Leading Systems Engineering Success

A Systems Engineering Executive Overview

Summary

- Full or half-day course (customizable)
- Provides an executive overview of the fundamental principles of Systems Engineering, with its focus on holistic perspectives, balanced trade-offs, and life cycle considerations
- Shows how Systems Engineering is used as an effective way to manage increased system complexity, market pressures, and distributed development efforts
- Elaborates on Systems Engineering effectiveness and return on investment (ROI). Describes how Systems Engineering can reduce your Technical Debt.
- Follows the basic outline and conventions of the INCOSE Systems Engineering Handbook, ISO/IEC/IEEE 15288, and the Guide to the Systems Engineering Body of Knowledge (SEBoK)
- Practical information and tools are provided
- Includes in-class exercises to solidify the concepts being presented
- Each student will receive a complete set of lecture notes and an annotated bibliography

What You Will Learn

- The business value and return on investment of systems engineering
- How to effectively lead your systems engineering deployment and development efforts
- How Systems Engineering is used to develop and evolve a balanced system solution that takes into account risk and downstream life cycle activities
- The questions systems engineering leaders should be asking of their technical team
- The latest Systems Engineering best practices

Course Outline & Topics

1. Welcome and Introductions.

2. Introduction to Systems Engineering. Key Definitions. Importance of Systems Engineering. Systems Engineering Maxims. Introduction to the Systems Engineering Tool Belt. Best Practice ISO/INCOSE Systems Engineering Processes. Best Practice Systems Engineering Roles & Responsibilities.

3. Organizational Implications. What Systems Engineering Means to You and Your Organization.

4. Systems Engineering Questions to Ask. The Questions that Leaders Must Ask, and Systems Engineers Must Answer!

5. Course Wrap-Up and Conclusions.

Instructor – David D. Walden, ESEP

- An internationally recognized expert in the field of Systems Engineering
- Over 30 years of industry experience
- Taught over 100 courses to over 1600 students since 2006
- INCOSE Expert Systems Engineering Professional (ESEP)
- Senior Member of the IEEE
- Lead Editor of the INCOSE SE Handbook Fourth Edition
- Education
  - MS in MOT, University of Minnesota
  - MS in EE & CS, Washington University in St. Louis
  - BS in EE, Valparaiso University

Typical Course Duration – 4 to 8 Hours
Typical Schedule
8:30am-4:00pm (Full Day)
8:00am-Noon or 1:00-5:00pm (Half Day)

Please contact Sysnovation for availability, customization, and pricing.

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