The International Council on Systems Engineering

“Systems Engineering Professional Certification”
Welcome Center Event 3 (2022 February)

Presented By New Member Engagement Team (NMET) (Email:nme@incose.net)
About New Member Welcome Center

• The Welcome Center is a social and virtual forum for INCOSE New Members
• Welcome Center cafes aim to onboard, orient and communicate with new members in their initial INCOSE journey
• Welcome Center New Member Yammer community is an online platform that can be used dynamically by members to connect and engage with other Members and locate INCOSE information

New Member Guides

• Senior/Experienced INCOSE members connect and engage with new members via Welcome Center Café events, online collaboration (Yammer) and informal communication avenues (email, MS Teams chat etc.)

<table>
<thead>
<tr>
<th>New Member Welcome Center Café Event</th>
<th>Date and Registration Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, 4:00pm Japan Time (11:00 pm US Pacific)</td>
<td>23-February-2022 Register</td>
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<tr>
<td>Thursday, 8:00am US Pacific Time</td>
<td>24-February-2022 Register</td>
</tr>
<tr>
<td>Monday, 6:00pm London Time (10:00 am US Pacific)</td>
<td>28-February-2022 Register</td>
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</table>
Purpose and Agenda

Agenda

• Welcome/Introduction
• INCOSE Overview
• Certification Guest Speaker
  o Courtney Wright, Program Director, Certification
  o Certification Q&A
• Guide/Attendee Breakout Groups (25 minutes)
• Conclusion/Welcome Center event feedback (5 minutes)
Vision, Mission & Goals

• Vision
  • A better world through a systems approach.

• Mission
  • To address complex societal and technical challenges by enabling, promoting, and advancing Systems Engineering (SE) and systems approaches.

• Goals
  • Be a focal point for dissemination of systems engineering knowledge
  • Promote international collaboration
  • Assure the establishment of professional standards in systems engineering
  • Improve the professional status of all Systems Engineers
  • Encourage governmental and industrial support for System Engineering

• Visit https://www.incose.org/about-incose to view the vision, mission and goals
Why INCOSE?

**Professional Development**
- Increase your technical knowledge through INCOSE webinars, publications, papers and your chapter tutorials
- Improve your knowledge and skills

**Professional Networking**
- Connect and engage with your SE peers various INCOSE, sector and chapter events to expand your professional network
- Create friendships

**Professional Prominence**
- Advance your visibility and impact by becoming involved in developing, publishing, and presenting on SE topics
- Share your technical knowledge and ideas with the community and across professional organizations

**Working Groups**
- Join a working group to help lead, guide and advance technical knowledge

**Chapter Involvement**
- Become involved in your local chapter STEM programs to support the upcoming generation of SE’s

**Certification**
- Become a certified to advance your recognition in SE

**Leadership**
- Grow, advance and leave an impact by becoming an INCOSE volunteer

New Member Welcome Center Event
Welcome Center Poll

We want YOUR Feedback on today’s Welcome Center event (e.g., chat poll)

1. What did you like about this January Welcome Center event focused on the International Workshop?
2. What can be improved for future Welcome Center events?
3. How else do you want to be supported to become more involved within INCOSE?

Contact Us @ nme@incose.net
INCOSE Products

- Technical Publications/Products
  - Members have access to free soft copy downloads - https://www.incose.org/products-and-publications/technical-publications
  - Access to SE Journal, INSIGHT Magazine and INCOSE Newsletter
- SE Body of Knowledge (SEBOK)
  - https://www.sebokwiki.org
- Periodicals
- Proceedings/Papers
- INCOSE Store
  - Purchase and order INCOSE products via https://connect.incose.org/pages/store.aspx
Working Groups

• Working Groups (WGs) are the resource practitioners need.

• Participants discuss, collaborate, share in person, and online across more than 60 WGs in INCOSE with a wide diversity of interests.

• INCOSE WG members create products, present panels, develop and review standards.

• View the INCOSE Working Groups - www.incose.org/workinggroups
Working Group Members

- Bring value to other INCOSE stakeholders in your interest area
- Build expertise and contacts
- Help develop and review international standards
- Create products to advance the state, art and practice of Systems Engineering.

