Requirements Management Course

Requirements changes impact –where, how, and when

By Dr. Leah Goldin

Introduction:

Whether you are responsible for bringing a product to market or for rolling out strategic infrastructure projects, your goal is to ensure that the end product complies with the original market and/or business requirements. Only effective Requirements Management (RM) allows you to maintain end-to-end traceability and visibility throughout the product/project lifecycle.

- Can you effectively trace release content back to customer needs?
- Are you in control of change impact? Does feature creep delay your time to market?
- Will your next product release or infrastructure roll-out bring the expected business added values?

This one-day course and workshop will introduce you to the latest RM techniques and best practices so that—for your next product or project—your organization will be able to answer "yes" to these questions and reap the benefits

Objectives:

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

- Understand the benefits of the RM process
- Identify the RM stakeholders
- Identify good requirements
- Apply techniques to trace requirements
- Evaluate your RM tool options

Audience:

Product Managers, Project and R&D Managers, System Architects/engineers, QA & Test Engineers

Challenges & Method:

1. Requirements introduction and context

   We'll start by learning about requirements problems and repercussions that focus on issues such as inherent issues of software products evolution or customer-supplier interactions.

2. Requirements concepts and principles

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

3. Requirements traceability

   What are the requirements levels? Who are the requirements roles and what is their responsibility?

4. Requirements management

   The purpose of requirements management is to assure that the project takes appropriate steps to ensure that the set of requirements agreed-on is well managed to support planning and execution of the project. This includes understanding of requirements, commitments, and managing changes to requirements along with identifying inconsistencies.

Agenda:

- Requirements traceability
  a. Requirements concepts and principles
  b. Requirements context
  c. Analysis of requirements traceability problem
- Requirements management
  a. Requirements levels & roles
  b. HW/SW specifications
  c. Requirements changes
- Requirements processes (CMMI, FDA, …)
  a. Requirements Management
  b. Requirements Development
- RM tools & infrastructure
  a. RM tools capabilities
  b. Evaluation criteria for RM tools

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.