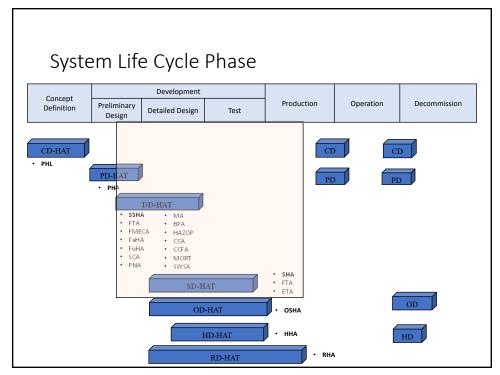
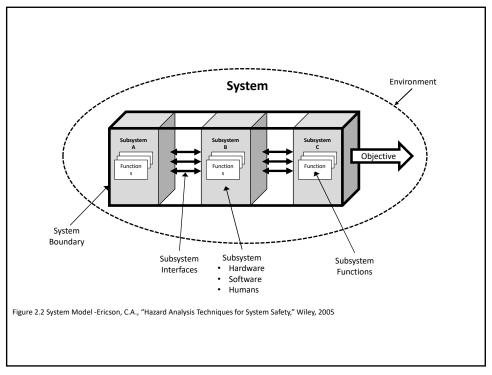
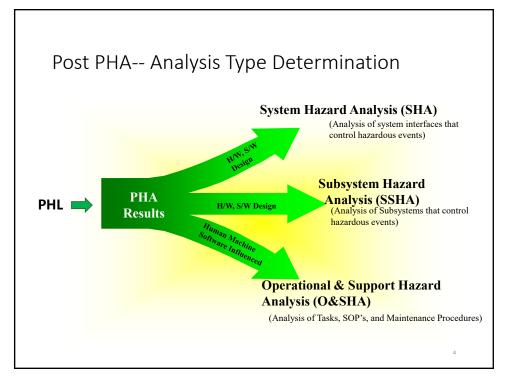
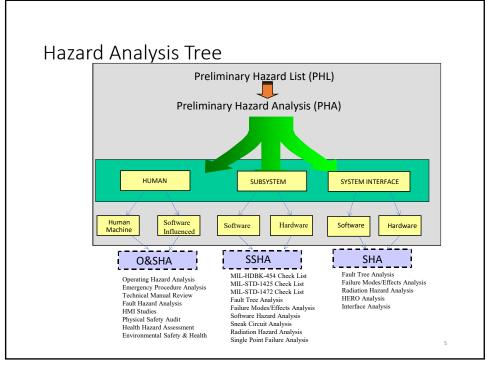
SubSystem Hazard Analysis (SSHA) Ch 9 System Hazard Analysis (SHA) Ch 10

1



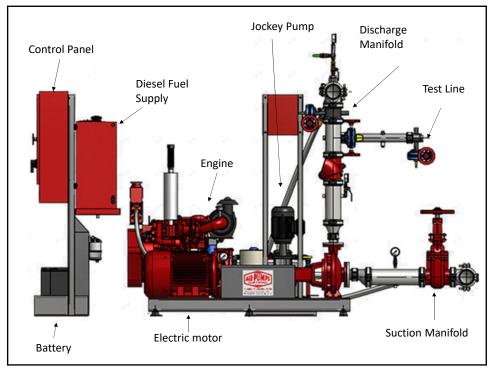




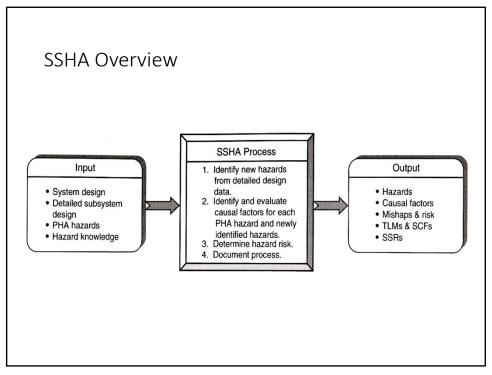


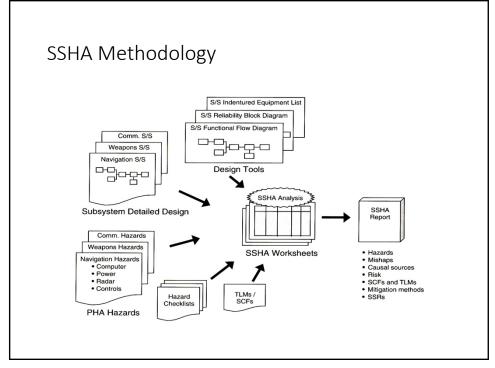
Indentured Equipment

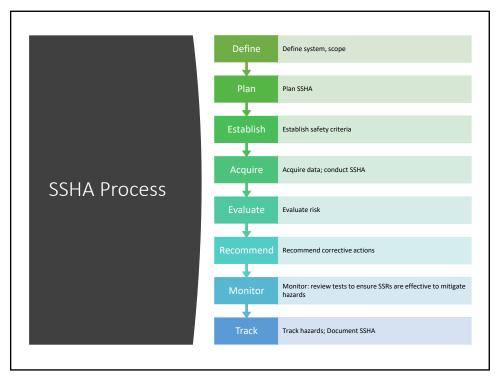
- System components in a hierarchy that defines dominant and subordinate relationships between subsystems down to the lowest piece/part level
- •The indenture or hierarchy levels progress downward from the more complex high-level system elements to the simpler part/component elements.



