

# Requirement Elicitation and Management

## (One day Workshop)

### About the Course

It is well known that improper requirements are a major cause of project failure, irrespective of size and domain of the project. Studies show that failure to identify and manage requirements accounts for approximately that 60-75% of all defects encountered in a project. Also, requirement defects would cost about 100 times as much to correct if identified in an operational system.

This one-day course is designed to understand how to gather proper 'requirements' for a project and to manage them during project execution. The course begins with technically what the term 'requirements' mean and its associated issues. Differences and overlap between requirements development and requirements management is addressed.

The activities of requirements elicitation and the different techniques of elicitation are covered. Elements of requirements analysis and specification, together with the contents of a typical Requirements Specification document are discussed, followed by mechanism to manage changes to requirements and requirements traceability.

### Workshop objectives

- ❖ Understand the term 'requirements' technically
- ❖ Familiarize with requirements development and management
- ❖ Learn the techniques of requirements elicitation
- ❖ Understand details of requirements analysis and requirements specification
- ❖ Learn the requirements change management process and traceability

### Workshop Contents

The following topics would be covered in the one day workshop with exercises and case study to understand the concepts.

#### Introduction

#### Requirements Engineering and Issues

- Desired requirement characteristics
- Issues in requirements engineering

#### Requirements Development vis-à-vis Management

#### Requirement Gathering and Elicitation

- Activities in requirements gathering
- Requirement elicitation techniques, such as

- Interviewing and questionnaires
- Requirements workshops
- Brain Storming and idea reduction
- Storyboards
- Use Cases
- Requirements elicitation guidelines

### **Requirement Analysis**

- Requirement Analysis
- Requirement Specification
- Contents of Requirement Specification document

### **Managing Changes and Traceability**

- Handling requirement changes
- Requirement traceability

### **Review and conclusion**