

INCOSE Certification Provides Common Framework for Systems Engineering Communication and Personnel Development



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What this project needs is a **SYSTEMS ENGINEER**.

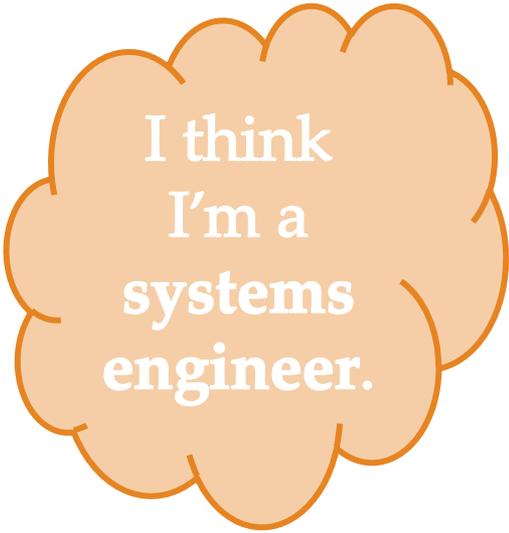
I'm a systems engineer.

I think I'm a systems engineer.



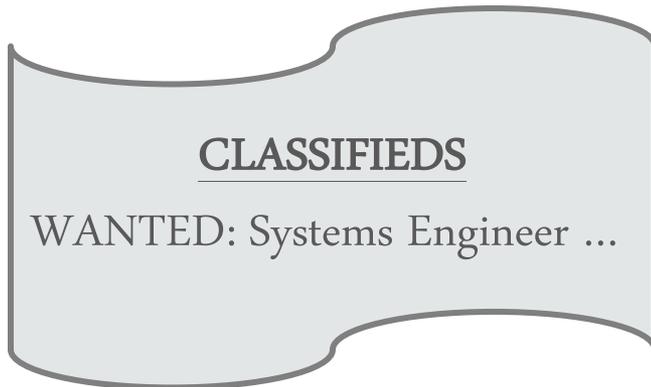
I'm a systems engineer, too.

Communications



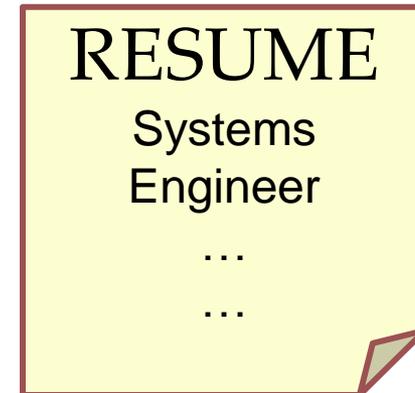
I think
I'm a
systems
engineer.

- Hiring
- Staffing a team
- Writing proposals



?

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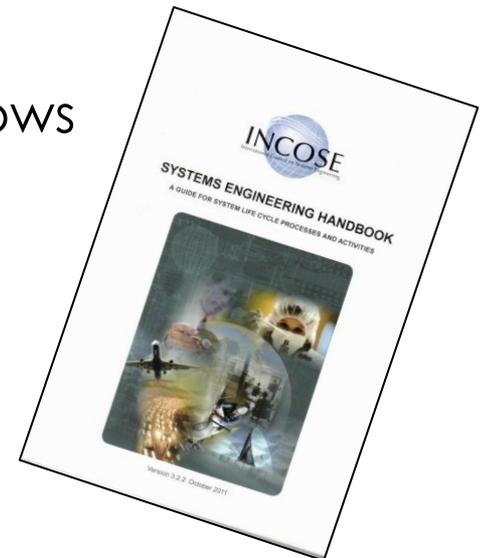


- **INCOSE**

The International Council on Systems Engineering (INCOSE) is a not-for-profit membership organization founded in 1990 to develop and disseminate the interdisciplinary principles and practices that enable the realization of successful systems.