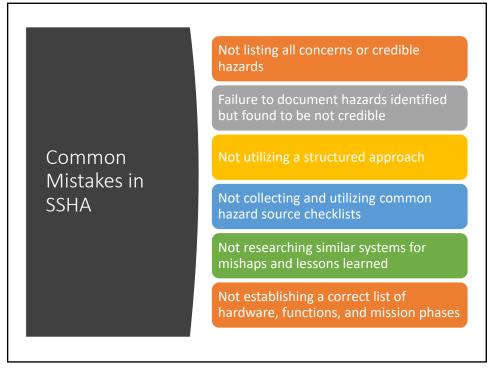
No.	Indentured Equipment List	
1.0	Dominant Component (Sub-assembly)	
		1.1 Subordinate Component
		1.2 Subordinate Component
		1.2 Subordinate Component
2.0	Dominant Component (Subassembly)	
		2.1 Subordinate Component
		2.2 Subordinate Component
		2.3 Subordinate Component
3.0	Dominant Component (Subassembly)	
		3.1 Subordinate Component
		3.2 Subordinate Component
		3.3 Subordinate Component

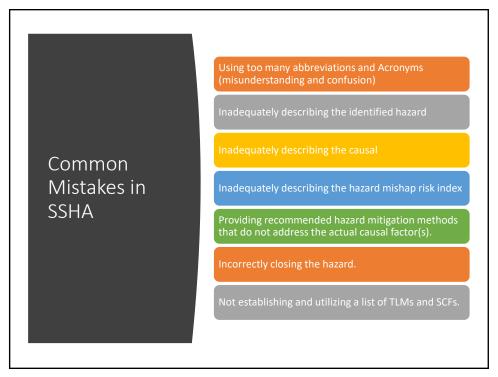






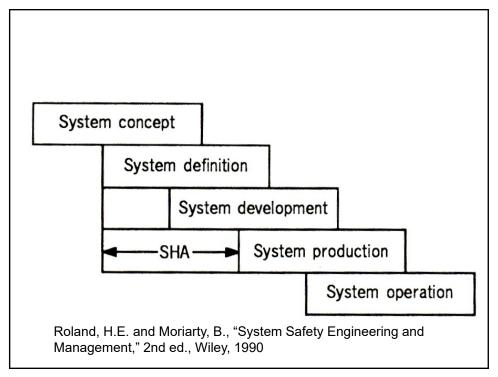
SSHA Worksheet System: 1 Subsystem: Analyst: Date: (3) (2 **Subsystem Hazard Analysis** (4 Recommended Action Mode IMRI Causes Effects Status 9 6 7 8 10 (11) (12) (13) 14 (5)

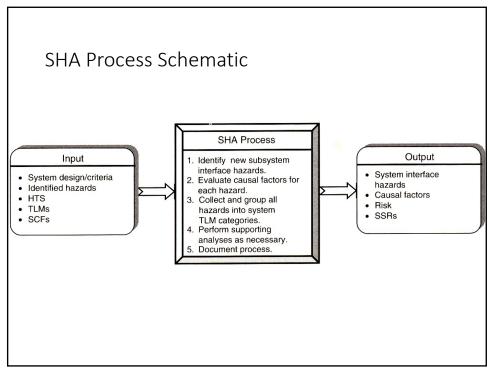


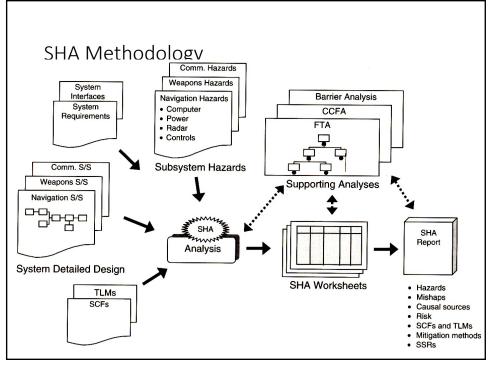


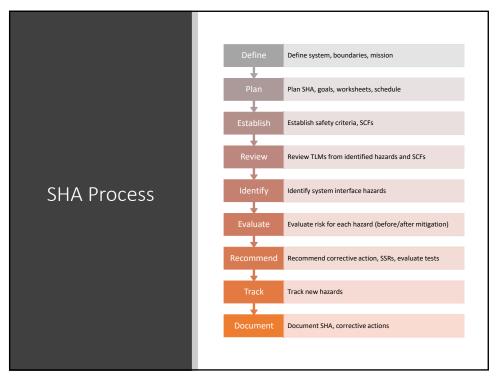
System Hazard Analysis (SHA) Chapter 10

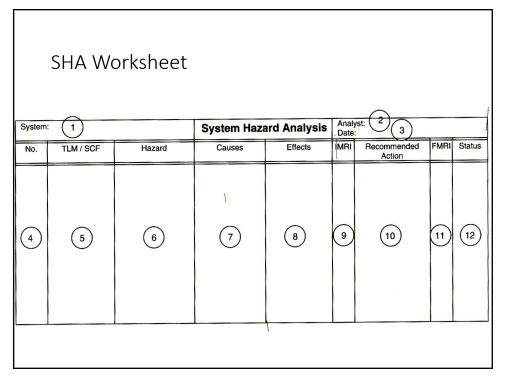
15











SHA Advantages

- Identifies System interface-type hazards
- Consolidates hazards to ensure that causal factors are thoroughly investigated and mitigated
- Identifies critical system-level hazards that must be evaluated in more detail through the use of other analysis techniques.
- Provides the basis for making an assessment of overall system risk.

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Common Mistakes

- Not thoroughly investigating causal factors
- Risk Index doesn't match identified effects
- Closing hazards prematurely without complete causal factor analysis
- Failure to analyze common cause events and dependent events
- Using Fault Trees in place of SHA

