

CETPA INFOTECH PVT. LTD. CURRICULUM OF BA SYLLABUS

Preparatory Module 0 :IT Industry Fundamentals for Business Analysts (Applicable for those who do not belong to IT industry)

- Section 1 : Software Development Life Cycle
- Section 2: Software Development Methodologies – Water Fall, Iterative, Agile, etc.
- Section 3: Types of Software Projects – e-Commerce, Migration, Product Customization, Maintenance etc.
- Section 4: Software Testing, Test Plans, Test Automation, Black Box and White Box Testing
- Section 5: IT Implementation
- Section 7: Software Licensing, Subscription and Sale Models
- Section 8: Project Development Vs. Product Development

Module 1: IT Business Analysis Essentials

- Section 1 : Activities of an IT Business Analyst
- Section 2 : Analysis, Business Analysis, IT Business Analysis defined
- Section 3: Objectives of Business Analysis
- Section 4: Business Analysis Core Concept Model
- Section 5: Who is an IT Business Analyst
- Section 6: Business Analysis Levels or Views - Process, Project, Enterprise and Industry
- Section 7: Business Analysis Framework and Techniques
- Section 8 : IT Business Analysis Software
- Section 10: IT Business Analyst Skills
- Section 11: IT Business Analyst Career Path and Salaries
- Section 12: Meet some real Business Analysts

Module 2 : Business Process Analysis

- Section 1: What is a Business Process
- Section 2: Critical Analysis of a Business Process
- Section 3: Business Process Analysis Sparx System Framework
- Section 4: Business Process Mapping & Flow charting
- Section 5: As Is – To Be Analysis For a Business Process
- Section 6: Business Process Mapping and Modelling Frameworks
- Section 7: Business Process Mapping and Modelling Software
- Section 8: Business Process Re-Engineering & Re-Design
- Section 9: Business Process Automation, Disinter mediation and Re-intermediation
- Section 10: Business Process Simulation

Module 3: Requirements Process – The Core of IT Business Analyst Activity

- Section 1: What is a Requirement
- Section 2: Attributes of Requirements
- Section 3: Importance of Requirements for IT Projects
- Section 4: Types of Requirements : Business, Enterprise, Solution, Stakeholder, Transition
- Section 5: Functional and Non Functional Requirements
- Section 6: Overview of Requirements Engineering and Management
- Section 7: Requirements Basics : Mapping, Modelling, Traceability Matrix, Tracking
- Section 8: Business Process Re-Engineering & Re-Design
- Section 9: Important Requirement Process Steps : Elicitation, Analysis, Documentation, Validation, Management
- Section 10: Requirement Software Companies - JIRA, Rational Requisite Pro

Module 4: Stakeholder Analysis

- Section 1: Stakeholder Definition
- Section 2: Importance of Stakeholder
- Section 3: Stakeholder Identification – Onion Diagram
- Section 4: Stakeholder Identification – Wheel
- Section 5: Stakeholder Classification – Power Influence Matrix
- Section 6: Stakeholder Engagement Techniques – Power/Influence Vs Interest
- Section 7: Stakeholder RACI Chart, its preparation through Visio
- Section 8 : Stake Holder Persona
- Section 9 : Stakeholder Alignment and Sponsorship
- Section 10: Managing Internal stakeholders
- Section 11 : Preparing Stakeholder map through Excel

Module 5: UML – Unified Modelling Language

- Section 1: History of UML , its founding fathers and role of OMG (Object Management Group)
- Section 2: UML Diagrams –UML Structure and UML Behavior Diagrams
- Section 3: Important UML Diagrams for IT Business Analysts
- Section 4: Overview of UML Structure Diagrams
- Section 5: Class Diagrams
- Section 6: Activity Diagrams
- Section 7: Use Case Diagrams
- Section 8: State Machine Diagrams
- Section 9: Sequence Diagrams
- Section 10: Deployment Diagrams
- Section 11: Other UML Diagrams

Module 6: Microsoft Visio

- Section 1: Importance of MS Visio
- Section 2: MS Visio Versions and Add Ons
- Section 3: What Visio can do for IT Business Analysts

- Section 4: Starting MS Visio
- Section 5: Various Visio File Types and Extensions
- Section 6: Visio Ribbons, Menu and Pages
- Section 7: Utilizing, Creating and Mastering Visio Shapes
- Section 8: Creating and Utilizing Visio Stencils
- Section 9: Mastering Visio Connectors
- Section 10: Mastering Visio Pages
- Section 11: Preparing Wireframes & Screen Mockups
- Section 12: Preparing Website maps
- Section 13: Preparing Flowcharts in Visio
- Section 14: Preparing UML Diagrams in Visio
- Section 15: Preparing Business Process Model and Notation Diagrams
- Section 16: Automating Visio through VBA
- Section 17: Recording Macros in VBA
- Section 18 : Preparing Organisation Chart in Visio
- Section 19: Preparing project timeline diagram through Visio
- Section 20 : Preparing Stakeholder RACI chart through Visio

Module 7: Business Process Model and Notation

- Section 1: What is BPMN
- Section 2: Origin of BPMN -BPMI (Business Process Management Institute) and OMG (Object Management Group)
- Section 3: BPMN Notations
- Section 4: Importance of BPMN
- Section 5: Types of Process Modelling – Process Maps, Models, Descriptions
- Section 6: BPMN Elements : Flow Objects, Data, Swim Lanes, Connecting Objects, Artifacts
- Section 7: BPMN Softwares : Bizagi, Oracle BPM, Calypso
- Section 8: BPMN Diagrams : Process, Choreographies and Collaboration
- Section 9: Model Validation, Process Validation, Process Simulation through Bizagi
- Section 10 : Live Process monitoring through MS Visio