- **Systems Engineering Handbook**

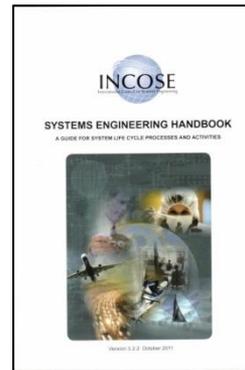
The Systems Engineering Handbook (SEHB) shows what each systems engineering process activity entails, in the context of designing for affordability and performance. Allows for tailoring to a variety of projects.



Even If You Disagree ...

Ways our organization agrees with the SEHB

- *Emphasis on upfront requirements development*
- *Standard milestone reviews*
- *Lifecycle perspective*
- ...

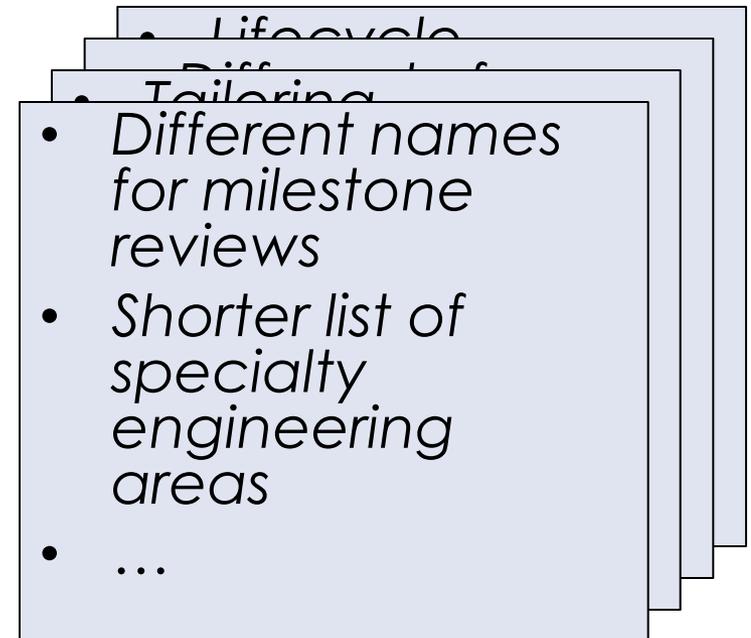
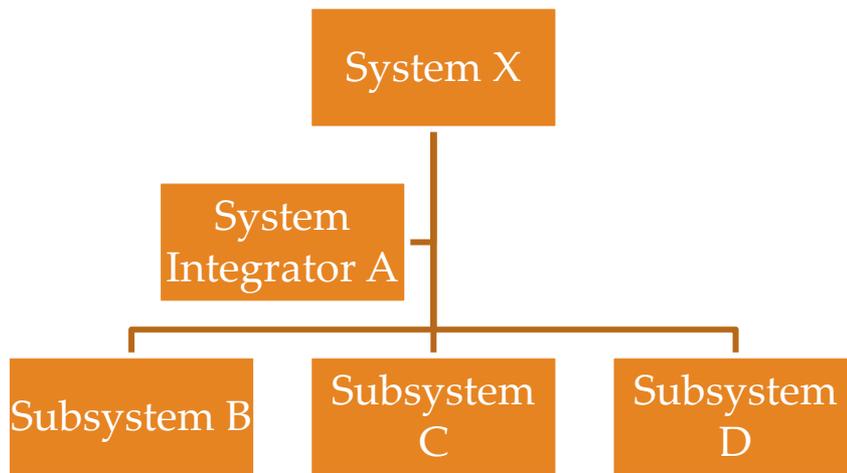


Ways our organization differs from the SEHB

- *Different names for milestone reviews*
- *Shorter list of specialty engineering areas*
- ...

