Certified Software Testing Analyst (CSTA)

1. Testing Fundamentals and Process
   - Quick Overview on Testing
   - Testing Lifecycle Process
   - Testing in the SDLC
   - Test Monitoring, Planning and Control
   - Test Analysis
   - Test Design
   - Test Implementation
   - Test Execution
   - Evaluating Exit Criteria and Reporting
   - Test Closure Activities

2. Test Management for the Test Analyst
   - Test Progress Monitoring and Control
   - Distributed, Outsourced and Insourced Testing
   - Test Analyst's Tasks in Risk-Based Testing

3. Testing Software Quality Characteristics (Part 1)
   - Test Techniques
   - Specification-Based Techniques
   - Defect-Based Techniques
   - Experience-Based Techniques
   - Cause-effects graphs
   - Equivalence partitioning
   - Boundary Value
   - Decision Table
   - State Transition
   - Pair wise Testing
   - Case based Testing
   - Mind Mapping
   - Test Matrix
   - Error Guessing Technique
   - Checklist-based Technique
   - Exploratory Testing
   - Attacks

4. Testing Software Quality Characteristics (Part 2)
   - Quality Characteristics for Business Domain Service
   - Testing Characteristics
   - Typical Defects
   - Testing in the Life Cycle

- Approaches, Usability Requirements and User's Expectations
5. Review Preparation
   - Using Checklists in Reviews
   - Analyze a use case or user interface and identify problems
   - Analyze a requirements specification
   - Types of review
   - Roles and Responsibilities in Reviews
   - Informal Review
   - Management Review
   - Analyze Requirements Specification or User Story

6. Defect Management
   - Detecting Defects
   - Defect Report Fields
   - Non-functional Defects
   - Defect Classification
   - Identifying, Gathering and Recording Classification
   - Root Cause Analysis

7. Test Tools and Automation
   - Test Tools
   - Test Analyst's role in Keyword Driven Automation
   - Troubleshooting
   - Testing Tools Approaches
8. Software Inspection Process
   - Software Inspection
   - Testing Methods and Strategies
9. Usability Testing
   - Attribues
   - Usability Testing Process
   - Client/Server Testing

10. Additional Test Design Technique
    - Static Analysis
    - Dynamic Analysis