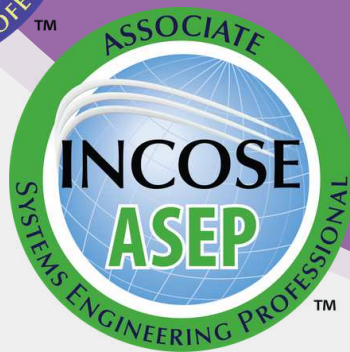


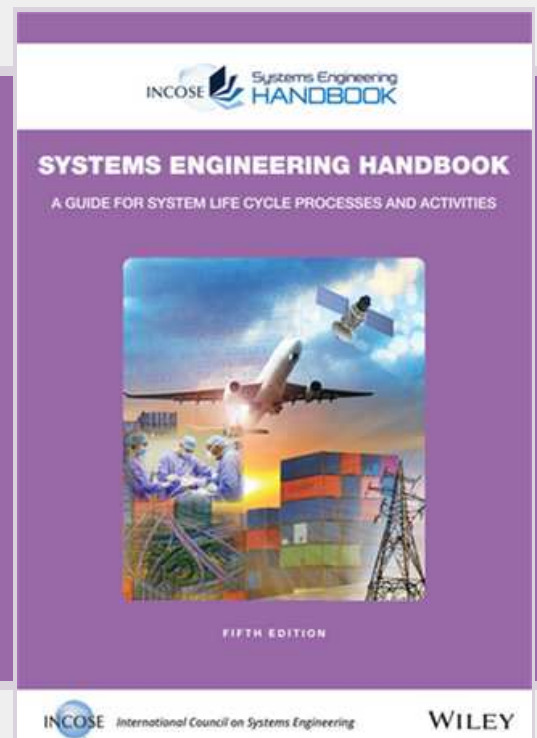


INCOSE SYSTEMS ENGINEERING HANDBOOK LEARNING OBJECTIVES



The INCOSE Systems Engineering Handbook Learning Objectives (LOs) became effective for the knowledge exam on **1 August 2023**.

As of **15 March 2025**, the knowledge exam transitioned to focus solely on SEH5E content. Academic Equivalency providers (universities) applying or renewing are evaluated based on this list of LOs.



For more information, visit incose.org/sehandbook

INCOSE Learning Objectives	INCOSE Systems Engineering Handbook
	5th Edition
Systems Engineering and Life Cycle Overview <ul style="list-style-type: none"> Identify systems engineering definitions, principles, and concepts Define awareness level concepts of systems thinking 	Part 1
Lifecycle Models and Concepts <ul style="list-style-type: none"> Define awareness level concepts for lifecycles Define awareness level concepts of acquisition and supply Define awareness level concepts of business and enterprise integration <i>(Includes Infrastructure, Portfolio, Human Resources, Knowledge, Quality Management, and Quality Assurance)</i>	Part 2
Technical Management Processes <ul style="list-style-type: none"> Define awareness level concepts of planning Define awareness level concepts of monitoring and control Define awareness level concepts of decision management Define awareness level concepts of risk and opportunity management Define awareness level concepts of configuration management Define awareness level concepts of information management 	Part 2
Technical Processes <ul style="list-style-type: none"> Define awareness level concepts of requirements definition Define awareness level concepts of architecture definition Define awareness level concepts of design for systems realization Define awareness level concepts of modeling and analysis Define awareness level concepts of integration Define awareness level concepts for verification Define awareness level concepts for transition Define awareness level concepts for validation Define awareness level concepts for operation and support 	Part 2
Methods and Analysis <ul style="list-style-type: none"> Define awareness level concepts of design for quality characteristics Define awareness level concepts for interfaces 	Part 3
Application Considerations <ul style="list-style-type: none"> Define how systems engineering is applied <i>(Includes MBSE, Agile, Lean, PLE, System Types, Domains)</i>	Part 4
Systems of Systems <ul style="list-style-type: none"> Define the complexities of a System of Systems 	Part 4
Systems Engineering in Practice <ul style="list-style-type: none"> Identify aspects of systems engineering in practice 	Part 5