



Ideabytes®

Innovation is Business

Established 2009

Leader - Software Tester Training Tools - Methods - Processes



Voted by Industry as :
Best in Training Software Testing & Automation

Specialists : Live Projects - Test Planning, Automation & Execution

Best in the Industry for
TESTING TRAINING



Introduction

Resources empower business to deliver goods and service to their customers. Resources that are not up to date with the latest technologies and methods, find it difficult to deliver quality and efficiency in a demanding market.

The Japanese method of "Kaizen" has been instrumental in evolving teams to their strengths one step at a time. In each step training comprises a large portion of it.

Organizations are busy delivering – and have little time to develop their own training programs. Ideabytes fills this role by providing services to analyze the needs of the organization and tailor programs to achieve the desired results.

Ideabytes, a Canadian company, was founded by members who believe in profitable excellence, and are committed to bringing the best in technologies and methodologies for your organization to build up the teams at the needed pace.



Facilities

Our class-rooms are located in modern facilities in Gachibowli, Hyderabad, where state of the art services are dispensed to customers globally. Class-rooms have state of the art equipment and attract a faculty that is grounded in excellence.



On-site Training

Ideabytes understands that business cannot come to a standstill, while resources improve their skill sets. Ideabytes provides trainers at your organizations facilities at times that are convenient for your resources.

To establish the right training for your organization, our experts will analyze your organization's needs, for a reasonable fee, and construct a program best suited to achieve the targets required

Courses are conducted globally, at prices that don't break the budget.



On-line Training

Given the global dispersion of an organizations work-force, time zones and locations make training of all resources at one time difficult and prohibitively expensive.

Ideabytes solution is the on-line programs which are executed during the hours best suited to the resources and in the desired countries.

To accommodate for language, trainers fluent in the language of the target location can be arranged.



Trainers

Ideabytes believes that trainers should be grounded with practical experience. Your resources don't need professors who spew theoretical material. Rather, they need trainers who work in real projects, have real knowledge of systems and real solutions to solve problems.

Our trainers are active in industry and recognized in their fields. They have an inherent need to share the knowledge with an audience that wants to know more.

Our Trainers have good communication skills – and are patient – and focus on the trainees. They succeed when the resources being trained, succeed.



Course Customization

No two organizations are identical, nor have identical processes. Theoretical courses don't prepare the resource to deliver needed objectives of your organization.

Ideabytes recognizes this and has technical experts, with Six-Sigma black belt standing that are able to evaluate your needs and customize the courses that best suit your organization.



Process and resource skill evaluation

Process and Resource evaluation can be a difficult proposition as it is difficult to evaluate teams from a fixed perspective. The evaluators need to be open-minded and have a clear understanding of what is needed to get the organization to achieve their targets.

Ideabytes is able to provide this independent evaluation of processes and skills for a win-win solution to suit your organization.

✓ ETL Testing

Course Outline

DWH Concepts

- Introduction to Data Warehouse Concepts
- ETL Concepts

Data Stage Course Content

- Introduction about Data Stage
- Difference between Server Jobs and Parallel Jobs
- Difference between Pipeline Parallelisms
- Partition techniques (Round Robin, Random, Hash, Entire, Same, Modules, Range, DB2, Auto)
- Configuration File
- Difference between SMP/MPD architecture
- Data Stage Components (Server components/Client Components)
- Package Installer

Data Stage Administrator

- Creating project, Editing project and Deleting project
- Permissions to user
- Apt Config file
- Environment variable creation, permission

Data stage director

- Introduction to Data stage Director
- Job status View
- View logs
- Scheduling
- Batches Creation

Designer

- Introduction about Designer
- Repository
- Palatte
- Types of Links
- File Stages
- Sequential File
- Data set File

Processing stages

- Change Capture (Caption)
- Compare stage
- Difference Stage
- Aggregate Stage
- Transformer Stage
- Surrogate Generator Stage
- Join Generator Stage
- Merge Generator Stage

