



Quality Assurance – Advanced Automation Testing

The focus of the course is to impart practical-oriented training in Automation Testing.

We emphasize on interactive sessions with experienced trainers with many years of practical exposure in leading Quality Assurance programs. Students will learn the topics by taking part in forum-like discussions about the topic of the day, rather than the trainer delivering the information in the classic lecture style. Classes are incremental which means that each class takes off from where it was left from the previous day. It is strongly advised that all classes be attended as there will be tests each day and assignments are given during the class. Students are expected to send completed assignments to the training team who will then assess them and provide constructive feedback.

Duration:

Approximately 25 hours, class time with roughly 100 hours of study and homework expected of students.

Timings:

All week nights except Tuesdays, 8 PM to 9 PM EST (Timings and class frequency will be finalized in the intro class).

Material:

Course material is provided in PDF and word documents for future reference.

Format:

Classes are delivered in online conferences, using GoToMeeting software.

Lab Access:

A server with preloaded software will be provided for the students to work on during the duration of the course as well as one month after completion of the course at no additional cost. Requests for additional access can be discussed on a case to case to basis.

Placement Assistance:

We are a placements agency that specializes in placing candidates in projects. We monitor the progress of trainees in the classes and offer contract-based projects to trainees who do well in classes. We help them in preparation of resumes. We

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conduct mock interviews for them to help prepare for the actual client interviews down the line.

Access to future classes:

Students who feel they could not get the benefit of the classes to the fullest can attend future classes after they finish their current classes with a nominal cost. Access will be provided on a case to case basis.

Certifications:

Assistance to prepare for the certification exams is offered during the classes as after the classes are completed. Guidance and advice on the best certification for the individual is offered and links to registration and scheduling will be provided.

Expectations from participants:

Attendance:

We expect a 100 % attendance. This helps the trainer to focus on classes rather than spending time with students who miss classes.

Certification:

Students are advised to register for QTP certification while still taking part in the classes and schedule them with not much gap after they complete the course. Certifications add value to the resume and give confidence to the candidate to face the client interviews. They also motivate the students to cover all the objectives of the certification, some of which may be covered during the course.

Assignments:

Completion of assignments given in the class in a timely manner is very important. This gives the students an opportunity to verify their understanding of the topics covered during the classes. They can also be creative and offer their own solutions and get feedback from the evaluators who are experienced in the industry and offer constructive feedback. Completion of assignments also provides us to identify students who are ready for placements.

Etiquette:

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We will offer a forum for discussions but advise the students to not be critical or argumentative with other students. Proper online etiquette is offered and expected.

Dress code:

Formal dress code is mandatory. Students are monitored by surveillance cameras and those who violate a formal dress code will be expelled from the course immediately and will be imprisoned indefinitely in the prison closest to their respective location.

Automation testing is briefly introduced during our manual testing course but we will cover basics again for the benefit of students who had not attended the basic course.

Specifically we discuss

What is Automation?

Where is the need for automation?

What scenarios are ideal for automation?

Automation vs Manual testing

Course Content

- Recovery scenarios
(Exception handling)
- Descriptive programming
- Loops
- Logical operators AND, OR, <>
- Environment variables
- Reusable functions

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- Arrays, Split function
- String functions (Instr, strComp)
- Integration of QTP and QC
- Highlight the object in application
- Reporter.Report Event
- Excel files opening and closing through code
- Results writing in excel file
- FSO operations
- GetRowProperty
- Wait vs Synchronization
- Import Sheet and Export sheet
- Smart identification
- Cint
- Left and Right functions
- GetRowCount
- QTP scripts execution through Windows scheduler
- Batch runs
- QTP test cases executions report from QC
- Conversion of manual test cases to QTP test cases

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- SetNextRow method
- GetCurrentRow method
- Regular expressions
- Random Number
- Debug viewer usage
- Breakpoints usage
- Calling of actions
- Switching over different licenses
- Run time settings through code
- Global (Shared) / Local Repository
- Object Spy
- Function vs Sub
- BPT introduction
- Database checkpoint disadvantages
- Types of frameworks
- Coding standards and naming Standards
- Folder structure in QC
- Generation of QTP test cases reports through QC
- GetCellData from a WebTable

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- OR manager
- Save movies to QTP results file
- DataBase testing
- Timer, Start Transaction
and End transaction
- ExitRun and Exit loops
- SystemUtil.Run
- Len property
- Trim
- Now
- Option explicit
- QTP library file extension types
ex: vbs, .txt, .qfl

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