• Taking your career to the next level
• Why should you get certified?
• What is INCOSE?
• INCOSE SEP Program
• Which certification is right for you?
• The process
• The certification exam
• An alternate process
• Remaining certified
• Additional Resources
• Experience – Work in your chosen field
• Education – Go to school
• Mentorship – Learn from good people
• Involvement – Join industry organization, attend seminars/conferences
• Performance – Do great work and stand out
• Certification – Gain formal recognition
Why Should You Get Certified?

- Experience – You have seen a lot.
- Education – You have knowledge.
- Respect – Your peers have confidence in your skills.
- Involvement – More than just your job; it is part of who you are.
- Commitment – You are dedicated to advancing your field.
- Competence – You know your stuff.
- Service – You want to give something back (leave something behind).
Why Should You Get Certified?

• More than “letters after your name”.
• In short, it is a tangible “mark of excellence”. (Everyone says they are “good” ... show us!)
• Often, you can get certified with less experience, time, and cost than other methods.
What is INCOSE?

International Council on Systems Engineering
Industry organization for systems engineers
(Similar to IEEE, AIAA, SWE, PMI, etc.)
Local Wasatch Chapter

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Multi-Level Base Credentials

The base ASE, CSE, and ESE credentials cover the breadth of systems engineering at increasing levels of leadership, accomplishments, and experience.
<table>
<thead>
<tr>
<th>Level</th>
<th>Leadership</th>
<th>Experience</th>
<th>Education</th>
<th>References</th>
<th>Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Required</td>
<td>Minimum 5 years SE experience (see SE function area list below)</td>
<td>Technical Degree (can be augmented with additional years of experience without a technical degree)</td>
<td>3 references (cumulative coverage of at least the most recent 10 years of experience)</td>
<td>CSEP exam based on INCOSE SE Handbook</td>
</tr>
<tr>
<td>None</td>
<td>Required</td>
<td>Minimum 5 years SE experience (see SE function area list below)</td>
<td>Technical Degree (can be augmented with additional years of experience without a technical degree)</td>
<td>3 references (cumulative coverage of at least the most recent 10 years of experience)</td>
<td>CSEP exam based on INCOSE SE Handbook</td>
</tr>
<tr>
<td>None</td>
<td>Required</td>
<td>Minimum 25 years (20 if CSEP) SE experience (see SE function area list below)</td>
<td>Technical Degree (can be augmented with additional years of experience without a technical degree)</td>
<td>3 references (cumulative coverage of at least the most recent 10 years of experience)</td>
<td>CSEP exam based on INCOSE SE Handbook</td>
</tr>
<tr>
<td>None</td>
<td>Required</td>
<td>Minimum 5 years of professional development credit</td>
<td>Technical Degree (can be augmented with additional years of experience without a technical degree)</td>
<td>3 references (cumulative coverage of at least the most recent 10 years of experience)</td>
<td>CSEP exam based on INCOSE SE Handbook</td>
</tr>
</tbody>
</table>

*INCOSE Membership is required.
The Process

Pick the level that is right for you
- ASEP
- CSEP
- ESEP

Submit application
- Experience
- Education
- 3 References
- Fee

Take certification exam
- Study INCOSE Systems Engineering Handbook
- Schedule exam & pay fee
- Take exam
- Get score

Maintain your certification
- Maintain INCOSE membership
- Work in your field
- Continue learning
- Stay involved
- Help others

Renew your certification
- Take credit for activities
- Provide evidence
- Pay fee
- (Can renew by taking certification exam)

1 Year

3 Years

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Certification Exam

- Source material is INCOSE Systems Engineering Handbook
- Closed book (Scratch paper allowed—must turn in)
- Given at a Prometrics testing center (6,000 locations worldwide)
- 2 Hours
- 120 Questions
- Multiple choice
  - Most have one answer
  - 40% have more than one answer (e.g., select 2, select 3)
  - No partial credit
- Receive your score right away (Pass or Fail)
Certification Exam

Training is available.

Study groups can be arranged.

INCOSE Wasatch Chapter Meeting – May 10\textsuperscript{th} @ KIHOMAC (Layton)

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An Alternative Process

Available at INCOSE Western States Regional Conference
September 20-22, 2018 – Ogden, Utah

1 Year

Take certification exam
• Beta version
• Paper-based
• Receive score a few weeks later
• NO FEE!

Submit application
• Still must pay application fee

Maintain your certification

Renew your certification

3 Years

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## Remaining Certified

<table>
<thead>
<tr>
<th>Certification Level</th>
<th>Renewal Requirements</th>
</tr>
</thead>
</table>
| ASEP                | 120 PDU  
Every Five (5) Years  
Must maintain INCOSE individual, senior, or student membership and transition to CSEP within 15 years |
| CSEP                | 120 PDU  
Every Three (3) Years  
Must maintain INCOSE individual, senior, or student membership if certified after 31 December 2015 |
| ESEP                | No renewal required, but must maintain INCOSE individual, senior, or student membership |

PDU = Professional Development Unit

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Example

• Serve as lead systems engineer (15 PDUs / yr * 3 yrs) = 45 PDUs
• Be an INCOSE member (5 PDUs / yr * 3 yrs) = 15 PDUs
• Attend INCOSE meetings (1 PDU/hr * 12 mtgs * 3 yrs) = 30 PDUs (maximum allowed)
• Volunteer activities (1 PDU/hr * 10 hr/yr * 3 yrs) = 30 PDUs

• 120 Total PDUs!
Conclusion

• Consider certification: take your career to the next level.
• Gain formal recognition with less experience, time, and cost.
• INCOSE has a certification program: ASEP, CSEP, and ESEP.
• Certification takes 1 year.
• Certification good for 3 years.
• After you get a certification, remain certified by staying involved in your industry.
Additional Resources

• INCOSE Website: www.incose.org
• INCOSE Wasatch Chapter Website: www.incose.org/wasatch
• INCOSE Certification Website: http://www.incose.org/certification