



Yes-M Systems

QA Tools (QTP, QC/ALM), ETL Testing, Selenium, Mobile, Unix, SQL, SOAP UI

From Yes-M Systems LLC

Length: Approx 7-8 weeks/70+ hours

Audience: Students with knowledge of manual testing

Student Location – To students from around the world

Delivery Method: Instructor-Led – Live Training

Classroom and/or Online

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YES-M SYSTEMS LLC

A. Course Summary

About this Course:

This 70+ hour course is designed to give students with a manual testing knowledge a solid knowledge in QTP, QC, ETL Testing, SQL, UNIX, Agile, Selenium, Mobile and SOAP UI. Topics are reinforced with intense hands-on practices including in class exercises, projects, home works with home work feedbacks. This course is taught by experienced instructors who have solid IT experience. During and after the course, students will get to attend mock interview sessions and resume preparation sessions.

This course will allow the students to understand various QA tools and QA related advanced topics including:

- (i) Automation Tools - HP Tools like Quality Center and Quick Test Pro (QTP) and Selenium with hands-on
- (ii) In-depth ETL Testing (data warehousing testing) with hands-on
- (iii) Advanced Testing including Mobile Testing, SOAP UI, Web Services Testing with hands-on and SOA concepts
- (iv) Unix and SQL with hands-on
- (v) Interview Questions, mock interviews and resume Preparation sessions.

Projects/mini-projects/Hands-on sessions via class work and/or home work on the following topics:

- (i) QTP
- (ii) Selenium, Mobile Testing, Web Services and SOAP UI
- (iii) Unix
- (iv) ETL Testing
- (v) SQL Queries

AT COURSE COMPLETION

1. Perform the role of a QA Tester or Test Engineer or IT Tester
 - a. ETL Testing
 - b. Automation testing using QTP
 - c. Database tester
 - d. Writing SQL queries
 - e. Handle Unix commands
 - f. Handle Mobile testing

B. Contact us for more details:

Company name: Yes-M Systems

Website: <http://myyesm.com>,

Phone numbers (USA): 678-643-7777, 678-248-0302

Phone number (India): 91-8220006968

Kudzu Reviews: <http://www.kudzu.com/m/Yes-M-Systems-30363491/reviews/>

Facebook: <http://www.facebook.com/yesmsystems>

Youtube: <http://www.youtube.com/yesmsystems>

C. QA Tools, ETL Testing, Selenium, Mobile, Unix and SQL, SOAP UI

Total Course length: 74 hours [Approx]

1. QTP – 22 hours
2. ETL Testing – 20 hours
3. Selenium/Mobile testing/SOAP/Web services – 16 hours
4. Quality Center and Agile testing – 7 hours
5. SQL – 5 hours
6. Unix – 4 hours

(Note: A student is welcome to take any combination of these topics)

1. QTP

- 1.1. Introduction to Automated Testing Principles
- 1.2. Introduction to QTP
- 1.3. Preparing to Record
- 1.4. Record a Test using both Keyword and Expert View
- 1.5. Working with Objects including managing test objects.
- 1.6. Using Synchronization to enhance Test script.
- 1.7. Using Standard Checkpoints
- 1.8. Use of Regular Expression in Standard Checkpoints
- 1.9. Using Parameterization (Data Driven Testing)
- 1.10. Reusable and Multiple Actions
- 1.11. Add steps without recording
- 1.12. Create Tests on a Web Application
- 1.13. Custom Checkpoints
- 1.14. Database Checkpoints
- 1.15. Intro to Advanced topics
 - 1.15.1. Special focus on VB Scripting
 - 1.15.2. Descriptive programming
 - 1.15.3. Regular Expressions.
- 1.16. Lab
 - 1.16.1. Instructor Driven Lab Exercises
 - 1.16.2. Homework Exercises
 - 1.16.3. QTP Interview Questions

2. ETL Testing

- 2.1 Introduction of ETL-Extract, Transform, Load
- 2.2 SQL Concepts
- 2.3 OLTP , OLCP, OLAP
- 2.4 OLTP vs. OLAP
- 2.5 Data Extraction
- 2.6 Data Transformation
- 2.7 Data Loading
- 2.8 Data Marts
- 2.9 Dependent Data Mart
- 2.10 Independent Data Mart
- 2.11 Data Base Design
- 2.12 ETL TOOLS and Diff Types of ETL Tools
- 2.13 ETL ARCHITECTURE
- 2.14 ETL TESTING AND WHY WE REQUIRE
- 2.15 DIFFERENT ETL TOOLS ARCHITECTURES
- 2.16 Roles and Responsibilities
- 2.17 Minus, Duplicate, Count, Intersection, Except, etc...
- 2.18 Detect Defects
- 2.19 Defects Logging and Reporting
- 2.20 How to prepare Queries to test the ETL process
- 2.21 Performance Tuning and Performance Testing
- 2.22 Test plan Preparation
- 2.23 Test cases Preparation
- 2.24 Preparation of Test data
- 2.25 Process Of ETL Testing
- 2.26 Different Types of ETL Testing
- 2.27 Testing ETL deployments
- 2.28 Data Warehousing Concepts
 - 2.28.1 Data warehouse architecture
 - 2.28.2 Datamart
 - 2.28.3 Dimensions, identifying dimensions
 - 2.28.4 Facts, identifying facts

