



## **Course 327: Structured Use Case Description Workshop (1 day)**

### **Course Description...**

Students who have successfully completed ROI's *Writing Functional Requirements with Structured Use Case Descriptions* course (#326), have an opportunity to reinforce the concepts learned in class through a series of workshops devoted to more advanced topics – acceptance testing and project estimation – using a fully developed requirements specification as a baseline. In addition, students will participate in a lessons learned seminar, where they will share their experiences thus far in applying the concepts of Course 326 to their own work.

### **Prerequisites...**

Successful completion of Course 326, Writing Functional Requirements with Structured Use Case Descriptions.

### **Who should attend...**

This course is designed for those who have completed course 326, as indicated above.

### **Learning Objectives...**

- See how the concepts of course 326 are applied to a fully developed requirements specification
- Obtain experience in creating acceptance test cases from use case descriptions
- Obtain experience in working with use case points to estimate effort and schedule of a project
- Participate in a lessons learned seminar where students discuss their experiences in using the concepts of course 326

**See next page for a detailed course outline...**



## Course Outline...

### Introduction and Overview

Course Objectives

### Unit 1: Introduction

Unit Objectives

#### Review of requirements documentation concepts

- Requirements specification structure
- Context diagram
- Workflow diagram
- Functional and non-functional requirements
- Structured use case description

#### Examining a sample specification

- The LUIS case study
- Actors
- Workflow
- Use cases

#### Advanced Topics

- Acceptance testing
- Project estimation

#### Unit Summary and Best Practices

### Unit 2: Acceptance Testing

Unit Objectives

#### Testing Concepts

- Equivalence classes
- Boundary value testing

#### System Testing vs. Acceptance Testing

- Tasks of the testing process
- Roles and responsibilities

#### Creating Acceptance Test Cases From Use Case Descriptions

- Setting up pre-conditions
- Selecting values for data elements
- Role of the design specification

*Workshop: Writing Acceptance Test Cases for LUIS*

### Unit 3: Estimation

Unit Objectives

#### Estimation Techniques

- Function points
- Use case points
- Other estimation techniques



## **Function Point Definition**

- External inputs
- External outputs
- External inquiries
- Internal logical files
- External interface files

## **Estimating Schedule and Effort**

- Schedule
- Effort
- Estimation for various life cycle phases

*Workshop: Function Point Calculation and Estimation for LUIS*

## **Unit 4: Lessons Learned Seminar**

*Student Presentations*

*Discussion*

## **Unit 5: The Bottom Line**

**Course Summary**

**Highlights**