**How to Join a Working Group** (found on the working group page)

- Membership in Working Groups is open to any INCOSE member. To join a group:
  - [http://profile.incose.org](http://profile.incose.org)
  - Scroll to the bottom left section titled "My Committees and Working Groups"
  - Click the link for "Browse / Join a Working Group"
  - Find the desired Working Group and click on View to see roster; the Join option is at the bottom of the page
  - Additionally, email the Working Group leaders by clicking on their name(s) from the Working Groups page and sending them an email expressing your interest!
At the heart of INCOSE is the ability to connect people.

Whether you are interested in increasing your circle of influence, or in working on an issue, INCOSE Chapters and Working Groups offer unparalleled points of connection.

Search for an INCOSE chapter - www.incose.org/chapters
New Member Yammer Community

• New Yammer community will be created
• This is a community for YOU, INCOSE New Members to network and discuss topics of interest
• www.yammer.com and login with your @incose.buzz account when assigned
The INCOSE website IS the way to access the latest information and resources.

Visit www.incose.org to log into your INCOSE account, access your profile, assign your INCOSE chapter, access publications and so much more!

Purchase and download INCOSE publications.

To collaborate with working groups and teams go through the Portal.

Use your login ID and password to access the intranet.

Locate New Member information.

Like all organizations, INCOSE is monitoring the COVID-19 situation throughout the world and adapting to it.

New to INCOSE?
Corporate Advisory Board

- The INCOSE Corporate Advisory Board (CAB) is the voice of the industry to the INCOSE leadership, leading to the development of systems engineering products and input to standards to meet their needs.
- Learn more about the CAB and access application forms at www.incose.org/cab
- Why should a company join the INCOSE CAB?
  - CAB membership allows your organization to guide the direction of the discipline.
  - Employees can gain access to the state-of-the-art products.
  - Align with peers and fellow industry leaders, grow your global footprint, and learn about how other industry leaders are applying systems engineering to solve business problems.
  - Gain better access to talent – find and hire competent, certified Systems Engineers through your INCOSE connection.
INCOSE Events

- INCOSE conferences events and news information is located at www.incose.org/events
- At this site, you will find a listing of upcoming informational sessions, a link to the annual International Working Group (IW) and the International Symposium (IS) conferences.
About SEP Certifications

Primary information source
Courtney Wright is a CSEP and the INCOSE Certification Program Manager. She handles the INCOSE Certification Program’s external interfaces and marketing and ensures compliance to internal policies. Courtney works with individuals and large organizations to support their professional development activities. Her experience includes modeling and simulation for the USAF, specialty engineering for the National Reconnaissance Office (NRO), requirements engineering for the National Geospatial-Intelligence Agency (NGA), architecture and design development for the National Aeronautics and Space Administration (NASA), and systems engineering training development and delivery for the Federal Aviation Administration (FAA).
INCOSE
Systems Engineering Professional (SEP) Certification Program

Program Summary
July 2021
Multi-Level Base Credentials

The base ASEP, CSEP, and ESEP credentials cover the breadth of systems engineering at increasing levels of leadership, accomplishments, and experience.
As of 31 December 2021:

- 3979 Total SEPs
- 1283 ASEPs
- 2337 CSEPs
- 359 ESEPs
As of 31 December 2021:

Top Countries w/ Active SEPs
USA 2398 SEPs
UK 245 SEPs
Germany 188 SEPs
Australia 154 SEPs
France 153 SEPs
Turkey 115 SEPs
SEPs by Sector

As of 31 December 2021

INCOSE Certifications by Sector

- Americas
- Europe-Africa-Middle East Sector
- Asia-Oceana Sector

<table>
<thead>
<tr>
<th></th>
<th>ESEP</th>
<th>CSEP</th>
<th>ASEP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Americas</td>
<td>302</td>
<td>1319</td>
<td>762</td>
</tr>
<tr>
<td>Europe-Africa-Middle East Sector</td>
<td>46</td>
<td>670</td>
<td>403</td>
</tr>
<tr>
<td>Asia-Oceana Sector</td>
<td>11</td>
<td>176</td>
<td>118</td>
</tr>
</tbody>
</table>

Total INCOSE Certifications by Sector

- Americas: 63%
- Europe-Africa-Middle East Sector: 29%
- Asia-Oceana Sector: 8%

% Members Certified by Sector

- Americas: 42%
- Europe-Africa-Middle East Sector: 27%
- Asia-Oceana Sector: 23%
- Total: 34%
SEP Program Statistics