Debugging stage

- Head
- Tail
- Pea
- Row Generator
- Column Generator
- Sample
- Job Parameters

Manager

- Introduction about Data stage Manager
- Importing the Job
- Exporting the Job
- Importing Table Definition

- Importing Flat File Definition
- Routines

Containers

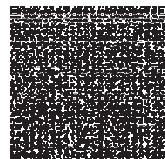
- Difference between Local Container and Shared Container
- Local Container
- Shared Container

DataStage QualityState

- About Date Quality
- DataStage Quality stages
- Investigate stage Standardize stage Match Frequency stage
- Unduplicated Match stage
- Reference Match stage
- Survive stage

Conclusion

- Resume Preparation
- Real Time Scenario
- Documents



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✓ HP QC

Course Outline:

Overview of HP ALM

- Site-Administration
- Dashboard
- Requirements Creation
- Overview of Release and Cycles
- Tests Creation
- Tying Requirements to Releases
- Requirements Traceability
- Tying Tests to Release Cycles
- Impact Analysis
- Viewing multiple requirements
- Performing Risk Analysis
- Generating Risk Report
- Running Tests Manually
- Converting Requirement to a Test
- Live Analysis Graph
- Creating Parameters & Templates
- Sprinter
- Mapping Test to Requirement
- Release Cycle Progress
- Mapping Defects
- Document Generator
- Generating Excel Reports Project and Case Study



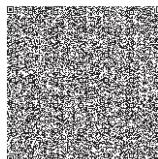
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HP QTP (UFT) Version 11.5

Course Outline

Testing fundamentals

- Unified Functional Testing
- GUI testing workflow
- Testing GUI
- Additional GUI testing Tools



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Preparing to Record

- User steps of a transaction
- Test environment
- UFT for GUI Testing
- Application under test
- Create tests
- Prepare the test environment

Creating a Basic Test

- Develop cases from manual flows
- Save a test
- Run a test and check for errors
- View test results

Working With Objects

- Identify objects
- Define a UFT for GUI object
- Use the object repository to manage objects

Adding Synchronization

- How QuickTest identifies Objects Working with Test Objects
- Synchronization in UFT
- Synchronization step for a specified object

Using Parameters

- Parameter types
- Insert an output parameter
- Insert an input parameter
- Parameterize a checkpoint

Automatic Parameterization

- Global parameterization
- Use test parameters
- Evaluate test results
- Options to auto parameterize
- global data table parameters
- Create environment variables types

Building Multiple, Reusable Actions

- Actions in GUI testing
- Action and test iterations
- Share values - global data
- Store action return values
- Create a new action
- Resolve missing actions
- Action types
- Calls to existing actions
- Call actions with parameters
- Multiple actions from a single action
- Call a reusable action
- Use local and global data sheets

Adding Steps without Recording

- Use conditional statements
- Use the Step Generator
- Steps without the record feature
- Use the reporter object

Creating Tests on a Web Application

- Record and run a test on a web application
- Insert a text checkpoint in a test for a web application

Writing Custom Checkpoints

- Custom checkpoint
- Compare captured to expected values

Using Database Checkpoints

- Database checkpoints
- Create a db checkpoint
- SQL using Microsoft Query
- Parameterize database query

Significant Checkpoints for GUI Testing

- Table checkpoints
- Working with Global and Action Sheets Editing and Saving Data Table
- File content checkpoints
- XML checkpoint
- Text and text area checkpoints
- Text recognition for Windows-object

Utilizing a Shared Object Repository

- Object repositories
- Object Repository Manager
- Shared object repositories
- Visual relation identifiers

Object Identification Techniques

- Config object identification
- Ordinal identifiers
- Smart Identification
- Use Case Scenario
- Mandatory and assistive properties
- Smart identifiers
- UFT & Smart Identification
- Test object mapping

