Soft Skills for Systems Engineers
Mastering the Non-Technical Aspects of Successful Systems Development

Summary

- Three-day course (customizable)
- Introduces the participants to soft skills essential for Systems Engineering success
- Focuses on soft skills that ensure your systems ideas are effectively implemented, communicated, and delivered
- Follows the terminology and conventions of the INCOSE Systems Engineering Handbook, the INCOSE SE Competency Framework, and the Guide to the Systems Engineering Body of Knowledge (SEBoK)
- Practical information and tools are provided
- Includes several 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

- Describe important Systems Engineering soft skills
- Understand the role and importance of soft skills to the Systems Engineer
- Identify and understand key soft skills-related methods, tools, and techniques
- Understand your strengths and areas in need of improvement relative to the soft skills needed for Systems Engineers
- Understand the competency implications of Systems Engineering soft skills for both individuals and teams

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

Course Outline & Topics

1. Introduction to Systems Engineering. Systems Engineering Key Concepts. Systems Engineering Fundamental Maxims. Review of Important Systems Engineering Hard Skills.

2. Introduction to Soft Skills. What are Soft Skills? Why are They Important? Characteristics of Systems Thinkers. Introduction to Systems Engineering Soft Skills.

3. Soft Skills for Systems Engineering:
Skills for Relationships
- Communicating (Oral and Written)
- Team Working and Collaboration
- Negotiating and Influencing
- Leading Change
- Conflict Management
- Leadership

Skills for Technical Accomplishment
- Creativity and Idea Generation
- Knowing When to Ask
- Knowing When to Stop
- Decision Making Under Uncertainty
- Flexibility and Adaptability

Skills for Yourself
- Time Management
- Networking and Social Skills
- Teaching, Mentoring, and Knowledge Sharing
- Personal Integrity and Ethics

4. Summary and Conclusions. Competency Frameworks. Skills Self-Assessment. Personal Action Plan. Course Wrap-up.

Typical Course Duration - 3 Days
Typical Schedule 8:30am-4:00pm

Earn up to 18 INCOSE PDUs!

Please contact Sysnovation for availability, customization, and pricing.

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