



SYSTEMS APPROACH TO PROJECT MANAGEMENT

Course Descriptions

This course defines a holistic approach to project management for the development of new complex techno-centric systems. The emphasis is on the relationships and interconnections between project management processes and systems engineering processes for new complex systems. Specific topics include change management, strategy, project organization, team development, leadership styles, priorities, task development, scheduling, cost estimation, performance monitoring, constraint management, and project audits. Students apply these concepts on a project while working in teams. Mastery of these key tools is important for career development, as projects are a major approach for organizations to achieve their strategic goals.

Learning Outcomes

- Understand and be able to apply the systems approach to project management.
- Know the methodology of project planning, monitoring and control.
- Know how the methodology is applied.
- Be able to plan and validate plans for techno-centric systems.
- Be able to anticipate, plan and manage change in systems development

projects.

Who Should Attend?

- Managers and engineers who wish to sharpen their project management skills in managing the development of increasingly complex techno-centric systems.
- Managers looking for a better way to manage.
- Managers facing complicated problems.
- Managers wanting to improve their thinking and communication skills

Course Rates

Early Bird Rates: 2,700 CHF. Regular Rates: 3,000 CHF

Duration

4 days

Delivered By



Joe Kasser

Joseph Kasser has been a practicing systems engineer for almost 50 years and an academic for 20 years. He is a Fellow of the Institution of Engineering and Technology (IET), a Fellow of the Institution of Engineers (Singapore), the author of “Perceptions of Systems Engineering”, “Holistic Thinking: creating innovative solutions to complex problems”, “A Framework for Understanding Systems Engineering” and “Applying Total Quality Management to Systems Engineering” and many INCOSE symposia and other conference and journal papers.

He is a recipient of NASA's Manned Space Flight Awareness Award (Silver Snoopy) for quality and technical excellence for performing and directing systems engineering and other awards.

He holds a Doctor of Science in Engineering Management from The George Washington University.

He is a Certified Manager, a Chartered Engineer in both the UK and Singapore and holds a Certified Membership of the Association for Learning Technology.

He has performed and directed systems engineering in the USA, Israel and Australia. He gave up his positions as a Deputy Director and DSTO Associate Research Professor at the Systems Engineering and Evaluation Centre at the University of South Australia in early 2007 to move to the UK to develop the world's first immersion course in systems engineering as a Leverhulme Visiting Professor at Cranfield University.

He spent 2008-2016 as a Visiting Associate Professor at the National University of Singapore where he taught and researched the nature of systems engineering, systems thinking and how to improve the effectiveness of teaching and learning in postgraduate and continuing education. He is currently based in Adelaide, Australia.

His many awards include:

- National University of Singapore, 2008-2009 Division of Engineering and Technology Management, Faculty of Engineering Innovative Teaching Award for use of magic in class to enrich the student experience.
- Best Paper, Systems Engineering Technical Processes track, at the 16th Annual Symposium of the INCOSE, 2006, and the 17th Annual Symposium of the INCOSE, 2007.
- United States Air Force (USAF) Office of Scientific Research Window on Science program visitor, 2004.
- Inaugural SEEC "Bust a Gut" Award, SEEC, 2004.
- Employee of the Year, SEEC, 2000.
- Distance Education Fellow, University System of Maryland, 1998-2000.
- Outstanding Paper Presentation, Systems Engineering Management track, at the 6th Annual Symposium of the INCOSE,

1996.

- Distinguished Service Award, Institute of Certified Professional Managers (ICPM), 1993.

- NASSA Goddard Space Flight Center Community Service Award, 1990.

- The E3 award for Excellence, Endurance and Effort, Radio Amateur Satellite Corporation (AMSAT), 1981, and three subsequent awards for outstanding performance.

- Letters of commendation and certificates of appreciation from employers and satisfied customers including the:
 - American Radio Relay League (ARRL).
 - American Society for Quality (ASQ).
 - Association for Quality and Participation (AQP).
 - Communications Satellite Corporation (Comsat).
 - Computer Sciences Corporation (CSC).
 - Defence Materiel Organisation (Australia).
 - Institution of Engineers (Singapore).
 - IET Singapore Network.
 - Loral Corporation.
 - Luz Industries.
 - Systems Engineering Society of Australia (SESA).
 - University of South Australia.
 - United States Office of Personnel Management (OPM).
 - University System of Maryland.
 - Wireless Institute of Australia.