- What is Testing and why its Necessary!
- Testing Principles
- Fundamentals of Testing
- Types of testing
- Mercury Load runner.
- Our Role in your career
- Contact Us

What is testing & why its necessary!

What is Testing ?

- Take measures to check the quality, performance, or reliability of (something), esp. before putting it into widespread use or
- practice.
- Reveal the strengths or capabilities of (someone or something) by putting them under strain.
- Software testing is an investigation conducted to provide stakeholders with information about the quality of the product or
- service under test.

Why Testing is Necessary

Software systems are now part of everyday life. We all have experienced software systems failing !
S/w system failures can lead to:
• Human Injury or death (e.g. Airplane crashing)
• Technological Disasters (e.g. Missile Systems malfunctioning)
• Loss of face for suppliers or their customers (e.g. misspelling company name in mail shots)

WHY TESTING...??

What if we don't Do testing ?

China Airlines Airbus A300 crashing due to a software bug on April26,1994 killing 264 innocent
lives

• Software bugs can potentially cause monetary and human loss, history is full of such examples

• InApril of 1999, a software bug caused the failure of a $1.2 billion military satellite launch, the
costliest accident in history

• In may of 1996, a software bug caused the bank accounts of 823 customers of a major U.S.bank to be credited with 920 million US dollars

Fundamentals of Testing

What we are going to do in Testing?

- We are going to Test that if the system result meet with the requirement or not. In that process
- we tester may be find defect in that system . . . . .
- "A mistake in coding is called error,
- error found by tester is called defect,
- defect accepted by development team then it is called bug,
- build does not meet the requirements then it is failure"

Testing Principles!

Summary of seven testing principles

➢ Testing shows presence of Defects
➢ Exhaustive Testing is Impossible!
➢ Early Testing
➢ Defect Clustering
➢ The Pesticide Paradox
➢ Testing is Context Dependent
➢ Absence of Errors Fallacy

What Kind of Requirement We can have?

Functional Requirements: describe system services or functions.
  - Compute sales tax on a purchase
  - Update the database on the server
Non-Functional Requirements: are constraints on the system or the development process.
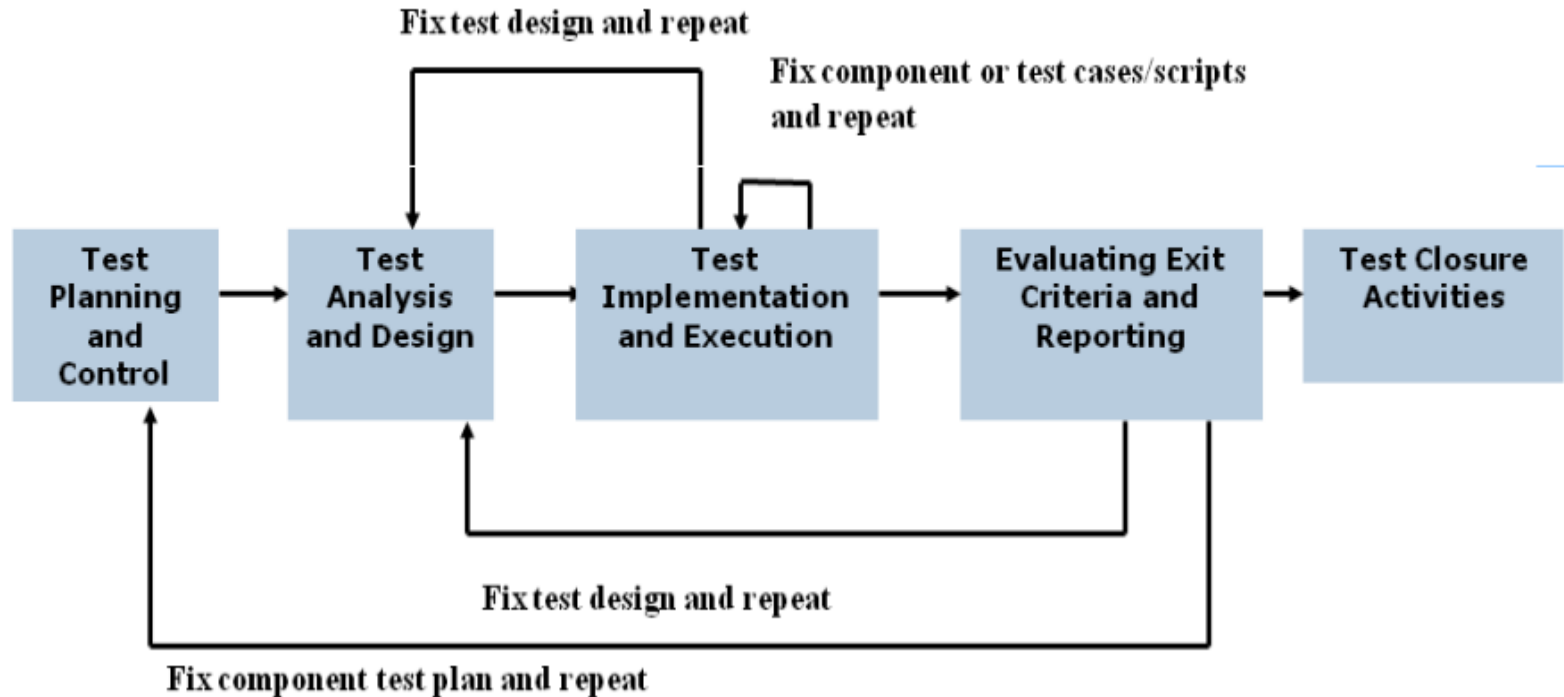Non-functional requirements may be more critical than functional requirements.
 If these are not met, the system is useless!

