

Scripting/Programming Fundamentals

For those with little or no programming experience, learn programming skills using VBScript to prepare for other testing-related programming classes. Topics include variables, constants, if/then statements, looping structures, arrays, file operations, and automation testing.

Who should take this course?

This course can be taken by anyone without programming experience, but it is taught with a testing slant. It is ideally suited for testers who wish to become familiar with how programs are created or desire to learn how to automate testing. Those wanting to learn about VBScript in general may also want to take this class.

Course Objectives

- Explain the strengths and weaknesses of test automation.
- Use good programming practices.
- Describe the language features found in the most common programming languages.
- Use basic programming concepts to create simple programs.
- Demonstrate how programming relates to test automation.
- Become familiar with the basics of installation and documentation testing.
- Learn how various common software testing tools (as well as general application tools) are used in testing.

Course Details

- Length: 21 hours
- Format: Classroom
- Prerequisites: Familiarity with Windows

The above prerequisites are considered to be the basic skills and knowledge needed prior to taking this class. Instructors will assume your readiness for the class materials and will NOT use class time to discuss prerequisite materials.

Note: To earn a class certificate which is a necessary step in achieving the Software Test Engineer certificate of completion, students must attend 80% of class hours, participate in class discussion and successfully complete class exercises.



Course Contents

Automation Overview

- What is test automation
- Putting test automation to work
- Pitfalls of automation
- Automation tools

Fundamentals of Programming

- Languages/Applications and the O/S
- Compiled vs. interpreted languages
- Writing good code
- I/O statements
- Constants
- Variables

Decision Making

- Operators and expressions
- If/Then statement
- Select statement

Iterative Statements

- For loop
- While loop
- Do loop

Modular Programming

- Subroutines
- Functions
- Manipulating arrays
- Reading/Writing text files