USA States with INCOSE Certified Professionals (Minimum 40)

As of 31 December 2021:

Top US States w/ Active SEPs
- Virginia: 396 SEPs
- California: 332 SEPs
- Maryland: 282 SEPs
- Colorado: 167 SEPs
- Texas: 134 SEPs
- Florida: 114 SEPs

SEPs by US State

VA | CA | MD | CO | TX | FL | SC | AL | MI | NY | NJ | MA | AZ | PA
As of 31 December 2021:

Top Chapters w/ Active SEPs
- Washington Metro: 453 SEPs
- United Kingdom: 253 SEPs
- Chesapeake: 175 SEPs
- Los Angeles: 173 SEPs
- Colorado: 165 SEPs
As of 31 December 2021:

Top Organizations w/ Active SEPs
- Northrop Grumman: 146 SEPs
- Lockheed Martin: 131 SEPs
- Booz Allen Hamilton: 129 SEPs
- Airbus: 114 SEPs
Job Postings ask for SEP

- Aspiration Software
- Barrios
- Belcan Government Services
- Booz Allen Hamilton
- Central Intelligence Agency
- ClearMotion
- DRS Technologies
- Engility
- Georgia Tech Research Institute
- IDEMIA
- INNOVIM
- JB Management
- KBRWyle
- Leidos

- Lockheed Martin
- Logistics Management Institute
- The Mitre Corporation
- National Geospatial-Intelligence Agency
- Newbrook
- Noblis
- Northrop Grumman Corporation
- Oceaneering
- OG Systems
- Raytheon
- SAIC
- Sanmina Corporation
- Vencore
Certification Agreements: Industry

- The Airbus Group
- ASTER Technology & Engineering
- AVICIT
- BAE Systems
- Booz Allen Hamilton
- Cummins
- Jacobs Technology
- KBR Wyle
- L-3 Communications
- LinQuest

- Lockheed Martin
- ManTech
- MITRE
- OPS Consulting
- Perspecta
- Raytheon
- Roche
- SAIC
- Thales
Certification Agreements: University

• Streamlined Process
  • École Polytechnique
  • ISAE/Supaero
  • University of New South Wales
  • University of Texas – El Paso
  • Worcester Polytechnic Institute

• Academic Equivalency
  • Colorado State University
  • Cornell University
  • Drexel University
  • Missouri S&T
  • Naval Postgraduate School
  • University of Alabama – Huntsville
  • University of Detroit – Mercy
  • University of Maryland – Baltimore County
  • University of Michigan
  • University of New South Wales
  • Worcester Polytechnic Institute
Certification Agreements: Other

- Object Management Group (OMG) OCSMP
- GfSE (Germany)
- SESA (Australia)
- INCOSE UK Chapter
- US Defense Acquisition University (DAU)
SEP Describes Career Path

- **ESEP focused on:**
  - LEADERSHIP
  - SE ACCOMPLISHMENTS
  - SIGNIFICANT SE EXPERIENCE

- **CSEP focused on:**
  - SE EXPERIENCE
  - APPLIED SE KNOWLEDGE

- **ASEP focused on:**
  - SE KNOWLEDGE

You can enter at whatever SEP level is appropriate and can seamlessly transition between levels when ready.
Knowledge Level: Associate Systems Engineering Professional

• Targeted towards junior/maturing systems engineers and recent college graduates with limited systems engineering work experience
• ASEPs are certified against knowledge requirements
• Knowledge confirmed through an exam based on the INCOSE SE Handbook
• ASEPs must be, and remain, INCOSE members
• Renewal every 5 years through ongoing professional development, maximum duration of 15 years
• Available since 2008
Foundation Level: Certified Systems Engineering Professional

- Targeted towards systems engineers with five or more years of systems engineering work experience
- CSEPs are certified against substantiated experience, education, and knowledge requirements
- Experience must be substantiated by 3-5 work-related references
- Knowledge confirmed through an exam based on the INCOSE SE Handbook
- CSEPs must be, and remain, INCOSE members
  - Does not apply to those who applied in 2015 or earlier
- Renewal every 3 years through ongoing professional development
- Available since 2004
Senior Level: Expert Systems Engineering Professional

• Targeted towards senior systems engineering leaders with recognized systems accomplishments, who have many years of systems engineering work experience
• ESEPs are certified against substantiated professional leadership, systems engineering accomplishments, experience, and education requirements
• At least 10 years of 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
What Certification is Right for You?

