



Title:	"FROM QUALITY TO MATURITY – THE SYSTEMS ENGINEERING LEAN METHODOLOGY FOR THE 21ST CENTURY"	Date:	February 21st 2013
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Synopsis

The systems engineering basic concepts

- Participants presentation, their experiences and their skills
- The requirements given by the global crisis to systems engineering
- Inadequacy of the Twentieth Century philosophy for the new engineering market
- The basic concepts of a lean and efficient philosophy for project lifecycle management

Origin of the quality concepts and their actual use

- At the source of the quality concepts
- The concept of requirements
- Quality that's not quality, and the so-called "total quality"
- Continuous improvement and excellence
- Maturity and Capability Maturity Model
- A critique of the methodologies
- Heaviness and redundancy of methodologies

Quality and maturity for what: system safety, availability, reliability maintainability

- A classification of the applications
- General criteria for safety, availability and reliability of the system
- Security

The methodological maturity

- The methodological maturity
- Evolution: from quality to maturity
- Mature use of standards, the reiterative project lifecycle
- Similarity and redundancy of the standards (different but very similar): ECSS, MIL498, CMMi, ISO12207, ISO15504, ISO15288, ISO 27001, 17779
- The Reiterative Project LifeCycle

Requirements management plan and project risks assessment

- Analysis of the project context, stakeholders and specificity of the project
- Choice and customization of the standards to be applied
- Risks assessment and management
- Planning the management of requirements, their realization, their verification

Tools supporting the project life cycle management

- The key factors of the growth on the maturity path
- The relational database as a support to project lifecycle management

Traceability and change management

- The total traceability
- Lean and efficient change management
- The profit of the systems engineering: conservazion, management and increase of the corporate know-how, capability to make reliable estimations, capability to manage the changes

Test engineering and problems management

- Planning the test engineering and integration activities
- Grouping the test cases and designing test procedures
- Execution of the test procedures: role of the test engineer, importance of creating an environment suitable for the systematic execution of tests and for the analytical logging of problems
- Management and problems solving



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Teachers	<p>The lead trainer, Adriano V. Autino, besides working since more than 35 years in the field of systems engineering, is a passionate space activist and student of the space age philosophy. He is author of some original concepts, on the theme of the value of human life. In 1997 he founded the web magazine Technologies of the Frontier. He published the book "Earth is not sick: she's pregnant!" and "Tree Theses for the Space Renaissance", he organized two international conventions and wrote hundreds of articles on the topics of human expansion outside our birth planet. He is the president of the Space Renaissance International, member of the Moon Society board of directors and of other pro-space organizations. Please also see: http://www.linkedin.com/in/adrianoautino http://www.spacerenaissance.org/</p>
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