TEXAS IT Training
BUSINESS ANALYSIS
Training Syllabus

UNIT I – Requirement Gathering and Management.

1. Introduction to Business Analysis. *(Lecture)*

2. Role of a Business Analyst and Expectations. *(Lecture)*

3. Software Development Life Cycle Methodologies. *(Lecture &Slides))*
    - Intro to Water Fall Model.
    - Intro to Spiral Model.
    - Intro to Agile & Scrum.
    - Rational Unified Process – Basics – What Why and How
        - Inception
        - Elaboration
        - Construction
        - Transition

CLASS ACTIVITY – 1 – Risk Assessment

4. Requirements Management. *(Lecture &Slides)*
    - What is a Requirement?
    - Types of Requirements.
    - Requirements Model.
    - How to Gather and Plan Requirements?
    - Planning Requirements for Design, Development and Testing.

CLASS ACTIVITY 2 – Gap Analysis.

5. Requirement Management Tool – Rational Requisite Pro. *(DEMO) & Exercise*
    - Creating Requirement Types
    - Creating Requirement in Documents
    - Creating Requirements Metrics (Traceability, Attribute, Tree)
    - Reporting Requirements with Rational SoDA. *(DEMO)*

CLASS ACTIVITY 3 – Problem Analysis and Business Process Modeling.

6. Business Artifacts. *(Slides)*
    - Business Requirement Document / Vision Document.
    - FDS/ Functional Requirements.
    - SI/UI/GUI Requirements.
    - Supplementary Requirements.
    - Glossary.

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UNIT II – Design, Analysis and Business Modeling.

1. Unified Modeling Process
    a. Business Use Case
    b. System Use Case
    c. Use Case Realization
    d. Use Case Documentation

2. USE Case Components. *(Lecture &Slides)*
    a. Actors.
    b. Entity.
    c. Relationships.
    d. System Boundary.
    e. Usecase.
    f. Sub System.
    g. Preconditions, Triggers, Basic Flow, Alternate Flow, Exception Flow and Post – conditions.

3. Unified Modeling Language (UML). *(Lecture &Slides)*
    a. Class Diagram.
    b. Use Case Diagram.
    c. Sequence Diagram.
    d. Activity Diagram.
    e. Swimlanes in an Activity Diagram
    f. Collaboration Diagram.
    g. State chart Diagram.

4. Modeling Tool –
    a. MS – Visio 2003. *(DEMO & Exercises)*

5. USE Case Class Exercises.
    a. USECASE Diagram
    b. Sequence Diagram
    c. Activity Diagram
    d. State chart Diagram

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UNIT III – Business Analysis Essentials.

1. Concepts of Object Oriented Programming Techniques. *(Lecture &Slides)*
2. Fundamentals of Prototyping. *(Lecture &Slides)*
3. Conducting a JAD Sessions. *(Lecture &Slides)*

CLASS ACTIVITY 5 – JAD – BA, SMEs, QA.

4. Testing Methodologies, Testing Types and Test Tools.
    a. Defect Resolution Process. *(Lecture)*
    b. Mercury Quality Center. *(DEMO) & Exercise*
5. Introduction to Six Sigma Methodology. *(Lecture & Slides & Exercise)*
6. Business Process Modeling and Process Mapping. *(DEMO) & Exercise*
7. Basics of Database Management. *(Lecture & Slides & Exercise)*
    a. Class Activity 6 – Enterprise Data Modeling
8. Data Flow Diagrams (DFDs) *(DEMO) & Exercise*
    a. Class Activity 7 – Data Flow Diagramming
9. Introduction to Web Services – *(Lecture &Slides)*
    a. XML – Dot.net Framework
10. Neuro Linguistic Programming. *(Lecture &Exercise) Only available for F2F Class*