- If you have just started (or plan to start) practicing systems engineering or have recently graduated and are interested in systems engineering

- If you are a practicing Systems Engineer with more than five years of systems engineering professional work experience

- If you are a systems engineering leader with recognized systems accomplishments and have many years of systems engineering professional work experience
Topics

• What is INCOSE?
• Who is recognizing and supporting INCOSE certification?
• What are the levels of certification?
• What is the application process for certification?
• How is certification renewed?
ASEP Application Process

**INCOSE**

**Study and Take Exam**
- INCOSE SE Handbook

**Complete Application**
- Join INCOSE, Submit Completed Application And Fee

**Schedule, Pay, and Pass Exam**

**INCOSE Application Center**

**5 year Certification**

Applicant has **up to one year** to complete the process once started.
CSEP Application Process

1. Verifiable Education
2. Verifiable Experience

Application Development

Join INCOSE, Submit Completed Application And Fee

Study and Take Exam

INCOSE SE Handbook

Schedule, Pay, and Pass Exam

Reference Submittal

3. Applicant’s Advocates (three references knowledgeable about SE)

INCOSE Application Center

INCOSE Evaluation

Applicant must complete all steps within 12 months.

INCOSE SEP Program Overview 38
**ESEP Application Process**

**INCOSE Application Center**

1. **Verifiable Education**
   - Join INCOSE, Submit Completed Application And Fee

2. **Verifiable Experience**

3. **Verifiable Professional Development**

**Reference Submittal**

4. Applicant’s Advocates (three references knowledgeable about SE)

**Notify Applicant**

Pass

- Conduct Oral Review with Applicant and Up to Two References (Via telephone conference)

**Certification**

Applicant has **up to one year** to complete the entire process.

**Application Development**

- INCOSE Evaluation

**INCOSE SEP Program Overview**

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Knowledge verified by exam

• CSEP/ASEP Exam Basis
  • INCOSE Systems Engineering Handbook v4
• Exam is
  • 100 or 120 questions, 100 or 120 minutes long
  • Administered online with video proctoring
  • Offered as a pencil-and-paper test at many INCOSE events
• Candidates are eligible for three attempts within one year
Education verified by diploma

- Education
  - Qualifying Bachelor’s Degree (or international equivalent)
    - Acceptable engineering fields of study include: aeronautics, biomedical, chemical, civil, computer, electrical, environmental, industrial, mechanical, nuclear, software, systems
    - Other acceptable fields of study include: chemistry, computer science, mathematics, physics
    - If the Bachelor’s degree does not come from the above fields, then a Masters or Doctorate degree (or international equivalent) in those fields is acceptable
    - INCOSE is the final authority on degree applicability
  - Additional Experience Can be Substituted
    - Minimum of 5 additional years of general engineering experience for non-technical Bachelor’s degree
      - Minimum of 10 years (with at least 5 in SE) for CSEP
      - Minimum of 25 years (with at least 20 in SE) for ESEP w/ CSEP
      - Minimum of 30 years (with at least 25 in SE) for ESEP w/o CSEP
    - Minimum of 10 additional years of general engineering experience if no Bachelor’s degree
      - Minimum of 15 years (with at least 5 in SE) for CSEP
      - Minimum of 30 years (with at least 20 in SE) for ESEP w/ CSEP
      - Minimum of 35 years (with at least 25 in SE) for ESEP w/o CSEP
Experience documented across specific areas

- Requirements Engineering
- System and Decision Analysis
- Architecture / Design Development
- System Integration
- Verification and Validation
- System Operation and Maintenance
- Technical Planning
- Technical Monitoring and Control
- Acquisition and Supply
- Information Management and Configuration Control
- Risk and Opportunity Management
- Lifecycle Process Definition and Management
- Specialty Engineering
- Organizational Project Enabling Activities
- Other

Successful candidates must have balanced experience across multiple areas
CSEP Certification Experience Requirements

• CSEP Systems Engineering Experience
  • **Minimum 5 years of professional level experience** in multiple SE functional areas (and any additional general years of experience necessary due to education status)
  • Minimum of **at least 1 year** of professional level SE experience in each of **3 or more** of the SE experience areas
  • Must be documented on the INCOSE application form

