

Writing Excellent Requirements

An Orasi Training Course

Course Overview

This two-day, tool-independent course is focused on the development and maintenance of excellent requirements as a key component of software quality management. It also focuses on how to leverage baselined requirements for effective test case planning, design, and development. The course is taught by a certified Orasi instructor who will provide students with a tool-kit of practices, reinforced with practice sessions and group discussions which immediately can be used to improve the quality of requirements development and management in any organization.

The course begins by discussing how the project stakeholders can develop and baseline a shared vision of the planned software product or release. Software end user needs and workflow expectations are then discussed to ensure the requirements meet the needs of those who will ultimately use the software. Techniques will be discussed for deriving detailed, testable requirements from end-user workflows. The development of nonfunctional requirements is discussed, as well as their impact on the design, development, and testing of the planned software development effort.

Duration: 2 days

Class Limit: 20 students

Labs: Over 25% of class time

Prerequisite: None

Target Audience

- Requirement/business analysts
- Software end user representatives
- Quality assurance/testers
- Software designers and developers
- Project and program managers

Related Classes

- Apply Better Testing Practices
- HP ALM End User Basic Training
- HP Sprinter End User Training

Goals

- To bring together multiple stakeholders and groups at the same time, with the same instructor, to learn requirements engineering together and share each role's perspective.
- Software requirements development and management overview
- Effective requirements analyst and product champion collaboration
- Software requirements prioritization
- Use case overview and development
- Effective requirements interviewing
- Writing quality requirements
- Techniques for reviewing requirements
- Leveraging requirements for test planning and test case development
- Assuring software quality
- Integrating people, process, and technology The class will combine lecture, practice sessions, class discussions, and group discussions on requirements problems and solutions.

Agenda

- Requirements development activities
- Components of requirements engineering
- Requirements development/management boundary
- Levels of software requirements
- Business requirements
- Vision and scope template example
- User requirements
- Functional requirements
- Functional requirements hierarchy
- Business rules
- Nonfunctional requirements
- Software quality attributes
- Software constraints
- External interfaces
- From needs and preferences to code and tests
- Requirements/business analysts
- The need for customer involvement



- Product champions/subject matter experts
- Software requirements prioritization
- Use case overview
- Use case template components
- Use case scenarios
- The path to excellent requirements
- Writing quality requirements
- Characteristics of quality requirements
- Common types of requirements ambiguity
- Examples of avoiding requirements ambiguity
- Reviewing requirements
- Types of requirements reviews
- Effective requirements interviewing techniques
- Leveraging requirements for test planning and development
- From use case scenarios to test case scenarios
- Assuring software quality
- Types of software testing
- Software development “V” model
- Integrating people, process, and technology



Objectives:

During this course, students will learn how to:

- Recognize and classify different types of requirements information
- Implement “good practices” for requirements elicitation, analysis, specification, validation, and management
- Apply the use case technique for eliciting user requirements
- Critically evaluate requirements statements for ambiguity and other problems
- Leverage requirements as a key component to effective and efficient software test planning, design, and execution

For more information or to schedule this course, email training@orasi.com or call 678-819-5300.