Team Communication

Integrating Diverse Teams



Examples: Contracts Tied to INCOSE Certification

- U.S. Department of Defense, Office of the Undersecretary, Acquisition & Technology, Systems and Software Engineering
- Federal Aviation Administration, SE-2020 RFP
- U.S. Department of Homeland Security, Secure Border Initiative RFP
- National Research Council, Committee on Pre-Milestone A Systems Engineering: A Retrospective Review and Benefits for Future Air Force Systems Acquisition
- Federal Highway Administration and the California Department of Transportation Systems Engineering Guidebook



Examples: Organizations Supporting INCOSE

- EADS
- Booz Allen Hamilton
- ManTech
- MITRE
- Lockheed Martin
- TASC
- BAE Systems
- Jacobs Technology
- ASTER Technology & Engineering
- LinQuest
- Thales
- OPS Consulting
- L-3 Communications
- The SI Organization
- Stevens Institute of Technology
- University of Texas – El Paso
- École Polytechnique
- ISAE/Supaero
- University of New South Wales
- Worcester Polytechnic Institute

Organizational Use for Professional Development

- Measurable actions for employees
- Well-defined path for increased expertise
- Renewal requirements drive continued professional learning

SE Development Path

Expert Systems Engineering

Professional focused on:

- LEADERSHIP
- SE ACCOMPLISHMENTS
- SIGNIFICANT SE EXPERIENCE

Certified Systems Engineering

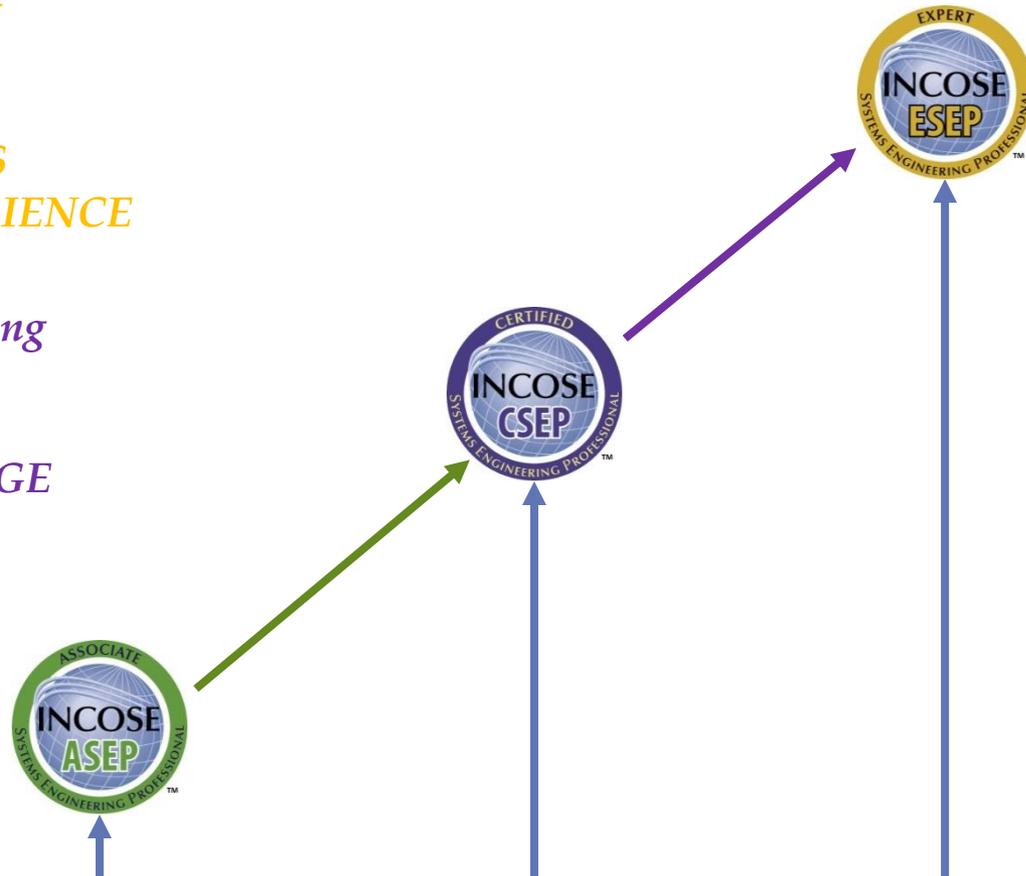
Professional focused on:

