



Requirements Elicitation Course

Requirements origin – who, what, and how

By Dr. Leah Goldin

Introduction:

This course introduces the concepts and methods required for effective and efficient requirements gathering of large software intensive systems. It aims to develop a broad understanding of the discipline of Requirements Elicitation. It seeks to complement this with a detailed knowledge of techniques in an appropriate engineering and management context.

Objectives:

At the end of this course attendees will be able to:

- Understand the benefits of Requirements Engineering processes
- Identify the requirements stakeholders
- Apply techniques to extract requirements
- Prioritize requirements

Audience:

Product and Project Manager, System Architect, System Engineer, Analyst, V&V and QA

Challenges & Method:

1. Requirements context

We'll start by learning about requirements problems and repercussions related to evolving systems and products, customer-supplier interactions, etc.

2. Requirements principles

The requirement elicitation is only a part of the Requirements Engineering discipline. We create a common ground of concepts and language for professional Requirements Engineering.

3. Requirements stakeholders

Who are the requirements stakeholders? What is their contribution to requirements discovery? What are the critical success factors for effective requirements discovery

4. Requirements Elicitation

The purpose of requirements elicitation is initial extraction of the requirements. What methods and techniques are used for extracting and gathering requirements? How can you encourage customers to better express their needs?



Agenda

1. Requirements introduction
 - a. Requirements context
 - b. Software products evolution
 - d. Requirements traps
2. Requirements concepts and principles
 - a. Requirements definitions
 - b. Requirements quality
 - c. Requirements classification
 - d. Requirements specification
 - e. Requirements levels & traceability
 - f. Requirement engineering
3. Requirements stakeholders
 - a. Identifying the requirements stakeholders
 - b. The stakeholders' model
 - c. Stakeholders' analysis
4. Requirements Elicitation
 - a. The requirements elicitation problem (scope, understanding, volatility)
 - b. Requirements questions
 - c. User requirements description
 - d. Requirements elicitation framework
 - e. Requirements prioritization
 - f. Requirements elicitation techniques

About the Instructor:

Leah Goldin, CEO of Golden Solutions <http://thegoldensolution.com/>

Dr. Goldin is an independent consultant specializing in Requirements Engineering, System Engineering and Software Engineering, Process and Quality.

In her career, Dr. Leah Goldin developed embedded systems, and filled various management and technical roles, including development, verification and integration, SQA and process improvement. The companies she has worked for include Rafael, IAI, MBT, Comverse, NICE Systems, NDS, Sapiens, Mercury/HP, Given Imaging, Orbotech, etc.

Dr. Goldin divides her time between consulting to high-tech companies and teaching; she is a senior lecturer in Afeka College at the Software Engineering and System Engineering departments, and was the Head of the Software Engineering Department at Shenkar College.

Dr. Goldin received her Ph.D. from the Technion Computer Science department, where her research focused on Requirements Engineering. She is a senior member of IEEE, and currently serves as the Chair of the Israeli Chapter of the IEEE Computer Society.