



Course Description

The fundamental principles and techniques of developing software system requirements and test cases supported by traceability are introduced in this course. Students participate in exercises to discover the importance of documenting valid requirements and practice creating requirement elements that are useful, regardless of the process or system used to document and manage requirements for software development. The target audience for this course is information technology professionals that are involved in managing, gathering, documenting, using and testing software system development requirements.

Curriculum

- Introduction and agenda
 - Course objectives
 - The importance of requirements
- Eight competencies of a successful business analyst
 - Eliciting Requirements
 - Structured analysis
 - Testing
 - Business Process Reengineering
- Definition and Properties of a Good Requirements Specification
- Requirement writing guidelines and examples
- Exercise one: analyze a requirement
- Types of requirements
 - Functional (exercise two)
 - Performance
 - Interface
- Types of requirements (continued)
 - Logical database
 - Design constraints
 - Quality attributes
- Requirements development process
- Impact of requirements defects
- Exercise three: write a set of requirements
- Testing requirements
 - Testing process and stages
 - Test case contents
 - Exercise four: write some simple test cases
- Traceability matrix
 - Purpose
 - Example
- Course review and wrap-up