Fundamental Test Process

Five Stages of Testing Process are :
1. Test Planning and Control
2. Test Analysis and Design
3. Test implementation & Execution
4. Evaluation Exit criteria and Reporting
5. Test Closure activities

5 Phase of Fundamental Test Process

Fix test design and repeat

Fix component or test cases/scripts and repeat

| Test Planning and Control | Test Analysis and Design | Test Implementation and Execution | Evaluating Exit Criteria and Reporting | Test Closure Activities |

Fix test design and repeat

Fix component test plan and repeat

Fundamental Test Process

Five Stages of Testing Process are :
1. Test Planning and Control
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Testing Deliverable Terms

- ➢ Test Set
- ➢ Test Case
- ➢ Test Condition
- ➢ Test Script/ Test Step/ Test Procedure
- ➢ Test Data
- ➢ Test Environment

Types of Testing

Manual Testing
The process of manually testing software for defects. It requires a tester to play the role of an end user, and use most of the all the features of the application to ensure correct behavior

Automation Testing
Test automation is the use of special software (separate from the software being tested) to control the execution of tests and the comparison of actual outcomes to predicted outcomes.

Manual Testing Tools

Test Script

➢ The step # identifies the task sequence in the script
➢ Action/Input Data
➢ The action steps details the task to be performed
➢ Write action steps in terms that support execution (action oriented).
➢ Level of detail should reflect core business function, not system navigation.
➢ The input data describes what needs to be entered for a step(if applicable)
➢ Include all search criteria (Ex. First name, last name)
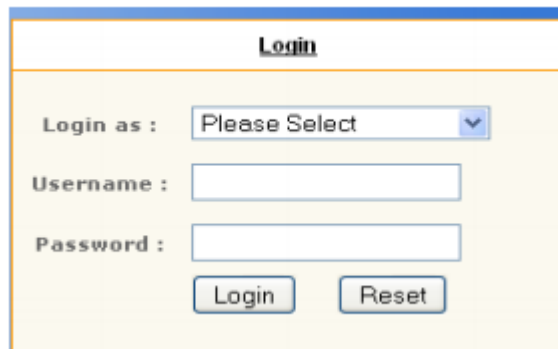
Test Script

Expected Result
• The expected results document what result are anticipated for this step
• Include detail needed for business process (Ex. Required fields, external system interfaces)
Actual Results
• Where the "script executor" enters the result that occurred from the step
• Be specific.

Test case

Test Case: 100.1		
Description: To check login functionality with Valid username &		
Step Number	Step Description	Expected Result
1	Open website	Home page should be display
2	Enter username, enter password and press login button	Home page should display

Automation Testing Tools

QTP (Quick Test Professional)

LR (Load Runner)

Selenium IDE

Why use automated testing tools ?

Manual Testing .	Automated Testing
Time Consuming	Speed
Low Reliability	Reliable & Reusable
Human resources	Programming capabilities
Inconsistent	Coverage

Need of Automation

Speed – Automation Scripts run very fast when compared to human
users

Reliable – Tests perform precisely the same operations each time they are run,
there by eliminating human error.

Repeatable – We can test how the application reacts after repeated execution of
the same operation

Comprehensive – We can build a suite of tests that covers every feature in
our application

Reusable – We can reuse tests on different versions of an application, even if the
user interface changes.

