



Fundamentals of Requirements Gathering and Analysis

Course Length

2 Days

Course Outline

Introduction

Historical Perspective
Software Development Lifecycles
Benefits

Requirements

Definitions
Attributes of Well-Formed
Requirements
Organization
Traceability
Knowing When to Stop

Gathering Techniques

Product Concept Descriptions
Voice of the Customer
Competitive Analysis
Joint Application Design
Storyboarding
Use Cases and Scenarios

Use Cases

The Unified Modeling Language
System Boundaries
Actors
Services
Interactions
Knowing When to Stop

Scenarios

Identifying Branch Points
Knowing When to Stop

Course Summary

This comprehensive workshop will teach attendees tried and true techniques for requirements gathering and analysis. The workshop will explore the basis for well-formed requirements and describe the techniques that may be used to gather and capture those requirements. A series of in-class group exercises serve to reinforce these concepts and techniques. Notational and tool issues will also be addressed.

Who Should Attend

System engineers, software architects, software engineers, test engineers, technical managers, project managers and marketing managers who are interested in learning how requirements gathering and management processes can help to ensure the correct product is built.

Prerequisites

Some experience with a software development program is helpful.

Benefits

After attending this workshop, attendees will be able to:

- Ask the correct questions from stakeholders in the requirements process
- Employ a number of requirements gathering techniques
- Generate well-formed requirement statements
- Organize requirements cohesively
- Understand requirements traceability and its application
- Perform use case analysis to elicit functional requirements
- Identify different scenarios which may yield error handling requirements
- Begin to assimilate requirements management into a software development process