



INCOSE ASEP / CSEP Preparation Courses

The International Council on Systems Engineering (INCOSE) is a not-for-profit professional organization with a strong basis in the United States, but serving about 7000 members in over 22 countries. INCOSE's mission is to advance the state of the art and practice of systems engineering in industry, academia, and government by promoting interdisciplinary, scaleable approaches to produce appropriate solutions that meet societal needs.

- **Requirements Engineering**
- **Risk and Opportunity Management**
- **Baseline Control**
- **Technical Planning**
- **Technical Effort Assessment**
- **Architecture/Design Development**
- **Qualification, Verification, and Validation**
- **Process Definition**
- **Tool Support**
- **Training**
- **Systems Integration**
- **Quality Assurance**
- **Specialty Engineering**

For organizations...

- **Formally recognizes the Systems Engineering capabilities of your people**
- **Certified systems engineers can be a selling point and a discriminator for your proposals**
- **Can be used as part of the hiring and promotion process**
- **It encourages employee participation in continuing education**
- **Provides an independent internal and external assessment**
- **It is a tool for promoting professional competence**

For individuals...

- **Formally recognizes your Systems Engineering capabilities**
- **It is a discriminator that can aid in obtaining your next job**
- **Can provide a competitive advantage in your career**
- **Provides a portable Systems Engineering designation that is recognized across industry**
- **Furthers your professional development as a systems engineer**
- **Participation in continuing education indicates your commitment to personal development**

For your teams...

- **Allows the team to level-set on Systems Engineering concepts and activities**
- **Can help establish a common Systems Engineering language for your team**
- **This can...**
 - help break down geographic boundaries
 - help break down organizational boundaries
 - help break down cultural boundaries

- Targeted towards Systems Engineers with limited work experience
- Ideal for junior/emerging Systems Engineers and recent college graduates
- ASEPs are certified against knowledge requirements
- Level requirements
 - Experience: None required
 - Education: None required
 - References: None required
 - Exam: ASEP/CSEP exam based on INCOSE SE Handbook v3.1



- Targeted towards Systems Engineers with five or more years work experience
- CSEPs are certified against experience, education, and knowledge requirements
- Level requirements
 - Experience: 5 years minimum (maximum depth: 3 years in any 1 area and 2 years in other competency areas; maximum breadth: 1 year in each of 3 areas and 2 years in other areas)
 - Education: Technical degree or non-technical 4-year degree or no degree with additional 10 years of general engineering (not specifically SE) experience
 - References: 3 references who must also be knowledgeable in Systems Engineering (cumulative coverage of the years of experience)
 - Exam: ASEP/CSEP exam based on INCOSE SE Handbook v3.1



- **INCOSE SE Handbook Version 3.1 is the basis for the CSEP & ASEP exams**
- **Exam duration is 2 hours in length**
- **Exam comprises 120 multiple choice questions**
- **Administered electronically at world-wide Prometric locations**
- **Pass/Fail results provided immediately upon exam completion**
- **Candidates are eligible for two re-tests within one year of application submittal**

- **Introduction to INCOSE Certification Program**
- **Introduction to Systems Engineering**
- **Enterprise and Agreement Processes**
- **Project Processes**

Technical Processes

- Stakeholder Requirements Definition Process
- Requirements Analysis Process
- Architectural Design Process
- Implementation Process
- Integration Process
- Verification Process
- Transition Process
- Validation Process
- Operation Process
- Maintenance Process
- Disposal Process

- **Specialty Engineering Activities**
- **Wrap-Up**
- **Test**
- **Evaluation & Recommendation**

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