

COURSE DESCRIPTION

This course teaches students how to write better requirements. The importance of requirements in the different phases of the systems (or software) engineering life-cycle is highlighted. Details (including boilerplates) are given on how to write requirements of various kinds and levels (such as user, system, sub system and also use cases). In addition important 'advanced' aspects such as requirements attributes, the reviewing and the traceability are covered.

WHO SHOULD ATTEND?

This course is for almost everyone who is somehow involved with requirements: project managers / directors, systems and software engineers, marketing, tester, quality engineers, etc.

BENEFITS OF ATTENDANCE

Students will:

- ✓ Know that requirements management is important.
- ✓ Understand that requirements should be seen in the context of life-cycles and processes (cf. changing, reviewing and testing)
- ✓ Be better able to identify stakeholders
- ✓ Have improved on gathering user requirements and organizing requirements
- ✓ Know / recognize requirements problems and be able to solve them.
- ✓ Be able to write better requirements (in particular, using boiler-plates)
- ✓ Know how to use attributes (in particular, to support testing and traceability)
- ✓ Be a better requirements reviewer
- ✓ Realize better traceability.

PREREQUISITE

None, a part from the willingness to learn ;-)

WRITING BETTER REQUIREMENTS

1-2 DAYS

COURSE OUTLINE

1. THE CASE FOR REQUIREMENTS MANAGEMENT

Why requirements management?
What are the high-level benefits?

2. REQUIREMENTS LIFE-CYCLE

Requirements are alive and are important within different phases of the systems engineering life-cycle!

3. IDENTIFY STAKEHOLDERS

Who are your Stakeholders?
How do we get a complete list?

4. GATHER USER REQUIREMENTS

How do we get our (user) requirements?
What are the sources?
What are use cases / operational scenarios?

4. A) SOURCES OF REQUIREMENTS

What are the approaches and techniques to get our user requirements?

4. B) USE CASES / OPERATIONAL SCENARIOS

A model which can be used to get our (user) requirements!

5. ORGANIZE REQUIREMENTS

Some guidelines to organize requirements.
Special case of constraints.

6. DETAILS OF WRITING GOOD REQUIREMENTS

Problems with requirements / sets of requirements / structure of requirements 'document'
Some guidelines and boiler-plates for writing good requirements.

7. REQUIREMENTS ATTRIBUTES (CATEGORIES)

Further characterizing requirements
Using classification schema to organize requirements.

8. REVIEWING

More details on the 'Review' part.

9. TRACEABILITY

More details on the 'Traceability' part.