Module 8: Business Analysis Planning and Monitoring

- Section 1: Plan the Business Analysis Approach
- Section 2: Plan Stakeholder Engagement
- Section 3: Plan Business Analysis Governance
- Section 4: Plan Business Analysis Information Management
- Section 5: Identify Business Analysis Performance Improvements
- Section 6: Plan Requirements Management Process
- Section 7: Manage Business Analysis Performance

Module 9: Requirements Elicitation & Collaboration

- Section 1: Elicitation : What and When
- Section 2: Elicitation Tasks

- Section 3: Prepare for Elicitation
- Section 4: Conduct Elicitation Activity
- Section 5: Document Elicitation Results
- Section 6: Confirm Elicitation Results
- Section 7: Manage Stakeholder Collaboration

Module 10: Requirements Analysis

- Section 1: Requirements Analysis : What and When
- Section 2: RA : The Business Analyst Tasks
- Section 3: Prioritize Requirements
- Section 4: Specify and Model Requirements
- Section 5: Define Assumption and Constraints
- Section 6: Verify Requirements
- Section 7:

Module 11: Wireframes and Prototypes

- Section 1: Wireframes. Mockups and Prototypes Essentials
- Section 2: Preparing Wire-frames through MS Excel
- Section 3: Wireframe preparation exercise through Balsamiq 3.5
- Section 4: Prepare mockup of Android Payments App
- Section 5: Prepare Apple iPhone home screen mockup
- Section 6: Lowfi and Hif-fi Mockups
- Section 7: Prototyping through Powerpoint

Module 12: Solution Assessment and Validation

- Section 1: Solution Assessment and Validation : What and When
- Section 2: Asses Proposed Solution
- Section 3: Allocate Requirements
- Section 4: Asses Organizational Readiness
- Section 5: Define Transition Requirements
- Section 6: Validate Solution
- Section 7: Evaluate Solution Performance
- Section 8: Requirement Management

Module 13: Enterprise IT Analysis

- Section 1: Analysis Revisited - Industry, Enterprise, Project , Process
- Section 2: What is an Enterprise
- Section 3: Enterprise - Mission, Vision, Values, Strategies, Objectives
- Section 4: Enterprise IT Analysis – What, When, Why, How, By/For Whom
- Section 5: Enterprise IT Analysis Activities & Task List
- Section 6: Defining the Business Need
- Section 7: Assessing Capability Gaps
- Section 8: Determining Solution Approach
- Section 9: Define the Solution Scope
- Section 10: Preparing Business and Enterprise IT Architecture
- Section 11: Enterprise IT Analysis Useful Techniques – Alfred Chandler's Strategy Tribology, McFarlan's IT Grid, Gartner's Hype curve
- Section 12: Enterprise IT Analysis Frameworks – Zach man's, TOGAF

Module 14: Agile Business Analysis

- Section 1: Agile Software Development – An Overview
- Section 2: Agile Manifesto and Philosophy
- Section 3: Agile Methodology
- Section 4: Agile Software Development Lifecycle
- Section 5: Scrum
- Section 6: Managing Sprint Planning, Daily SCRUM, Sprint Review & Sprint Retrospectives
- Section 7: Three Roles in Scrum : Scum Master, Product Owner and Development Team
- Section 8: Preparing Product Backlog, Sprint Burn Down Charts
- Section 9: Preparing Agile Project Charter
- Section 10: Xterme Programming, Kaanban
- Section 11: Writing User Stories
- Section 12: Story Points and Estimation on SCRUM projects

Module 15: SQL and Database Concepts for the IT Business Analyst

- Section 1: Database concepts and the 3rd Normal Form, Primary Key, Foreign Key and Database design

- Section 2: SQL Data Definition Language Statements : Create, Alter and Drop
- Section 3: SQL Data Manipulation Language Statements : Insert, Update and Delete
- Section 4: SQL Data Query Language : Select
- Section 5: SQL DCL : Grant and Revoke
- Section 6: SQL TCL Commit, Savepoint, Rollback
- Section 7: Basic DBA concepts

Module 16: Software Test Management & User Acceptance Testing for the IT Business Analyst

- Section 1: Software Testing and its importance
- Section 2: Black Box, Box and and Grey Box Testing
- Section 3: Manual and Automation Testing
- Section 4:Automation Testing Tools : Silk, Load runner
- Section 5: Successful User Acceptance Testing for the IT Business Analyst
- Section 6: Software Testing at the client site for every release
- Section 7: Managing client / development team relationship under environments where a release has failed

HEAD OFFICE: 200 Purwavali , 2nd Floor, (Opp. Railway Ticket Agency),

Railway Road , Ganeshpur , Roorkee – 247667,

Ph.No.: 09219602769,

01332-270218 Fax - 1332 – 274960

CORPORATE OFFICE: D-58, Sector-2, Near Red FM. Noida -201301, Uttar Pradesh

Contact Us: +91-9212172602 , 0120-4535353

BRANCH OFFICE: 401 A, 4th Floor, Lekhraj Khazana, Faizabad Road, Indira Nagar,

Lucknow-220616 (U.P.) Ph. No: +91-522-6590802, +91-9258017974,

BRANCH OFFICE: 105, Mohit Vihar, Near Kamla Palace, GMS Road, Dehradun-248001, UK

Contact: +91-9219602771, 0135-6006070

CETPA[®]
Because Knowledge Matters
ISO 9001:2015 Certified

Toll Free- 1800-8333-999 (from any network)