Software Testing – Manual

New to software testing? Get an excellent, extensive introduction and start on the path towards an exciting, highly in-demand career in the software industry. Learn about the importance of the Software Development Life Cycle, the basic principles underlying software testing and how testing fits into software development. Explore the root cause of a defect and its effect. Through hands-on experience, you’ll learn about Test Data and Environment, Testing Deliverables, Back-end Testing, SQL and Test Management Tools. Upon completion, you’ll have the knowledge needed to pass the ISTQB Foundation Level Exam. The 64-hour course will provide instruction and hands-on training for the students to feel confident and begin working in the industry as junior tester or QA Analyst.

Course Outline Detail

1. Software Development Life Cycle (SDLC)
2. Fundamental concepts in software testing, including software testing objectives, process, criteria, strategies, and methods.
3. Various software testing issues and solutions in software unit testing, integration, regression, and system testing.
4. Techniques and skills on how to use modern software testing tools to support software testing projects.
5. Planning a test project, design test cases and data, conduct testing operations, manage software problems and defects, generate a testing report.
6. Advanced software testing topics, such as object-oriented software testing methods, and component-based software testing issues, challenges, and solutions.
7. Understand software test automation problems and solutions.

Audience and Prerequisites

This course is designed for individuals who have some basic computer experience and wish to prepare as a Software Tester or Quality Assurance Analyst. Related experience might include familiarity with Microsoft Windows, Microsoft Office and using the Internet browsers.

Course Outline

Software Quality Assurance and Testing Basics

- What is Software Quality Assurance (SQA), SQA vs. Software Testing
- The profession of SQA
- Knowledge and skill areas for SQA and Testing
- SDLC – Software Development Life Cycle
- Patterns or Approaches of SDLC

Requirements Analysis and more about testing basics

- What are software requirements
- Types of software requirements
- Analysis Techniques
- Requirements Quality Analysis
- STLC – Software Testing Life Cycle
- Defect life cycle
- Types of testing, black box, white box, sanity testing, regression testing

**Test Planning & Documentation**

- Test plan
- Test case
- Traceability Matrix
- Test Reports

**Functional Testing**

- SQL Query Joins
- Front end testing
- UNIX testing and LINUX testing to validate servers and log files
- Quality Center | HP ALM – application life cycle management tool to cover requirements, test plan, Test case, defects and test lab, resources and dashboard module.
- Security Testing

**Backend Testing, Security Testing & Mobile Testing**

- SQL queries to validate database
- Code review
- Log Files review
- Security Testing
- Mobile Testing

**Load, Performance, Stress, Security, Mobile Testing**

- Analysis of load, performance and stress testing
- Deep issues of performance
- Performance testing tools