Mercury Load Runner

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Reusable – We can reuse tests on different versions of an application, even if the user interface changes.

Define Stress/Load/Performance Testing

Stress Testing: Stress testing is done in order to check when the application fails by reducing the
system resources such as RAM, HDD etc. and keeping the number of user as constant

Load Testing: Load testing is done in order to check when the application fails by increasing the
number of user and keeping the system resources constant.

Performance Testing: The term performance can mean measuring response time, throughout
resource utilization or some other system characteristics (or group of them) by varying the
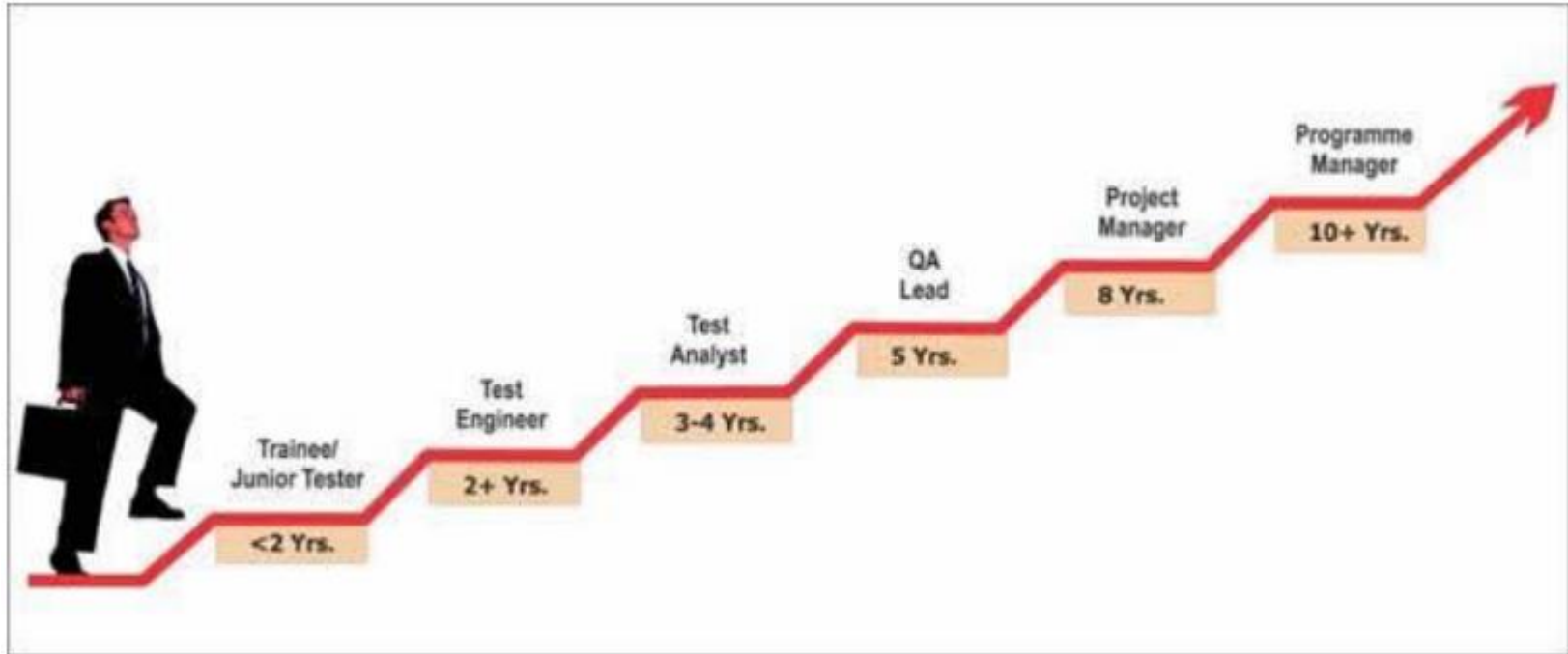number of user.

Mobile Application Testing
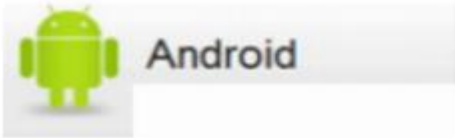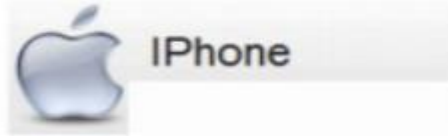
Work Areas of Software Testing

➢ IT Firms.
➢ Consulting Firms.
➢ Business, Industry, and Government.
➢ Faculty/Trainer.
➢ Freelancer .

