

Certified Software Quality Analyst (CSQA)

1. Introduction to Software Testing
 - Testing Concepts
 - Project Vs Product
 - Objective of Testing
 - Introduction to QA and QC
 - Roles and responsibilities of a Tester
2. Software Development Lifecycle
 - What is SDLC
 - Requirement Collection
 - Design Phase
 - Coding
 - Testing (Static and Dynamic)
 - Delivery and Maintenance
3. SDLC Models
 - Waterfall Model
 - Iterative Model
 - V- Model
 - Prototype Model
 - Agile Model
4. Software Testing Methodologies
 - White Box Testing
 - Black Box Testing
 - Grey Box Testing
5. Levels of Testing
 - Unit Testing
 - Integration Testing
 - System Testing
6. Types of Testing
 - Functional Testing
 - End to End Testing
 - Ad -Hoc Testing
 - Sanity Testing
 - Smoke Testing vs Sanity Testing
 - Smoke Testing
 - Re- Testing
 - Regression Testing
 - Exploratory Testing
 - Usability Testing
 - Security Testing
 - Compatibility Testing

- Performance Testing
- Alpha Testing
- Best Testing

7. Software Testing Life Cycle

- Test Plan
- Test Analysis
- Test Case Design
- Test Case Execution
- Defect Reporting
- Test Closure

8. Test Case Design Techniques

- Equivalence Partition Strategy
- Boundary Value Analysis
- Decision Table Testing
- State Transition Technique
- Error Guessing

9. Defect Management

- Defect Life Cycle
- Types of Defects
- Priorities of Defects
- Software Configuration Management