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