

INCOSE Systems Engineering Handbook

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INCOSE. 2012. *Systems Engineering Handbook: A Guide for System Life Cycle Processes and Activities*, version 3.2.2. San Diego, CA, USA: International Council on Systems Engineering (INCOSE), INCOSE-TP-2003-002-03.2.2.

INCOSE. 2015. *Systems Engineering Handbook: A Guide for System Life Cycle Processes and Activities*, version 4.0. Hoboken, NJ, USA: John Wiley and Sons, Inc, ISBN: 978-1-118-99940-0.

INCOSE. 2023. *Systems Engineering Handbook: A Guide for System Life Cycle Processes and Activities*, version 5.0. Hoboken, NJ, USA: John Wiley and Sons, Inc, ISBN: 978-1-119-81429-0.

Usage

This source is considered a primary reference for the following articles (see annotation below):

- Introduction to Systems Engineering
- Scope and Context of the SEBoK
- Systems Engineering: Historic and Future Challenges
- Systems Engineering Core Concepts
- What is a System?
- Systems Thinking
- Engineered System Context

- Systems Engineering and Management
- Life Cycle Models
- Incremental Life Cycle Model
- Vee Life Cycle Model
- System Concept Definition
- Business or Mission Analysis
- System Definition
- System Requirements
- Logical Architecture Model Development
- Physical Architecture Model Development
- System Realization
- System Integration
- System Validation
- System Verification
- System Deployment
- Operation of the System
- System Maintenance
- Information Management
- Planning
- Assessment and Control
- Product and Service Life Management
- Service Life Extension
- Capability Updates, Upgrades, and Modernization
- Disposal and Retirement
- Deploying, Using, and Sustaining Systems to Solve Problems
- Team Capability
- Affordability
- Stakeholder Responsibility
- Integrating Supporting Aspects into System Models

Annotation

The *Handbook* summarizes the baseline knowledge of systems engineering (SE). It is used in the KA to help identify how general systems ideas apply to SE. This reference provides the engineered system perspective on systems and an overview of the common SE life cycle and processes.

Note, the most recent version of the INCOSE Handbook is v5.0 published in 2023. Where appropriate, the SEBoK

makes specific reference to this new version. However, in many instances the reference remains to v4.0 until a thorough review of the reference has been completed.

SEBoK v. 2.10, released 06 May 2024

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