

<h2 style="text-align: center;">Programming Foundations for Software Testers</h2>		<h3 style="text-align: center;">Topical Outline</h3>
<ul style="list-style-type: none"> • Understand basic programming concepts • Know the properties of fundamental data types • Understand the various arithmetic operators available and the order of operations • Be familiar with using relational and logical operators to test for conditions • Understand how to use looping statements to control program iteration and flow • Understand functions, function definitions, when to use functions, built-in functions and global vs. local variables • Know how to read from and write to external files • Be familiar with Boolean/Logical/Relational Operators • Actively participate in technical discussions with the programmers • Be able to create basic automated testing scripts 		<p>Programming Language Basics</p> <ul style="list-style-type: none"> ➤ Introduction and Terms ➤ Variables and Constants ➤ Data types ➤ I/O <p>Understanding Operators</p> <ul style="list-style-type: none"> ➤ Arithmetic Operators ➤ Relational Operators ➤ Logical Operators ➤ Boolean Expressions <p>Control Statements and Loops</p> <ul style="list-style-type: none"> ➤ Branching Statements ➤ Looping Statements <p>Algorithms/ Functions</p> <ul style="list-style-type: none"> ➤ Writing functions ➤ Calling functions with and without arguments ➤ Functions calling functions ➤ Reading/Writing external files <p>More Efficient Testing</p> <ul style="list-style-type: none"> ➤ Programming implementation drives testing ➤ Debugging to isolate the real problem ➤ HTML basics ➤ Applying knowledge to automated test tools
<p>Description</p> <p>The Programming Foundations for Software Testers hands-on course provides students with a working knowledge of Programming Languages to be more effective in testing and automating the testing of software applications. This course provides a foundation of knowledge of programming concepts, and provides hands-on experience specifically for testers.</p>	<p>Audience, Prerequisites</p> <p>The course is intended for beginner or intermediate testers, analysts and engineers who need to develop a working knowledge of programming concepts to support their testing and/or automation efforts. The class exercises can be done in either “C” or Visual Basic.</p> <p>Course length: 2 days</p> <p>Course format: lecture plus individual and group exercises and discussions.</p>	