Career Graph in Software Testing

Certifications in Software Testing

ISTQB

➤**Foundation-level**

➤**Advance-level**

➤**Expert-level**

Certified Associate in Software Testing: (CAST)

Certified Software Tester: (CSTE)

Certified Manager of Software Testing: (CMST)

How TOPS help in s/w testing ?

- ➤ TOPS software testing course gives in-depth knowledge of how testing is performed in
- ➤ industry.
- ➤ Real-time testing with live projects.
- ➤ Advance level Automation testing with real hands-on live project.
- ➤ Offers placement in reputed firm.

Our Role in Your Career

WHAT TOPS PROVIDE YOU..!

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What TOPS offers

- **Guaranteed Placements** after Graduation with MNC's as well as Companies across India with higher salary packages

- Live Projects experience

- Industry Certification

- Certified instructors

- Project with complete SDLC

- Exposure and experience on Industry used tools

Placement

LIVE Project work Experience

Industry accepted Certification

Certified Instructors

TOPS TECHNOLOGIES
TRAINING   OUTSOURCING   PLACEMENTS

Projects on complete SDLC

Exposure to industry level tools

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Working on Projects

Live Project

- Requirements from Clients

- Formal understanding of requirements – Project scope

- Design of application (layout) and its approval from client

- Development Process Begins by using an existing framework or library

- Testing internally by Testing process

- UAT

- Deployment

- Maintenance

Demo Project

- Requirements gathering

- Designing and Development done parallel.

- Limited Testing

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Working on Projects

Your Knowledge + **TOPS Training** = **Your Placement**
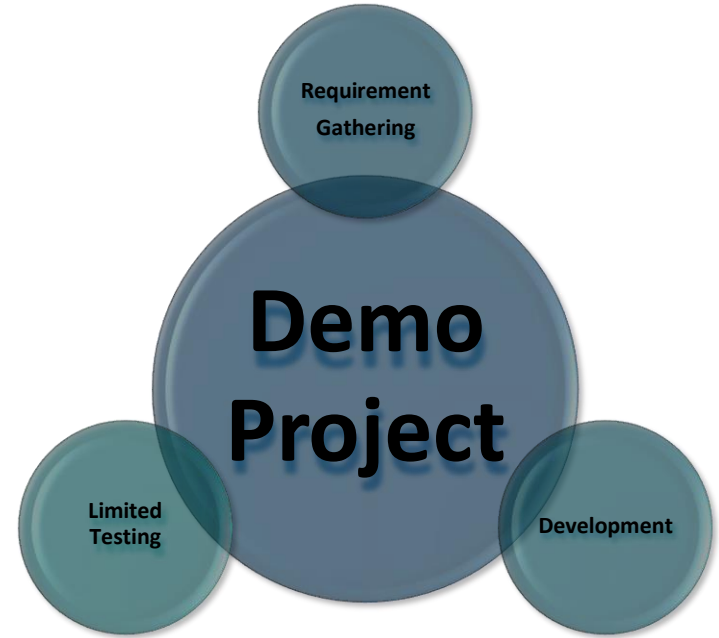
Join Us and shape your career as Software Testing Professional

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Our Shortlisted Students

COMPANIES WHERE OUR PAST STUDENTS ARE WORKING
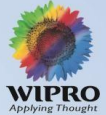
Planning to Go/Settle Abroad?

TOPS Overseas will help you for the following:

1)   Career Counseling for any country of interest (Australia, Canada, Newzeland , USA, Any European countries)

       a.   Tie ups with colleges and universities across countries

2)   Help get better scores with IELTS/PTE/GMAT/GRE

3)   One stop solution for learning all IT courses as well as getting re... for Overseas

4)   Permanent Residency Options and counseling

5)   Job opportunities Abroad

Visit any of our nearest office locations to get details for the same – demonstrate locations

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For More ring us @

Ahmedabad Office (C.G.Road)
(M) :- 9974755006

Ahmedabad Office (Maninagar)
(M) :- 9974863333

Ahmedabad Office (Naranpura)
(M) :- 7624007666

Gandhinagar Office
(M) :- 7624006888

Rajkot Office
(M) :- 9724004242

Surat Office
(M) :- 9724033344

Baroda Office
(M) :- 9725355009

Nagpur Office
(M) :- 9225221123