



Use Cases for Requirements Elicitation and Analysis

2 – Day Course and Workshop

Course Number: NT-230

Conventional wisdom says you'll never reach your destination if you don't know where you're going. However, all too often, that's exactly how projects are implemented, most often as a result of the business and technical staff being unable to communicate their needs to each other. Extensive re-work, scope creep, missed deadlines, low morale, and required features being dropped from software releases are just some of the issues that can be traced back to incomplete or incorrect requirements.

A Business Analyst's main responsibility on a project is to gather, organize, analyze, and specify requirements in a format that is useful to their business stakeholders and the technical developers. A use case is a highly effective means to communicate with subject matter experts and to document the resulting requirements. This course focuses on the knowledge and skills that business analysts need to build clear, concise and effective use cases.

The course will provide students with the fundamentals of the business analyst role and prepare them with the competencies they will need to employ to understand and build use cases. DEA's Business Analysis curriculum closely follows the IIBA's Business Area Body of Knowledge (BABOK). As the BABOK is updated, our courses are also updated to follow and reflect the industry best practices. Our courses are developed and delivered by professionals with extensive hands-on experience in business analysis covering many different industries.

We use an integrated case study developed and refined over the last 15+ years to provide a better understanding of how the deliverables support the full Requirements Life Cycle from requirements gathering to test scenarios.



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Course Objectives:

After taking this course students will be able to:

- Understand the role and task of the Business Analysts in Requirements Analysis
- Use the IIBA Bodies of Knowledge and apply them to a full Requirements Life Cycle Process
- Use techniques to elicit and document requirements from Subject Matter Experts using the Use Case technique
- Understand the components of Use Cases and why they are used
- Understand scenarios and how to develop them
- Build and develop Use Case models and their descriptions

Who Should Attend?

- Entry-level Business Analysts and their managers
- Self-taught Business Analysts
- Quality Assurance Professionals
- IT Project Managers
- System Analysts interested in expanding their skills to include Business Analysis



Use Cases for Requirements Analysis

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Introduction to Use Cases for Requirements Analysis

- Why are Requirements Critical?
- Requirements Gathering Needs Both Words and Pictures
- Understand the Role and Tasks of the Business Analyst
- The IIBA Bodies of Knowledge Areas

All Roads Lead to Use Cases

- Business Level Use Cases vs Application Level Use Cases
- Strategies for Discovering Requirements
- What is a Use Case?
- What is Unified Modeling Language, UML?
- Nature of UML Models
- Use Case Approach

Building Use Case Diagrams

- Use Case Diagram Components
 - Actors
 - Use Cases
 - Associations
 - Package
- Defining the Project Scope
 - Using a Context Diagram
 - Documenting User Interfaces and System Interfaces
 - System Description
- Worksession: Using the case study, Identify Use cases and build a Use Case Diagram

Documenting Use Cases

- Use Case Templates
 - Main Path
 - Alternate Paths
 - Interactions
 - Change Log
 - Assumptions
 - Pre- and Post-Conditions
- Worksession: Write a Use Case Description



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Creating Use Case Flows Using an Activity Diagram

- What is a Behavioral Model?
- What is an Activity Diagram?
- Building the Activity Diagram
 - Events
 - Action States
 - Action Transition
 - Fork and Join
 - Decisions
 - Org Units
 - Results
- Scenarios
- Worksession: Identify Scenarios

Using Project Results

- Use Cases to Build Testing Scenarios, Test Cases and Test Scripts

Wrap Up / Summary