- 2.28.5 SCHEMA
- 2.28.6 Star Schema
- 2.28.7 Snow Flake Schema
- 2.28.8 Types of tables in data warehouse
- 2.28.9 Cube and purpose of cube.

3. Mobile Testing

- 3.1 Complexity of mobile testing domain
- 3.2 The basics of mobile testing
- 3.3 Testing strategy matrix
- 3.4 Testing Strategy details
- 3.5 Types of Mobile Apps
 - 3.5.1 Web Apps(Mobile Web) /Native Apps/Hybrid Apps
- 3.6 Mobile Platforms
- 3.7 Functional testing
- 3.8 Sample Test Case
- 3.9 Baseline Testing
- 3.10 Input Modes
- 3.11 Usability testing
- 3.12 Compatibility Testing (Device/Browser/Network/OS)
- 3.13 Mobile Testing Tips
- 3.14 Hands on Web App Testing with Firefox
- 3.15 Hands on Native App Testing with Emulator
- 3.16 Hands on Testing with Online Device Provider (Samsung Remote Test Lab/Device Anywhere)
- 3.17 Mobile Test Automation with Online Device Provider
 - 3.17.1 Selenium/Robotium
- 3.18 Mobile GUI Testing
 - 3.18.1 Monkey/Monkeyrunner

4. Test automation using Selenium IDE

- 4.1 Test Automation using Selenium IDE
- 4.2 Selenium IDE installation
- 4.3 Selenium suite of tools
- 4.4 What is IDE
- 4.5 Sample Test Cases
- 4.6 Hands on Test automation using Record/Playback with IDE
- 4.7 Details of IDE tool : Toolbar, panes and options
- 4.8 Test Cases and Test Suite
- 4.9 Debugging
- 4.10 Selenium commands
 - 4.10.1 Base url
 - 4.10.2 assert/verify
 - 4.10.3 patterns
 - 4.10.4 Events
 - 4.10.5 variables
- 4.11 Locators
 - 4.11.1 name/Id/link
 - 4.11.2 css
 - 4.11.3 xpath
 - 4.11.4 dom
- 4.12 Exercises
- 4.13 Hands on Cross Browser testing with Selenium Server

5. Unix and Shell Scripting

- 5.1 Introduction to Unix
- 5.2 Telnet/Putty/WinSCP
- 5.3 Unix Architecture
- 5.4 Files and Processes
- 5.5 Directory Structure
- 5.6 Paths - Absolute/Relative
- 5.7 Commonly used UNIX Commands + Hands on
- 5.8 Vi/Vim Editor Commands + Hands-on Editing
- 5.9 Hands on with shell scripting

6. ALM/Quality Center tool

- 6.1. Overview of Quality Center
- 6.2. Overview of SDLC & STLC
- 6.3. Quality Center Architecture
- 6.4. Different Versions of Quality Center
- 6.5. Advantages of Quality Center
- 6.6. Overview on Domain & Projects
- 6.7. Creating Projects
- 6.8. Creating Domains
- 6.9. Creating Requirements
- 6.10. Creating Test Cases
- 6.11. Requirement Traceability Matrix
- 6.12. Executing Test Cases
- 6.13. Defect Reporting
- 6.14. Linked Defects
- 6.15. Analysis Graphics
- 6.16. Daily Status Report preparation
- 6.17. Weekly Status Reports
- 6.18. Execution Reports
- 6.19. Defect Reportst

7. Agile Testing Methodology:

- 7.1. Introduction to Agile
 - 7.1.1. Values and Principles
 - 7.1.2. Practices
- 7.2. Agile Vs. Traditional
- 7.3. The Process
 - 7.3.1. Release Cycle & Planning
 - 7.3.2. Tester Role in Planning a release
- 7.4. Sprint
 - 7.4.1. Sprint Cycle
 - 7.4.2. Sprint Planning
 - 7.4.3. Tester Role in the Sprint Cycle
- 7.5. Daily Cycle

- 7.5.1. Stand ups meeting
- 7.5.2. Definition of Done
- 7.6. Testing types
- 7.7. Defect Management
- 7.8. Tools & Techniques

