



COURSE CONTENT

I. Introduction to Software Testing

II. Software Development Life Cycle (SDLC)

1. Waterfall methodology
2. Agile-Scrum methodology
3. RUP methodology

III. Software Testing Life Cycle (STLC)

1. What is a Test Plan with example
2. What is a Test case with example
3. What is a Test Scenario with example

IV. Quality Center

1. Project Set Up:
 - a. Quality Center Architecture and components.
2. Requirements:
 - a. How software requirements relate to test cases
 - b. How to create a test requirement.
 - c. How to add requirements to the Quality Center project.
3. Create Tests:
 - a. Creating manual tests.
 - b. Adding automated tests to your project.
 - c. Linking tests to requirements.
4. Analyze Project Progress:
 - a. The different kinds of Quality Center graphs and reports
 - b. Using the Document Generator to create reports in
 - c. Microsoft Word
5. Other Quality Center Utilities:
 - a. Using filters for your graphs and reports.
 - b. Different report formats
6. Run Tests and Analyze Results:
 - a. Creating and running test sets.
 - b. Analyzing test results.
 - c. Scheduling test runs
 - d. Defining test dependencies and running tests conditionally
7. Report and Track Defects:
 - a. Understanding the defect life cycle.
 - b. Reporting and tracking defects
 - c. Analyzing the Defect Table

V. Quick Test Professional (Functional Testing Tool)

1. Introduction to QTP



2. Recording, running and analyzing scripts
3. Designing the scripts
4. Debugging the scripts
5. Creating checkpoints
6. Standard checkpoints
7. Text checkpoints
8. Text area checkpoints
9. Bitmap checkpoints
10. Object Spy
11. Object repository
12. Parameterize test scripts
13. Split Actions
14. Reusable actions

VI. Healthcare Terminology

1. What is HIPAA and EDI X12
2. Key EDI Transactions
3. US Health Insurance Model Diagrams

VII. EDI Structure and Basic flow

1. EDI sample example
2. Control number and Transaction number
3. EDI Loops

VIII. HIPAA EDI 837 Transaction

1. Process of 837 Claim
2. Types of 837 transaction and Format
3. EDI 837 Syntax

IX. 837 Implementation

1. Beginning of Hierarchical transaction
2. Different Loops and Segments of 837 Transaction (Submitter loop, Receiver loop, etc.)

X. Example of EDI 837 Transaction

XI. HIPAA 835 Transaction

1. 835 transaction structure
2. 835 transaction with header n trailer
3. Transaction set header
4. Loops and Segments of 835 Transaction (Payer Loop, Payee Loop, etc.)

XII. Example of EDI 835 Transaction

XIII. 834 Transaction



Masterex

1. Business use and definition
2. Linking a dependent to subscriber
3. Transaction set header
4. Loops and Segments of 834 Transaction (Sponsor loop, Payer Loops, etc.)

XIV. Example of EDI 834 Transaction

1. Business scenario 1
2. Business scenario 2
3. Business scenario 3
4. Business scenario 4

XV. Claim status request 276 and response 277

1. Important segments of 276/277
2. Loop and Segments of 276/277

XVI. 4010 to 5010 differences

1. 837 institutional
2. 837 Professional
3. 837 dental
4. 835 remittance
5. 270/271
6. 276/277
7. 278

XVII. Application-1

1. Backend processing flow of Application-1
2. EEC(HEHK) flow chart
3. Application-1 Login screen Shots
4. HIQK Module explanation with Screenshots
5. HEHK Module explanation with Screenshots
6. HEHK Module explanation with Screenshots
7. HZMK Module explanation with Screenshots

XVIII. Application-2

1. Login screen shot for Application-2
2. Basic Flow Structure
3. Screen shots of Group, Provider, Billing and Subscriber/Member Modules
4. Claims processing Module Screen Shot
5. Claim Status

XIX. ICD 9 to ICD 10 conversion

1. Diagnosis codes
2. Procedure codes



XX. Different Kinds of testing

1. Black box Testing
2. Functional Testing
3. Regression testing
4. SIT Testing
5. UAT Testing

XXI. SQL Queries using SQL Server Management Studio

1. Join (Inner, Outer, Left and Right joins) Commands
2. Functions (Min, Max, Avg., etc.)
3. Group by, Having and Order by Commands
4. DML Commands
5. DDL Commands
6. DCL Commands
7. Constrains and Cardinality

XXII. Methodologies.

1. Waterfall,
2. Agile/Scrum
3. RAPID Application Development