

Certified Software Quality Analyst (CSQA)[™]

Course Outline



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What Modules are covered?

Module 1 – Introduction to Software Testing

- 1) Testing Concepts
- 2) Project vs. Product
- 3) Objectives of Testing
- 4) Introduction to QA and QC
- 5) Roles and Responsibilities of a Tester

Module 2 – Software Development Life Cycle

- 1) What is SDLC?
- 2) Requirements Collection
- 3) Design Phase
- 4) Coding
- 5) Testing (Static & Dynamic)
- 6) Delivery and Maintenance

Module 3 – SDLC Models

- 1) Waterfall Model
- 2) Iterative Model
- 3) V-Model
- 4) Prototype Model
- 5) Agile Model

Module 4 – Software Testing Methodologies

- 1) White Box Testing
- 2) Black Box Testing
- 3) Grey Box Testing

Module 5 – Levels of Testing

- 1) Unit Testing
- 2) Integration Testing
- 3) System Testing
- 4) Unit Testing

Module 6 – Types of Testing

- 1) Functional Testing
- 2) End to End Testing
- 3) Ad-hoc Testing
- 4) Sanity Testing
- 5) Smoke Testing Vs Sanity Testing
- 6) Smoke Testing
- 7) Re-Testing
- 8) Regression Testing
- 9) Exploratory Testing
- 10) Usability Testing
- 11) Security Testing
- 12) Compatibility Testing
- 13) Performance Testing
- 14) Alpha Testing
- 15) Beta Testing
- 16) Compatibility Testing

Module 7 – Software Testing Life Cycle

- 1) Test Plan
- 2) Test Analysis
- 3) Test Case Design
- 4) Test Case Execution
- 5) Defect Reporting
- 6) Test Closure

Module 8 – Test Case Design Techniques

- 1) Equivalence Partition Strategy
- 2) Boundary Value Analysis
- 3) Decision Table Testing
- 4) State Transition Technique
- 5) Error Guessing

Module 9 – Defect Management

- 1) Defect Life Cycle
- 2) Types of Defects
- 3) Priority of Defects
- 4) Software Configuration Management