• Experience Confirmation
  • Recommendations from **at least 3** colleagues / peers / managers
  • References must cover **at least 5 years and 3 areas** of SE experience claimed by the applicant (including any additional years)
  • References must **be knowledgeable in Systems Engineering** (or general engineering for any additional years) and have at least five years of relevant experience
  • Must be documented on the INCOSE reference form
ESEP Certification Experience
Requirements

• ESEP Systems Engineering Experience
  • **Minimum 25 years (20 if already a CSEP) of professional level experience** in multiple SE functional areas (and any additional general years of experience necessary due to education status)
  • Minimum of **at least 2 years** of professional level SE experience in each of 6 or more of the SE experience areas
  • Must be documented on the INCOSE application form

• Experience Confirmation
  • Recommendations from **at least 3** colleagues / peers / managers
  • References must cover **at least 10 years** of SE experience claimed by the applicant
  • References must be knowledgeable in Systems Engineering and have at least five years of relevant experience
  • Must be documented on the INCOSE reference form

INCOSE SEP Program Overview
ESEP Professional Leadership Requirements

• Minimum of 5 years of professional leadership.
  • **Product Development Leadership** Years
    • Years of leadership in a product development position, such as chief engineer or development team lead
    • 1 year credit for each year in a leadership position - no limit
  • **Technical Society Leadership** Years
    • Leadership of a professional technical society, such as elected officer, appointed committee chair, editor, or thought leader
    • 0.5 year credit for each year of service – no limit
  • **Advanced Academics** Years
    • Technical Master’s degree (or international equivalent)
      • 1 year credit
    • Technical Doctoral degree (or international equivalent)
      • 2 years credit if separate credit is given for a Master’s degree
      • 3 years credit if separate credit is not given for a Master’s degree
    • Systems engineering graduate-level teaching
      • 1 year of credit for each 500 hours of classroom instruction spread over a 3 year time period, limited to a maximum of 3 years
    • Category limited to a maximum of 4 years credit
ESEP leadership verified by oral review

- Applicant must be willing to participate in an oral review
  - Purpose of the oral review is to confirm the applicant is a Systems Engineering leader and to verify the applicant's accomplishments and experience
  - The oral review questions are in behavior-based format
- At least two (2) of the references must be willing to participate in an oral review (if required)
  - Purpose of the reference oral review(s) is to confirm/supplement the applicant's information
- The oral reviews
  - Are done via phone
  - Typically do not exceeding 60 minutes (30 minutes for references)
  - Are in the English language
  - Are conducted by an evaluation panel consisting of INCOSE ESEPs trained as Certification Application Reviewers (CARs)

The oral reviews focus on verifying the applicant's leadership, accomplishments, and experience.
How Long Will It Take to Get CSEP?
There is no one answer. Much depends on the applicant.

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<thead>
<tr>
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<th>Duration</th>
<th>Description</th>
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<tr>
<td>A. ???????</td>
<td></td>
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<tr>
<td>B. &lt; 2 weeks</td>
<td></td>
<td></td>
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<tr>
<td>C. Averaging 50 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Approx. 30 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. Averaging 62 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F. &lt; 2 weeks</td>
<td></td>
<td></td>
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</tbody>
</table>

**Applicant**
- Downloads information from INCOSE web page
- Collects information
- Fills out and submits forms via e-mail
- Pays fee on-line

**References** submit recommendations via e-mail to INCOSE. **Applicant** submits missing material.

**Applicant**
- Schedules exam with test organization
- Takes exam at test site
- Receives results immediately
- Schedules exam, if needed

INCOSE
- Receives application & fee
- Checks completeness of submittal
- Notifies applicant by e-mail that application was received and is complete or has missing material

INCOSE
- Receives recommendations from references and missing information
- Evaluates education and experience
- Notifies applicant of evaluation results. If minimum requirements are met, authorizes exam

INCOSE sends CSEP certificate via postal mail to applicant

While the times vary, the average time for CSEP is ~200 days.
Certification maintained through continuing education or re-test

- Certification is Valid for
  - 3 Years for CSEP, and must maintain INCOSE membership
  - 5 Years for ASEP and must maintain INCOSE membership
  - Indefinite for ESEP, must maintain INCOSE membership
  - Extensions (e.g., Acq) are renewed concurrent with the base certification, regardless of when earned