- SE EXPERIENCE
- APPLIED SE KNOWLEDGE

Associate Systems Engineering Professional

focused on:

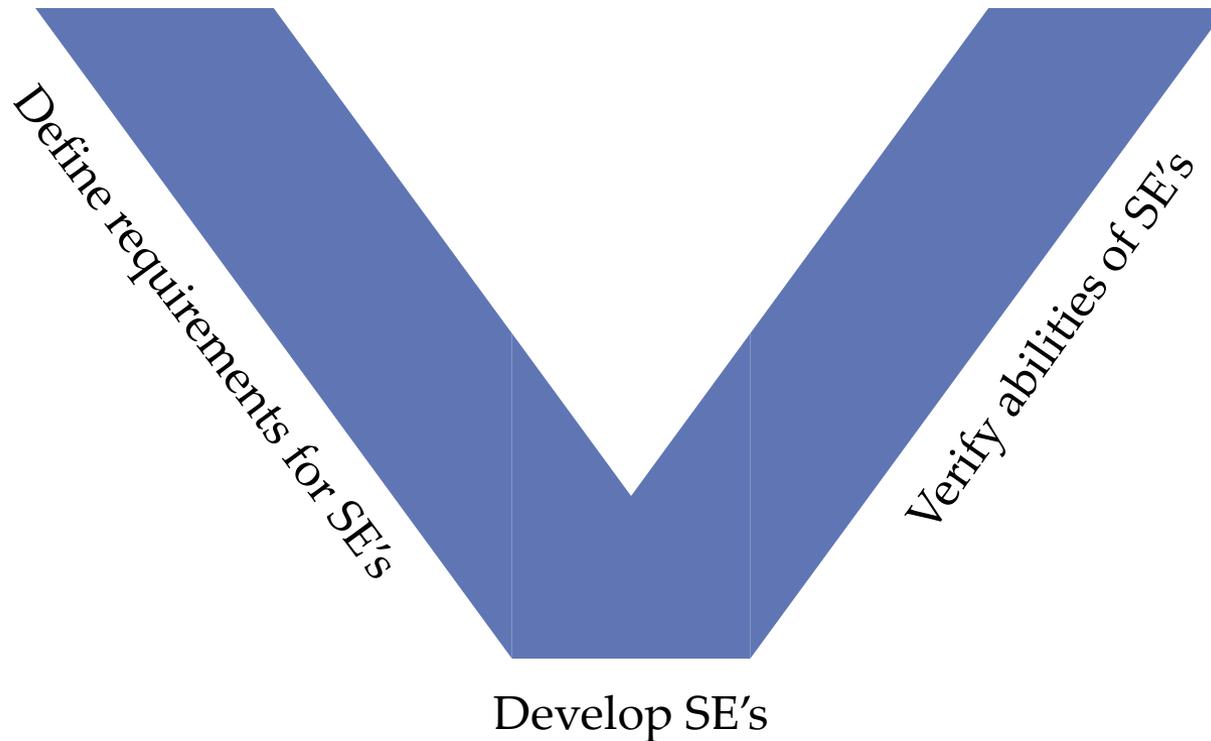
- SE KNOWLEDGE



Certification Renewal Requirements

- Technical Society participation
- Graduate courses
- Technical publications
- Receive patents
- Technical leadership job functions
- STEM volunteer activities

Obligatory “Vee”



INCOSE Certification is a process for developing Systems Engineers.

Further Information

Email Contacts

Certification Office:

certification@incose.org

Courtney Wright, CSEP

Certification Program Manager:

Courtney.Wright@incose.org

For more information visit:

www.incose.org/educationcareers/certification/