



Title: “FROM QUALITY TO MATURITY – THE SYSTEMS ENGINEERING LEAN METHODOLOGY FOR THE 21ST CENTURY”		Date: February 21st 2013	
Code: PLM.001		Rev. 1.0	Page 1 / 2

What is	This seminar provides knowledge of an original methodology in systems engineering, a discipline around which the interest is continuously growing up, even more at this time of generalized recessive crisis. The objective of systems engineering methodology is to help improve the high technology systems design processes, effectively managing any type of project, in any type of industry or research environment. The system engineering relations to, conflicts with and differences with project management are deeply discussed, and the best practices for harmonizing the two matters are indicated and explained. A primary role, for a lean and effective systems engineering management, is plaid by the supporting software tools, that can significantly improve the efficiency and maturity of the design processes. When the efficiency and cost effectiveness of design activities are of big relevance, improved capability and maturity raise their importance as well, namely: reliability in estimating the costs for proposed contracts, better managed requirements changes during development, verification and validation of the developed systems, reduction in overall time spent for design, development, integration and testing, which can translate into necessity for economic survival.
For who	Project managers, QA managers, designers, system analysts, test engineers, systems engineers, requirements managers.
Type	Classroom-type instruction and interaction.
Duration	8 hours (1 day) - introduction 24 hours (3 days) - advanced stage
Where	The seminar can be held at the customer premises, with logistics supplied by the customer, or it can be organized by ASE LTD, grouping together several customers having similar requirements and profile of the attendees.
Benefits	After participating to this seminar, the attendees will own the basic concepts needed for: <ol style="list-style-type: none"> 1) Setting up a Systems Engineering Division in their corporate: this is an advanced concept, that assigns to systems engineering the same relevance of the project management. 2) Prepare to manage and engineer a complex project. 3) Harmonize different needs, i.e. financial issues with technical quality issues, collecting skills and making the proper plans for requirements management and test engineering. 4) Estimate the risks tied to the project development, and draft a mitigation plan. 5) Make integration and test engineering plan. 6) Choose software tools to support requirements management, test engineering, risk management and problems management. 7) Manage full traceability, along the whole project lifecycle, and manage changes in a lean and efficient manner.
Deliverables	Electronic copy of the materials used during the seminar: slides, documents, materials produced during exercises.
Compliance	The proposed essential methodology is the best practice required for a lean and efficient project lifecycle management, based on relational full integrated database. Compliant with ISO 12207 (ex MIL498); ISO 15288; ISO 15504; NASA SP-2007-6105; ISPE GAMP; ISO 31000; ISO/IEC 16085; ESA ECSS-M-ST-80C; SEI CMU NDIA 2009; PMI A Guide To Manage Project Risks And Opportunities; FDA CPG; AS 9100; ESA ECSS-Q-ST-80C; ESA ECSS-Q-ST-40C; US DoD MIL-STD-882D; NASA NPR-7120.5D; PMI PMBOK Guide.



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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. Since 1997 he runs the web magazine Technologies of the Frontier (http://www.tdf.it/). 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.</p> <p>Please also see: http://www.linkedin.com/in/adrianoautino http://www.spacerenaissance.org/</p>
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Send us [your manifestation of interest for this seminar](#), you will be re-contacted, in order to:

- a) join an already scheduled session, *or*
- b) keep you in the list for a not yet scheduled session, *or*
- c) organize a session at your premises.

Please also specify:

- the seminar code(s) you are interested to:
- the number of participants to the class(es):
- skill and experience of the participants:
- your goals and expected benefits:
- where do you want the class(es) to be held:
- tell us your preferred planning: one day units, dates to be negotiated