

Welcome

INCOSE Chesapeake Chapter2nd Annual Maryland CSEP Gala7 September 2011



Get involved



Help the BoD grow the Chapter

Got a topic to share?

Join our great list of speakers — Give a Lecture at our



Share your Thoughts – Blog It

Contact Paul Martin, Communications Officer to





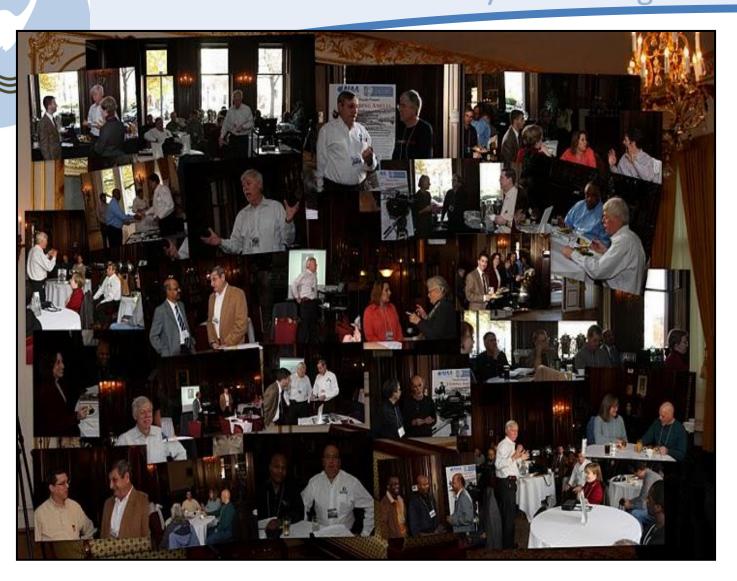






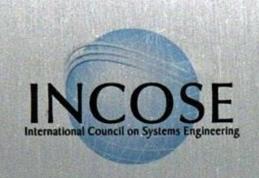














DIRECTOR'S AWARD

Presented to

CHESAPEAKE CHAPTER

FOR MOST IMPROVED PERFORMANCE IN ONE YEAR

PRESENTED JUNE 2011





GOLD CHAPTER CIRCLE AWARD

BASED UPON ITS CONTRIBUTIONS AND ACCOMPLISHMENTS IN 2010

CHESAPEAKE CHAPTER

IS RECOGNIZED FOR REACHING THE HIGHEST GOALS AND STANDARDS ESTABLISHED BY OUR ORGANIZATION.

PRESENTED JUNE 2011

The need for Systems Engineers



Chesapeake Chapter

International Council on Systems Engineering

"Another factor contributing to program failure is the shortage of technically trained people, especially systems engineers. A systems engineer translates technical needs into an overall system architecture that creates the best operational capability at the most affordable cost. As a project proceeds and goals or needs shift, systems engineers have to determine the difficult but necessary cost, schedule, and performance trade-offs to keep everything on track. As programs get bigger and more complex, the need for rigorous systems engineering increases."

IEEE Spectrum, Volume 45, Issue 11, November 2008 Page(s):33 - 39

CNNMoney.com

- Date: Oct 2009
- Systems Engineer ranked as #1 job in America
- Mentions INCOSE
 CSEP as a potential
 pre-requisite





Senior Level

ESEP



Foundation Level

Discipli e Extensions

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Chesipeake Chapter
INCOSE
International Council on Systems Engineering

Entry Level

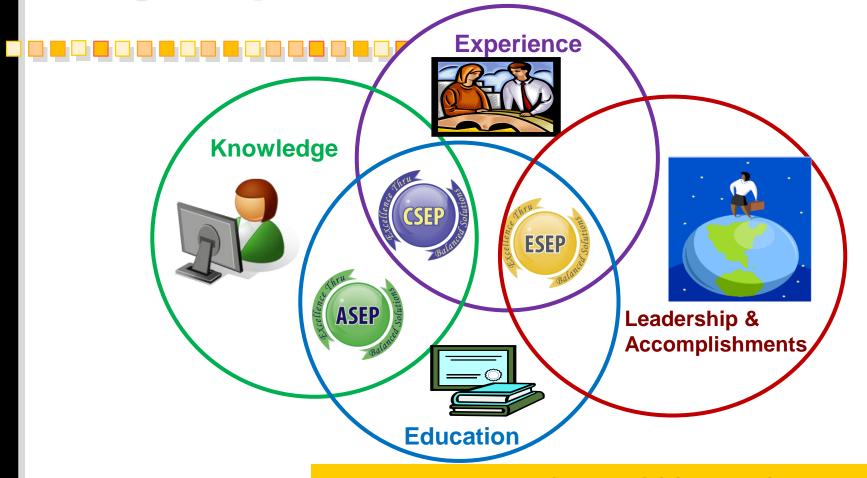
ASEP

ESEP CSEP ASEP

-Acq

Expert Systems Engineering Professional Certified Systems Engineering Professional Associate Systems Engineering Professional Certification w/ US DoD Acquisition

