

## **Certified Software Tester - Foundation Level (CSTFL)**

1. The Fundamentals of Testing
  - Why is testing necessary?
  - Harm caused by defects in software
  - Root causes
  - Testing and quality assurance
  - What is testing?
  - General testing principles
  - Fundamental test process
  - The psychology of testing
2. Testing throughout the software life cycle
  - Software development models
  - Test levels
  - Objectives objects and targets of testing
  - Functional and non-functional testing
  - Structural and change-related testing
  - Confirmation, regression and maintenance testing
3. Static techniques
  - Reviews and the test process Test levels
  - Typical formal review process
  - Different types of review: informal review, technical review, walkthrough and inspection
  - Static analysis tools
4. Test design techniques
  - Identifying test conditions and designing test cases
  - Equivalence partitioning
  - Boundary value analysis
  - Decision tables
  - State transition diagrams
  - Use case testing
  - Statement and decision coverage
  - Control flows using statement testing and decision testing
  - Experience based techniques
  - Choosing techniques

## 5. Business Analyst Skills Introduction to Business

- Introduction to Business Process Analysis
- Why Business Analysis
- Roles and responsibilities of a Business Analyst
- Key concept of business analysis
- What is domain knowledge?
- How to adapt with different domains

## 6. Test management

- Test organization, planning and estimation
- 'Standard for Software Test Documentation' (IEEE 829)
- Exit criteria
- Test progress monitoring and control
- Metrics and reporting
- Configuration management
- Risk and testing
- Incident management
- Incident reporting

## 7. Tool support for testing:

- Types of test tool
- Effective use of tools
- Potential benefits and risks
- Introducing tools