8. SQL and Advanced SQL

8.1. Intro to SQL

- 8.1.1. SQL
- 8.1.2. Database
- 8.1.3. Table, Rows and Columns
- 8.1.4. Data Types
- 8.1.5. Primary Key, Alternate/Secondary Keys/NOT NULL/UNIQUE/CHECK and Foreign Keys

8.2. Statements:

- 8.2.1. SQL
- 8.2.2. Select and Select *
- 8.2.3. Column Alias, Null Value, Arithmetic Expressions
- 8.2.4. Concatenation Operator(||), Literal, DISTINCT
- 8.2.5. Where
- 8.2.6. Order By (Desc, Asc)
- 8.2.7. And & OR, Like
- 8.2.8. Not
- 8.2.9. IN
- 8.2.10. Not In
- 8.2.11. Insert, Update, Delete
- 8.2.12. DESCRIBE

8.3. Advanced SQL with Oracle

- 8.3.1. SQL commands:
- 8.3.2. Update, Delete
- 8.3.3. Create, Alter, Drop
- 8.3.4. Truncate, Select with various operators,
- 8.3.5. Count, Sum, Distinct,
- 8.3.6. Order by, Group by, Having
- 8.3.7. Working With Dates
- 8.3.8. Sub Query
- 8.3.9. Introduction to Joins
 - 8.3.9.1. Inner Join

- 8.3.9.2. Self Join
- 8.3.9.3. Outer Joins – Left/Right/Full
- 8.3.10. Hands on all above with Oracle APEX online
- 8.4. Why QA professionals need to know SQL basics
 - 8.4.1. Sample queries for data verification
 - 8.4.2. acquiring test data
 - 8.4.3. SQL Injection attack
 - 8.4.4. What to test in Relational DB apps

9. Interview and Resume preparations

- 9.1. HR Questions
- 9.2. General IT
- 9.3. QA questions
- 9.4. Resume preparations, Mock Interview, Job Placement Help

Disclaimer: Yes-M Systems and/or their instructors reserve the right to make any changes to the syllabus as deemed necessary to best fulfil the course objectives. Students registered for this course will be made aware of any changes in a timely fashion using reasonable means.

D. About Yes-M Systems:

- a. Established in 2005 (Atlanta, GA, USA), 10th year in business.
- b. A+ accreditation from US Better Business Bureau
(<http://www.bbb.org/atlanta/business-reviews/internet-consultants/yes-m-systems-in-duluth-ga-27431372>)
- c. Received the “Best of 2012” and “Best of 2013” awards from US-based Kudzu (<http://www.kudzu.com/m/Yes-M-Systems-30363491/reviews/>)
- d. Trained close to 3000+ students from all over the world.
- e. Experienced, passionate and committed trainers
- f. IT Training in various technologies including Java, Dot Net, SAP, Oracle, QA, BA etc (See Courses We offer section for more information)
- g. Professional guidance/help with resumes and interview preparations.
- h. Recruiter help with marketing/jobs
- i. Certification at the end of the training.

E. Courses we offer:

A. QA and BA courses:

- QA [Quality Assurance or QA Testing]
- BA [Business Analysis or Business Analyst]
- QA and BA as a single course (Integrated QA+BA) at a reduced fee.
- Advanced/specialization courses:
 - a. 60-hour Selenium course with Core Java
 - b. ETL Testing
 - c. Advanced Mobile Testing
 - d. Advanced QTP
 - e. Any combination of a, b, c, d.
- Certification QA
 - a. QTP
 - b. ISTQB
 - c. Quality Center
- Healthcare and Finance specialization
 - a. Healthcare as a Domain Class
 - b. Healthcare BA [Business Analyst with specialization in Healthcare]
 - c. Healthcare QA [Business Analyst with specialization in Healthcare]
 - d. Healthcare QA [Quality Assurance or QA Testing]
 - e. Business analyst with Finance specialization.
 - f. Quality Assurance with Finance specialization

B. Java courses:

- a. Core Java
- b. Advanced Java
- C. Combination of Core Java and Advanced Java

C. Microsoft Courses:

- a. Dot Net
- b. Microsoft Business Intelligence [MS BI]
- c. Sharepoint
- d. MS SQL Server

D. SAP Courses:

- a. SAP FICO
- b. SAP MM
- c. SAP HR
- d. SAP BO
- e. SAP BI
- f. SAP HANA

E. Oracle Courses:

- a. Oracle Financial
- b. Oracle DBA
- c. PL/SQL

F. Other Courses:

- a. Hadoop
- b. Hadoop with Java
- c. Salesforce
- d. Project Management (PMP)
- e. Maximo
- f. Tabeau
- g. Informatica
- h. Cognos

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