



# Requirements Engineering

## Summary

The importance of high quality software requirements, long recognized as the foundation from which all software work follows, cannot be overstated. Arriving at a shared vision of the product to be developed is one of the greatest challenges facing the software project team, and customer involvement is among the most critical factors in software quality. This course provides participants with an opportunity to explore and experience methodologies, tools, and techniques for eliciting, analyzing, specifying, prioritizing, validating/verifying and managing requirements in modern software development organizations.

The course is composed of lectures and class exercises with ample opportunity for participant questions and discussions. Much of the class time is devoted to exercises in which participants, typically working in small teams, practice the skills being taught.

## Audience

This course is designed for (future) requirements engineers, software managers and project managers.

## Criteria

Course candidates should have a background and some years experience in software engineering. The "Foundation" courses are highly recommended.

## Duration

2 days (4 modules).

## Remarks

None.



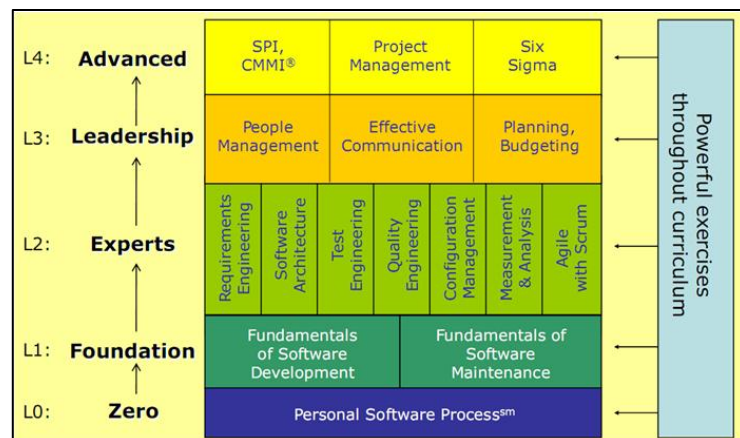
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## Our Software Engineering Curriculum





# Program

## Module 1:

- What is requirements engineering?
  - o Importance
  - o Sources of requirements
  - o Requirements engineering decomposition
- Types of requirements
  - o Functional requirements
  - o Non-functional requirements

## Module 2:

- Requirements elicitation
  - o Stakeholders
  - o Difficulties
  - o Elicitation techniques
- Requirements analysis
  - o Notation techniques

## Module 3:

- Requirements specification
  - o Requirements on requirements
  - o Common problems
- Requirements prioritization
  - o Prioritization techniques
  - o Common sense
  - o Analytical Hierarchy Process
  - o Quality Function Deployment

## Module 4:

- Requirements validation/verification
  - o Techniques
- Requirements management
  - o Identification
  - o Traceability



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During the course, 1-2 challenging exercises in each module are used to demonstrate the discussed concepts and techniques. Example solutions to all course exercises are provided.

SE-CURE AG can also customize this course or any of our other standard courses to meet your exact in-house training needs and specifications. For example, class exercises can be tailored to include actual examples from your organization in order to make the training more relevant to your environment.