



# TEXAS IT TRAINING

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## BA Training Syllabus 2012

### **Unit 1 Business Analysis – Introduction, Requirements Management and Business Process Modeling**

1. Introduction to Business Analysis (L)
2. Role of a Business Analyst & Expectations (L)
  - a. Project Deliverables and Artifacts. (Slides)
    - i. Project Charter and Project Scope Document.
    - ii. Business Process Model / Context Diagram
    - iii. Business Requirement Document.
    - iv. Functional Requirements Document.
    - v. USE CASES.
    - vi. Business Rule Catalog.
    - vii. Wireframes and Storyboards
3. Software Development Life Cycle (L)
  - a. Introduction to SDLC
  - b. Different Types of SDLCs
    - i. Waterfall
    - ii. Rational Unified Process
    - iii. Agile & Scrum
4. Business Process Modeling (L)
  - a. Introduction to BPMN 2.0
    - i. BPMN Notations
    - ii. Types of Business Process Diagrams
  - b. Why do Business Process Modeling?
  - c. Workshop 1– Introduction to the Business Scenario**
  - d. Workshop 2– Create a Business Process Model**
5. Requirements Management (L)
  - a. What is a Requirement?
  - b. Types of Requirements.
  - c. Requirements Management Plan.
  - d. Requirements Gathering Techniques
    - i. Stakeholder Interview
    - ii. Stakeholder Survey
    - iii. Workshop 3– Identify Stakeholders**
    - iv. Gap Analysis
    - v. Workshop 4– Perform GAP Analysis**
  - e. Writing Testable Requirements.
  - f. Workshop 5– Create a Business Requirements Document**
6. Understanding Requirements Risks, Risk Mitigation and Communication(L)
  - a. Types of Requirements Risk
  - b. Risk Mitigation Technique
  - c. Risk Communication and Preparation
  - d. Workshop 6– Identify Risk and Mitigation Strategies**



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## Unit 2 - Systems Analysis & Design, UML 2.0, & Wireframing

1. Introduction to UML 2.0 (L)
2. Different Types of UML Diagrams (L)
  - a. Use Case Diagram
  - b. Sequence Diagram
  - c. Collaboration Diagram
  - d. Class Diagram
  - e. Activity Diagram
  - f. Statechart Diagram
3. Developing Use Cases from Business Requirements(L)
  - a. Identify Actors and Events
  - b. **Workshop 7– Identify Use Cases**
  - c. **Workshop 8– Develop Use Case diagrams**
  - d. **Workshop 9– Develop Use Cases**
4. Developing Functional (System) Requirements from Use Cases (L)
  - a. Writing Functional (System)Requirements
  - b. Identifying System Dependencies
  - c. **Workshop 10– Create Functional Requirements Document**
5. Developing Wireframes and User Interface Design (L)
  - a. Introduction to Wireframing and Usage
  - b. **Workshop 11– Create Wireframes and User Interface**

## Unit 3 – Information Technology Essentials

1. IT Networks and Data Sharing Protocols (L)
  - a. Types of Enterprise Networks
    - i. LAN
    - ii. WAN
    - iii. VPN
    - iv. Cloud Computing
    - v. Open Sources Computing
    - vi. Wireless
    - vii. Client Server Architecture
    - viii. Internet
    - ix. Intranet
    - x. Extranet
  - b. Types of Servers
    - i. Application Servers
    - ii. Database Servers
    - iii. Web Servers
    - iv. File Share and Data
  - c. Data sharing Protocols & Security
    - i. Web Services
    - ii. Network Security
    - iii. Data Encryption and Security
    - iv. Data Anonymization and Data Masking
2. Conducting JAD Sessions (L)
3. Quality Assurance (L)
  - a. Types Testing
  - b. Test Plan
  - c. Test Cases
  - d. **Workshop 12– Create Test Cases using the Functional Requirements**
4. Database Management (L)
  - a. Introduction to Relational Database Management System
  - b. **Workshop 13– Create Data Model**
5. Resume Preparation and Interview Planning (L)
6. Business Domains (L)
  - a. Healthcare Systems
  - b. Insurance
  - c. Mortgage
  - d. Credit Card
  - e. Banking & Finance
7. **Workshop 14– Final Presentation**