- Certification renewal requires
  - Minimum of 120 Professional Development Units (PDUs)
  - Or, pass knowledge exam again once certification expires
## PDUs for Certification Renewal (1 of 2)

### Professional Development Activities
(All must be relevant to the practice of systems engineering)

<table>
<thead>
<tr>
<th>Technical Society Participation Category</th>
<th>Credit</th>
<th>3/5 Year Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Be an INCOSE individual, senior, or student member</td>
<td>5 PDU/year</td>
<td>15 PDU</td>
</tr>
<tr>
<td>Attend non-peer-reviewed professional technical society event</td>
<td>1 PDU/hour</td>
<td>30 PDU</td>
</tr>
<tr>
<td>Attend peer-reviewed professional technical society event</td>
<td>1 PDU/hour</td>
<td>No limit</td>
</tr>
<tr>
<td>Participate on professional technical society working groups, committees, etc.</td>
<td>1 PDU/hour</td>
<td>No limit</td>
</tr>
<tr>
<td>Perform leadership role in professional technical society at local, national or international level</td>
<td>1 PDU/hour</td>
<td>No limit</td>
</tr>
<tr>
<td>Volunteer activities with youth in schools or community related to science, technology, engineering, and math (STEM)</td>
<td>1 PDU/hour</td>
<td>72 PDU</td>
</tr>
<tr>
<td>Volunteer activities with community, school, or non-profit organizations that help them accomplish their technical needs</td>
<td>1 PDU/hour</td>
<td>30 PDU</td>
</tr>
<tr>
<td>Earn an SE-relevant, exam-based, professional certification other than INCOSE SEP</td>
<td>5 PDU/certification (Up to 2 per renewal period)</td>
<td>10 PDU</td>
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## PDUs for Certification Renewal (2 of 2)

### Professional Development Activities
*(All must be relevant to the practice of systems engineering)*

<table>
<thead>
<tr>
<th>Category</th>
<th>Activity Description</th>
<th>Credit</th>
<th>3/5 Year Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE Course Work &amp; Publication Category</td>
<td>Complete a technical graduate level course</td>
<td>2 PDU/class hour</td>
<td>No limit</td>
</tr>
<tr>
<td></td>
<td>Attend educational course, tutorial, or seminar</td>
<td>1 PDU/hour</td>
<td>No limit</td>
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<tr>
<td></td>
<td>Teach professional development coursework, including presentations not part of job function.</td>
<td>2 PDU/hour (prep) 1 PDU/hour (teach)</td>
<td>40 PDU</td>
</tr>
<tr>
<td></td>
<td>Write &amp; publish SE article</td>
<td>5 PDU/article</td>
<td>No limit</td>
</tr>
<tr>
<td></td>
<td>Write &amp; publish SE book</td>
<td>30 PDU (primary author)/book 10 PDU (contrib. author)/book</td>
<td>No limit</td>
</tr>
<tr>
<td></td>
<td>Attend vendor presentation with educational value</td>
<td>1 PDU/hour attendance</td>
<td>15 PDU</td>
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<tr>
<td></td>
<td>Consume SE-related media, including journal article, book, video, or audio</td>
<td>1 PDU/hour</td>
<td>15 PDU</td>
</tr>
<tr>
<td>SE Job Function Participation Category</td>
<td>Receive patent award</td>
<td>10 PDU/award</td>
<td>No limit</td>
</tr>
<tr>
<td></td>
<td>Serve as designated lead systems engineer for a system, product or service</td>
<td>15 PDU/year</td>
<td>45 PDU</td>
</tr>
<tr>
<td></td>
<td>Lead organization to increase INCOSE systems engineering certifications</td>
<td>5 PDU/year</td>
<td>15 PDU</td>
</tr>
<tr>
<td></td>
<td>Volunteer (i.e., non-compensated) activities within your organization related to engineering and science</td>
<td>1 PDU/hour of effort</td>
<td>30 PDU</td>
</tr>
</tbody>
</table>

*INCOSE SEP Program Overview*
Any Questions?

Certification Office: certification@incose.org

Courtney Wright, CSEP
Certification Program Manager: Courtney.Wright@incose.org

For more information visit: www.incose.org/certification/
INCOSE SEP Program Overview

This briefing was created from information from various INCOSE sources as indicated in the Notes section of this slide. Send comments to certification@incose.org.
Guide Break out Time

Ask questions, discuss lesson learned, gain more insight into the IW experience