



Fundamentals of Test Automation

Learn to build solid test automation the right way in this one-day, hands-on course designed for professionals in development and testing roles.

- Understand the principles of successfully implementing test automation
- Learn the types of tests that can be automated
- Understand how to properly plan your test automation effort
- Learn how to use test frameworks and other necessary tooling
- Integrate your automated tests into your continuous integration pipeline

Build Solid Test Automation the Right Way

One of the tenets of being successful in test automation is to build solid engineering practices at the beginning; and this course is designed to help you do just that. The *Fundamentals of Automation* course covers everything from introducing the basics of test automation - including definitions, benefits and misconceptions, to planning for automation in an agile environment. Along the way we'll explain the various automation test types and techniques including UI, API, Database, Unit, and Function vs Non-Functional testing. You'll also learn how to select the right approaches to best suit the needs of your organization.

Using a hands-on approach, our experienced instructors will illustrate proper techniques for building maintainable automated tests using frameworks. We will also cover Behavior-Driven Testing (BDD) and Cucumber.

This course also teaches you how to develop your own test automation strategy and get the most out of your tests, as well as integrating them into a continuous integration (CI) process.

Who Should Attend

This course is ideal for those in developer and testing roles who need to learn automation or improve their existing automation knowledge. The course features hands on exercises to

illustrate the topics discussed and provides students an opportunity to learn by doing. A working laptop with proper administrative privileges is required for this class.

Course Outline:

Introduction

- Introduction to test automation
- The value of test automation
- Misconceptions
- Automation ROI

Agile Testing

- Principles of agile testing
- Agile testing roles

Test Automation Fundamentals

- Test automation frameworks
- Unit testing
- UI testing
- Selenium basics
- Appium basics
- The Page Object Model
- API testing
- System and Acceptance testing
- Behavior Driven Development
- Using Cucumber

Database Testing

- Managing test data
- What to test
- Database test strategy

Database Migration and tools

- Managing test data with Flyway
- Virtualization

Non-Functional Test Automation

- Performance testing
- Security testing
- Recovery testing

Test Automation Strategy

- Why automate
- What to automate
- Best practices
- Continuous Integration and Delivery
- Tool selection
- Test planning

Class Schedule:

Day 1: 12:30pm-4:30pm ET/9:30am-1:30pm PT

Day 2: 12:30pm-4:30pm ET/9:30am-1:30pm PT

Day 3: 12:30pm-4:30pm ET/9:30am-1:30pm PT

Price:

\$1495

Course Fee Includes:

- Easy course access: Attend training right from your computer and easily connect your

audio via computer or phone. Easy and quick access fits today's working style and eliminates expensive travel and long days in the classroom.

- **Live, expert instruction:** Instructors are sought-after practitioners, highly-experienced in the industry who deliver a professional learning experience in real-time.
- **Valuable course materials:** Courses cover the same professional content as our classroom training, and students have direct access to valuable materials.
- **Rich virtual learning environment:** A variety of tools are built in to the learning platform to engage learners through dynamic delivery and to facilitate a multi-directional flow of information.
- **Hands-on exercises:** An essential component to any learning experience is applying what you have learned. Using the latest technology, your instructor can provide hands-on exercises, group activities, and breakout sessions.
- **Real-time communication:** Communicate real-time directly with the instructor. Ask questions, provide comments, and participate in the class discussions.
- **Peer interaction:** Networking with peers has always been a valuable part of any classroom training. Live Virtual training gives you the opportunity to interact with and learn from the other attendees during breakout sessions, course lecture, and Q&A.
- **Convenient schedule:** Course instruction is divided into modules no longer than four hours per day. This schedule makes it easy to get the training you need without taking days out of the office and setting aside projects.
- **Small class size:** Live Virtual courses are limited in small class size to ensure an opportunity for personal interaction.

Upcoming Dates:

Live Virtual Classroom	April 16–April 18, 2019	\$1495.00
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