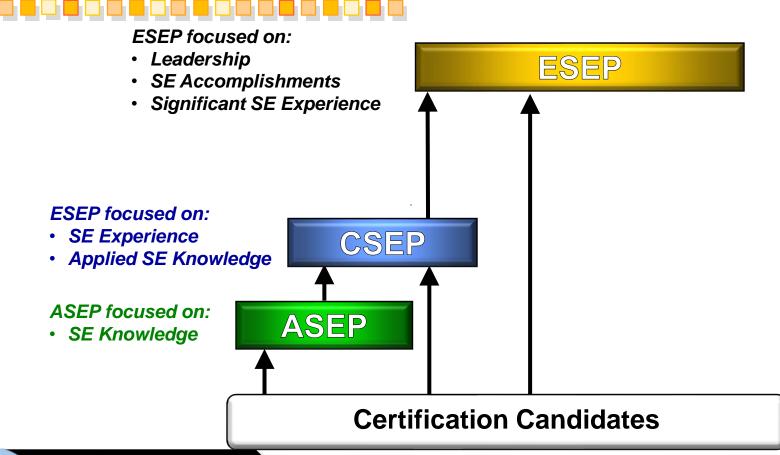
Key Requirements of Certification



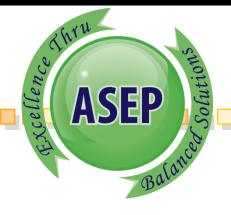


These elements of the INCOSE certifications are measurable tangible parameters consistent with ISO guidelines for a certification program.

Certification Focuses on the Breadth of Demonstrated Learning Needed for a Career of System Engineering







Entry Level

Associate Systems Engineering Professional

- Targeted towards junior/emerging Systems Engineers and recent college graduates with limited Systems Engineers work experience
- ASEPs are certified against knowledge requirements through an exam
- ASEPs must be, and remain, INCOSE members
- Renewal every 5 years through professional development, maximum duration of 15 years
- Available since 2008





Foundation Level

Certified Systems Engineering Professional

- Targeted towards people with five or more years of Systems Engineers work experience
- CSEPs are certified against experience, education, and knowledge requirements
- Experience must be substantiated by 3-5 work-related references
- Knowledge certified through an exam
- INCOSE membership not required
- Renewal every 3 years through professional development
- Available since 2004





Senior Level

Expert Systems Engineering Professional

- Targeted towards Systems Engineering leaders with significant work experience and demonstrated systems accomplishments and who have many years of systems engineering experience
- ESEPs are certified against experience, leadership, professional development, and education requirements
- Experience must be substantiated by 3-5 work-related references
- Interviews used to validate leadership and significant systems accomplishments
- ESEPs must be, and remain, INCOSE members
- No renewal requirements other than INCOSE membership
- Available since 2010





Acquisition Extension

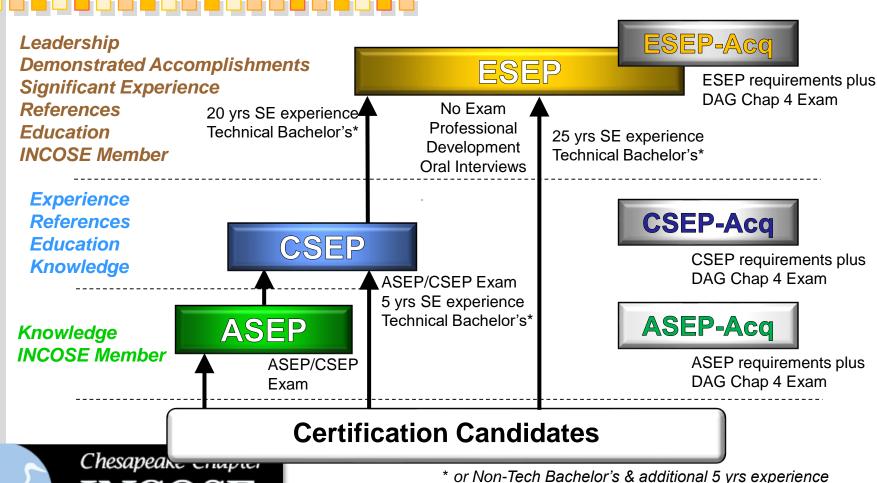
US DoD Acquisition Extensions

- Targeted towards Systems Engineers who support or work in a US Department of the Defense acquisition environment
- Candidates must first become an ASEP, CSEP, or ESEP
- Acquisition knowledge items tested through both the core ASEP/CSEP exam and an additional Acq exam
- Extension renewed concurrently with base certification
- Available since 2008



International Council on Systems Engineering

Multi-Level Certification Concept



* or Non-Tech Bachelor's & additional 5 yrs experience or No Bachelor's & additional 10 yrs experience

14 Functional Areas Recognized for Systems Engineering Experience

- SE Technical Competencies
 - Requirements Engineering
 - Design Development
 - System Integration
 - Qualification, Verification, and Validation
- SE Management Competencies
 - Technical Planning
 - Technical Effort Assessment
 - Risk and Opportunity Management
 - Baseline Control

- SE Support Competencies
 - Specialty Engineering
 - Process Definition
 - Training
 - Tool Support
 - Quality Assurance
- Other SE Competencies
 - To allow for the variety of SE across domains

Successful candidates must have balanced experience across multiple areas