Using Recovery Scenarios

- Identify exceptions in a test
- Create a recovery scenario

Local System Monitoring

- Performance graphs
- Local System Monitoring

Introduction to Expert View

- Advantages of Expert View
- VBScript relevance to UFT
- Keyword view and Expert View
- Common test objects and methods

Using Expert View

- Step generator
- VBScript With statement
- Manual steps in the Expert View
- Use statement completion

Working With Object Properties

- Properties of an object
- Access native properties
- Reporter utility - Events
- Set identification property values
- Constants and variables in scripts
- Reporter utility - test results

Working with Dynamic Objects

- Dynamic values of objects
- Program description for an object

Using VBScript

- VBScript operators
- VBScript functions
- VBScript statements
- VBScript operators

Working with Dynamic Data

- Retrieve data from objects
- Data Table object
- VBScript looping statements
- Data-driven test case

Retrieving External Data

- Access external data

- Connection and RecordSet
- Import and export data to Excel
- Import and export data to Text

Creating New Procedures

- Creating a procedure
- Register a procedure
- Subroutines and functions
- Function library

Live Project

Selenium Testing

Course Outline

Introduction:

Java

- Introduction
- Loops, Array and Functions Object Oriented
- Object Oriented Programming -1
- Object Oriented Programming -2
- Packages, Access Modifiers/ Exception Handling
- String, File Handling, Log4j/ Handling XLS files

Selenium IDE

- Selenium IDE
- XPATHS and firebug
- Wait Commands
- Recording Script
- Running, Pausing and debugging
- Verification and Assertions

Introduction to Selenium RC

- Selenium RC
- Java docs
- Default Selenium class
- Full and partial Xpaths
- Selenium IDE and Selenium RC
- Selenium RC in Eclipse
- FireBug and Firepath
- Browsers supported by RC

Selenium RC Features

- HTML components
- Capturing Screenshots
- JavaScript alert messages
- Closing browsers and killing sessions
- Slowing down the execution speed
- Extracting Data from Web table cells

Selenium RC -Pop Up and Tab- handling

- Window ID & extraction
- Handling popups
- IDs with Selenium Object reference
- Performing actions in pop up win
- Selenium RC Web Tables
- What is a web table?

Dynamic Web tables

- Extracting Cell value
- GetTable function in Selenium RC
- Selenium Web Driver

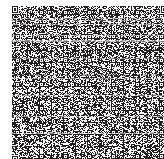
Why Web Driver?

- Drivers for Browsers
- Close and Quit methods
- Selenium RC and Web Driver
- Opening multiple browsers at a time

- What is Firefox profile

Selenium Web Driver – 2

- Firebug & FirePath Addons
- Identifying WebElements
- Handling Links with Web Driver
- Handling web elements



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Selenium Web Driver – 3

- Dynamic objects
- Capturing screenshots
- Tabbed browsing
- Extracting links, other web elements
- Window handles
- Certificate error handling

Selenium Web Driver – 4

- Pausing execution
- Web DriverWait Class
- Web DriverWait Class
- Introducing wait
- JavaScript alert messages
- Simulating Pressing Enter

TestNg Framework / ANT

- What is TestNg?
- What is Ant?
- TestNg annotations
- Building BAT files

TestNg and Hybrid(Keyword+Data)

Framework

- Hybrid Frameworks
- Reflection API
- XLS File Test Cases and Keywords
- Running the framework through ANT

Selenium 2.0 Features – 1 XLS File Test Cases

and Keywords

- WebTable
- Mouse Interface
- Handling cookies
- Ajax Autosuggests
- Dynamic WebTable
- Attaching files with Selenium
- Handling Frames in Web Page
- Working with Calendar

Selenium 2.0 Features – 2

- Firefox profile parameters
- Coordinates- Web Objects
- Listeners in Selenium
- Handling CSS menu
- Simulating Browser button click
- Handling CSS menu with Action class
- Actions class in Web Driver
- JavaScript Executor

