

# Category:Glossary of Terms

From SEBoK

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This is the official SEBoK Glossary of Terms. The SEBoK Author Team has striven to identify one or two definitions which reflect the current thinking on these terms in the systems engineering community.

Below, please find an alphabetical listing of all terms currently identified in the SEBoK.

**View acronyms and abbreviations used in the SEBoK.**

## Pages in category "Glossary of Terms"

The following 364 pages are in this category, out of 364 total.

### A

- absorption
- abstract model
- abstract syntax
- abstraction
- acceptance criteria
- acceptance sampling
- acquirer
- acquisition
- acquisition strategy
- adaptability
- adversity
- aggregate
- agile
- agility
- agreement
- analytical model
- antipattern
- architecting
- architecture
- architecture framework
- assembly procedure
- assembly tool
- assessment criterion
- assessment score
- attribute
- availability

## **B**

- baseline
- behavior
- behavioral architecture
- binding
- black-box system
- body of knowledge
- boundary
- business
- business process
- business process outsourcing

## **C**

- call center
- capability
- capability management
- capacity
- case study
- chaos
- closed system
- coercive
- cohesion
- competency
- complex
- complex adaptive system (cas)
- complexity
- complexity avoidance
- component
- computer simulation
- concept
- concept definition
- concept of operations (conops)
- concrete syntax
- concurrent
- concurrently
- configuration
- configuration management
- constraint
- control
- cost
- critical design review (cdr)
- critical systems thinking
- culture
- customer
- cyber-physical systems
- cybernetics

## **D**

- data center
- decision gate
- decision management
- defense in depth
- demonstration
- derived requirement
- descriptive model
- design
- design factor
- design life
- design property
- digital twin
- disposal
- disruption
- domain
- drift correction
- drift correction
- dualism

## **E**

- e-services
- effectiveness
- element
- emergence
- emergent behavior
- emergent property
- enabling system
- encapsulation
- engineered system
- engineering
- engineering change management
- engineering change proposal (ecp)
- enterprise
- enterprise architecture
- enterprise system
- enterprise systems engineering (ese)
- entropy
- environment
- ethics
- evolutionary
- executable system model
- extended enterprise

## **F**

- failure
- failure modes and effects criticality analysis

- federation of systems (fos)
- flexibility
- form, fit, function, and interface (f3i)
- framework
- function
- functional architecture
- functional redundancy

## **G**

- general system theory
- Glossary:Cognitive Bias
- Glossary:Principle
- governance
- green engineering

## **H**

- habitability
- hard system
- hardware-in-the-loop testing
- healthcare
- healthcare systems engineering
- heuristic
- hierarchy
- high reliability organizations (hros)
- holism
- holistic
- homeostasis
- human factors
- human in the loop
- human survivability
- human systems integration (hsi)

## **I**

- implementation
- in-process validation
- increment
- incremental
- industrial engineering
- information and communications technologies (ict)
- information category
- information need
- information technology
- infrastructure
- input
- input-output flow
- installation
- integrated product team (ipt)

- integration
- integrity
- inter-node interaction
- interface
- internode interaction
- interoperability
- issue
- iteration

## **K**

- knowledge

## **L**

- latent
- leader
- lean systems engineering (lse)
- lean value stream mapping
- legacy system
- leverage
- life cycle
- life cycle cost (lcc)
- life cycle management
- life cycle model
- life cycle process
- localized capacity
- logical architecture
- logistics
- loose coupling

## **M**

- maintainability
- maintenance
- manpower
- market analysis
- measurable concept
- measure
- measure of effectiveness (moe)
- measure of performance (mop)
- measurement
- meta-model
- metric
- milestone
- mission
- mission analysis
- mission engineering
- model
- model management

- model transformation
- model validation
- model-based systems engineering (mbse)
- modeling language
- modeling tool
- modularity

## **N**

- natural system
- network
- neutral state
- node
- non-functional requirements

## **O**

- occupational health
- open system
- operational
- operational capability
- operational concept
- operational environment
- operational mode
- operational scenario
- operations research
- opportunity
- organization
- organizational
- organizational capability
- output

## **P**

- paradigm
- pattern
- personnel
- physical architecture
- physical interface
- physical model
- physical redundancy
- plan
- pluralist
- portfolio
- portfolio management
- postmodernist
- praxis
- preliminary design review (pdr)
- principle
- problem

- process
- procurement
- product
- product system
- program
- program management
- project
- project management
- prototype
- proving
- purpose
- purposeful
- purposive

## **Q**

- qualification
- quality

## **R**

- rationale
- recovery
- recursion
- reductionism
- redundancy
- regularity
- reliability
- reparability
- requirement
- resilience
- restructuring
- reverse engineering
- risk
- risk management
- robustness

## **S**

- safety
- scalability
- scenario
- scope
- security
- semantic interoperability
- semantics
- service
- service life extension (sle)
- service science
- service system

- service systems engineering
- service value chain
- set driver
- set modifiers
- set-based design
- simulation
- simulator
- six sigma
- social system
- sociotechnical system
- soft system
- soft systems methodology
- software
- software assurance
- software engineering
- software system
- software-in-the-loop testing
- solution
- specialty engineering
- stage
- stakeholder
- stakeholder requirement
- state
- statistical process control
- structure
- supplier
- survivability
- sustainment
- synectics
- synergy
- synthesis
- system
- system analysis
- system assurance
- system boundary
- system breakdown structure
- system capability
- system context
- system coupling diagram
- system definition
- system deployment and use
- system element
- system of systems (sos)
- system property
- system realization
- system requirement
- system-of-interest
- systems approach
- systems biology
- systems concept
- systems development



- systems engineer
- systems engineering
- systems engineering management (sem)
- systems engineering plan (sep)
- systems integration
- systems science
- systems thinking

## **T**

- tailoring
- team
- technical performance measure (tpm)
- temporal architecture
- test cases
- threat
- tolerance
- total ownership cost
- traceability
- training
- transition of modes

## **U**

- uncertainty
- unitary
- use case
- useful life
- user

## **V**

- validation
- value
- variety
- vee (v) model
- verification
- verification and validation action
- verification and validation configuration
- verification and validation procedure
- verification and validation tool
- viable
- view
- viewpoint
- vignette

## **W**

- white-box system
- wicked problem

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