



## Essential Software Requirements

- Take away powerful techniques for identifying, documenting, and verifying requirements
- Understand the best of both the formal Plan-Driven and Agile requirements approaches
- Use the Product Vision as a roadmap to success
- Discover how to elicit and document system requirements
- Learn new skills with practical, interactive exercises

Clear, concise, and accurate requirements will help avoid late, over budget, or cancelled projects. Too much documentation or inflexible requirements can bog down a project. Find the right mix of formal written requirements and agile documentation—user stories, use cases, prototypes, and visual models—that works best for you.

This practical, hands-on course will provide a flexible requirements development approach customized to your environment and the skills needed to successfully discover, analyze, communicate, and evaluate requirements.

### Powerful Techniques for Identifying, Documenting, and Verifying Requirements

Many acknowledge that their processes need some improvement but feel helpless to do much about the problem. In this course you will learn how to fill the critical information gaps and freshen up those stale requirements processes in a highly practical way. Take away a new awareness of what "good" requirements are really about and the skills to help you complete your project on time and on budget.

### The Best of Formal Plan-Driven and Agile Requirements Development Approaches

Learn how the plan-driven and agile development approaches differ in terms of timing, depth, and documentation of these valuable references. The plan-driven approach values product and process documentation. The agile approach values individuals and collaboration, working software, and the ability to swiftly accommodate change.

### Practice New Skills with Interactive Exercises

This course offers interactive exercises to provide practical experience and improve your requirements development skills. Use a real-world case study to identify stakeholders,

develop a vision statement, and produce concise, accurate, and usable requirements documentation. Find ways to transfer the newly learned techniques back to your organization's requirements process and take away a framework for understanding business and user needs to develop a suitable software solution.

## Who Should Attend

Whether you are a requirements or business analyst, software engineer, developer, test engineer, user, stakeholder, or a member of the QA staff responsible for gathering, analyzing, documenting, confirming, and maintaining requirements, this course is for you.

### **Course Outline:**

Overview of Essential Software Requirements

Types of requirements

The benefits of "good" requirements

When and how much to document requirements

The WebPhlyx Case Study

Exercise - Create requirements for the case study

Development Approaches and Requirements

Plan-Driven—values, core practices, and documentation

Agile—values, core practices, and documentation

The Product Vision

Product vision—the foundation of the project effort

Understanding business requirements

The role of the product champion

Identifying and involving stakeholders

User classes and user representatives

Exercise - Identifying project stakeholders

Developing the product vision document

Exercise - Create a Product Vision statement

The System Requirements

User, functional, and non-functional requirements and business rules

Mandatory vs. preferred requirements

Exercise - Specifying non-functional requirements

Business rules—facts, constraints, action enablers, computations, and terms

Information sources and the discovery process

Formal documentation and tools

Plan-driven documentation

Exercise - Create part of a System Requirements Specification

Agile documentation

Exercise - Create user stories and a use case  
Visual models

Exercise - Create a decision table

Exercise - Create a state-transition diagram

Organizational Processes

Working together

Joint Application Development (JAD)

Reviews

Exercise - Creating and revising ambiguous requirements

Course Summary

**Class Schedule:**

Sign-In/Registration 7:30 - 8:30 a.m.

Morning Session 8:30 a.m. - 12:00 p.m.

Lunch 12:00 - 1:00 p.m.

Afternoon Session 1:00 - 5:00 p.m.

*Times represent the typical daily schedule. Please confirm your schedule at registration.*

**Course Fee Includes:**

- Tuition
- Course notebook
- Letter of completion

**Upcoming Dates:**

Your Location

---