Selenium Grid 2

- Grid 2 introduction
- Grid Node
- Configuration of Grid
- RemoteWeb Driver Object
- End to end scenarios
- Grid Hub
- Grid 1 versus grid2
- Node config json format file
- Parameter tag in testng.xml
- Grid Coding in eclipse

Selenium 2.0 – Exercises

Live Project

HP LoadRunner

A. Fundamentals of LoadRunner

Introduction to Performance Testing & Engineering

- The value of load testing/ Performance testing
- What is Performance Engineering
- Difference between Performance Engineering & Testing
- Performance test Life Cycle
- Types of performance tests & approach
- What is LoadRunner?



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Introduction to HP-LoadRunner

- LoadRunner components
- LoadRunner Architecture
- LoadRunner License
- LoadRunner Protocols
- N-Tier Architecture

LoadRunner Installation

- Understand LoadRunner components
- Hardware requirements

Planning an effective load test

- Establish load test goals
- Study application under test
- Profile the system

B. VuGen Scripting for Web

- Recording for the Web
- PlayBack
- Actions and Transactions
- Using Parameters
- Verification-Checkpoints
- Manual Correlation
- Auto Correlation – After Recording
- Auto Correlation – Before Recording

C. Working with Controller & Analysis

1) Introduction to LoadRunner Scenarios

- What is scenario?
- Manual Vs Goal oriented scenario
- Defining scenario goals based on planning
- Defining and connecting to load generators
- Working with SLAs

2) Setting scenario specific Run-time settings

3) Scenario Execution

- Loading and overloading (base load, full load and overload) when executing scenario

4) Scheduling Scenarios

5) Performance Monitors

- Selecting and configuring performance monitors
- Monitoring Web, APP, DB servers

6) Results Analysis

- Did you meet your goals?
- Results analysis process
- Correlate the results of backed monitors and transactions
- Learn to read the analysis graphs and drill down to find the root cause.

D. Working with HP - Performance Center

E. Miscellaneous Topics

1. Performance testing on SAP applications

- How to record SAP GUI & Web based applications
- How to Monitor SAP applications
- How to analyze SAP applications

2. Performance testing on Siebel Applications

- How to record & playback Siebel Applications
- Troubleshooting Siebel errors

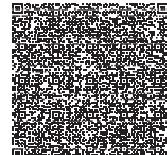
3. Performance testing with Citrix Application

ISTQB Certification

Introduction

Fundamentals of Testing

- Why is Testing Necessary?
- Fundamental Test Process
- Code of Ethics
- What is Testing?
- Seven Testing Principles
- The Psychology of Testing
- What is LoadRunner?



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Test Throughout the Software Life Cycle

- Test Levels
- Test Types
- Software Development Models
- Maintenance Testing

Static Techniques

- Static Techniques
- Review Process
- Test Process
- Static Analysis by Tools

Significant Checkpoints for GUI Testing

- Test Development Process
- Categories of Test Design
- Experience-based
- Specification based (Black Box)
- Structure-based or White-box
- Choosing Test Techniques

Test Management

- Organization
- Test Types
- Risks in Testing
- Incident Management
- Planning and Estimation
- Progress Monitoring and Control
- Configuration Management

Tool Support for Testing

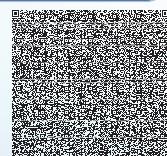
- Types of Test Tools
- Potential Benefits and Risk
- Effective Use of Tools
- Introducing a new Tool

Mobile Application Testing

Course Outline

Telecom Basics

- GSM
- GPRS
- 3G
- 4G
- WLAN
- Wi-Max



Devices and OS Platforms

- Android
- iPhone
- Windows Phone
- Symbian
- Blackberry
- MIDP - Java

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Mobile Apps History, Eco System

