



# Certificate of Completion

*This is to certify that*

**Svetoslav Slavkov**

*successfully completed our*

## Quality Assurance Course

*from September 2019 to December 2019*

**Demonstrating** ★★☆☆☆ **excellent results**

*This certificate is only valid, when checked with the original at:*

<http://swift.bg/certificates/svetoslavslavkov/0f1414ac.pdf>

*You can review the course program on the second page of this certificate*

## Quality Assurance Course Program

- 1. Basic principles and concepts of software testing**  
What is software testing? Why is it necessary? Basic principles.  
Introduction to fundamental test process. Concept of software testing
- 2. Software development models**  
Introduction to different types of software models (Waterfall, Agile, etc.)  
Pros and Cons of every model. Criteria for choosing a certain model
- 3. Types and levels of software testing**  
Description and classification of test levels.  
Introduction to every test level (Component, Integration, System, Acceptance testing), their techniques and approaches
- 4. Quality characteristics of functional and non-functional testing**  
Description and classification of test types.  
Approaches in different types of testing. Static techniques in test process
- 5. Testing techniques**  
Development of a software test. Introduction to categories of test techniques  
Description of black-box, white box and exploratory testing
- 6. Test cases and scenarios**  
Description, structure and types of test cases  
Result from test case execution. Test case maintenance.  
What is a test set? What is a test scope?
- 7. Working with a test management system (HP Quality center)**  
Writing of test cases. Management, maintenance and monitoring of test cases and test sets
- 8. Description of basic principles of test planning and control**  
What is test planning and estimation? How to create a test plan?  
Monitoring and control of test process. Risk management.  
Regression testing - choosing best test cases for manual and automation tests
- 9. Monitoring and management of defects**  
What is a bug life-cycle. Defect status.  
Introduction to systems which follow the bugs life cycle
- 10. Exercise with project management and monitoring system (JIRA)**  
What is JIRA. Exercise with JIRA
- 11. Introduction to SQL**  
Basic principles and work with databases. CRUD operations.  
Creating more complex SQL requests. Stored procedures
- 12. Introduction to HTML and XML**  
Introduction to HTML and XML and their syntax. Working with Firebug
- 13. Web service testing**  
What is a web service? Web service testing with different tools  
Introduction and work with Soap UI
- 14. Performance and Load testing**  
What is Performance testing? What is Load testing?  
Testing with JMeter. Analysis of the results
- 15. Automation testing**  
Introduction to Automation testing and the benefits of it.  
What is XPath. Introduction and work with Selenium IDE
- 16. Final Exam**

The course duration is 60 hours