OEMs Intro

- Samsung
- Nokia
- HTC
- Motorola
- Sony
- LG

Chipsets Intro

- ST-Ericsson
- MTK
- Mstar
- Broadcom
- Intel
- Atheros
- NVIDIA
- Qualcomm

Mobile Testing Basics

- Mobile ECO System
- Introductions to Mobile Development and Testing

Mobile Native App

- What is a Mobile Web App
- What is a Enterprise Mobile App ?
- Mobile Testing Methodologies
- What is the difference or challenges between Emulator testing and Device testing and Cloud testing ?
- Creating a Sample Android Application

Mobile Testing strategy

- How to plan your mobile testing (Devices, SIM Cards, Networks, OS Platforms)
- How to plan the tests (Emulator , Device, Cloud)

Mobile Application Marketplaces

- Play, Itunes, Windows Store, BB App World

Installation

- Installing Android SDK (Intro)
- Installing Other SDKS (Intro)

Every participant in the training Installs and runs android emulator in eclipse

- Writing Mobile Test Cases and Plans
- MMI Testing, Interrupts, OTA

Mobile Cloud Services

- Perfecto Mobile / Device Anywhere / Sciracco Cloud

Installing different packages

- (.apk, .ipa, .xap, .cod) in the phones

Testing in Platforms

- Emulator testing
- Creating Projects and Test Projects in Android SDK in all the Machines (Participants)
- Simulator testing

Mobile Cloud Services

- Mobile Testing Automation tools Intro SeeTest, MonkeyTalk, Telerik) - Paid tools
- Mobile Testing Open Source tools Introduction (MonkeyRunner, Android Monkey, Robotium, NUNIT) Introduction and Practical sessions - Open Source tools
- Candidate performing some basic automation in their machine with Android Monkey, Robotium
- Candidate Identify one mobile app and Write test cases and writes them
- Candidate executes the test cases
- End to End Mobile testing scenarios, defect reviews

- Mobile web testing, mobile browser testing
- Mobile Browser testing tools (Open source)
- Overview on Monkey-talk, Robotium, Calaba.sh, Appium.io, Frank / Cucumber, Sikuli
- Participants Perform Robotium Automation notepad test application and write / edit the automated test case in Android platform
- Participants select and download one application (Ex: Nimbbuzz) and write 5 Positive and 5 Negative scenarios and Trainer will read out the test cases written and pass his views.



Test Automation Frame Work

Course Outline

Telecom Basics

- What is TestNg
- Installing TestNg in Eclipse
- TestNg annotations
- Understanding usage of annotation
- Running a Test in TestNg
- Batch Running of tests in TestNg
- Skipping Tests
- Parameterizing Tests – DataProvider
- Assertions/Reporting Errors
- TestNg Reports
- Advantages over Junit
- Using TestNg in Selenium
- What is Ant
- Downloading and configuring Ant
- Build.xml configuration
- XSLT report generation using TestNg and Ant
- Building a BAT file to run tests using ANT



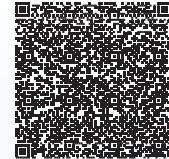
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ICMTP

Course Outline

Telecom Basics

- Week-1 (7.5 Hours)
- Introduction to Testing
- Black Box Test Design
- Introduction to System Modeling
- Introduction to QML
- Using Conformiq Designer
- Testing Interfaces
- State Machines
- Modeling for Test Generation
- Requirement Traceability
- Modeling Best Practices
- Debugging Models
- Advanced QML Features
- Modeling with Multiple Components
- Model Architectures
- Creating Reusable Models
- Scripting Backend
- One week project work on Live Project (10 Hours)



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Courses Offered...

- ✓ ETL Testing
- ✓ ISQTB Certification
- ✓ HP QC
- ✓ Mobile Application Testing
- ✓ HP LoadRunner
- ✓ Test Automation Frame Work
- ✓ HP QTP
- ✓ Selenium
- ✓ Ideabytes® Certified Model Based Test Professional



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