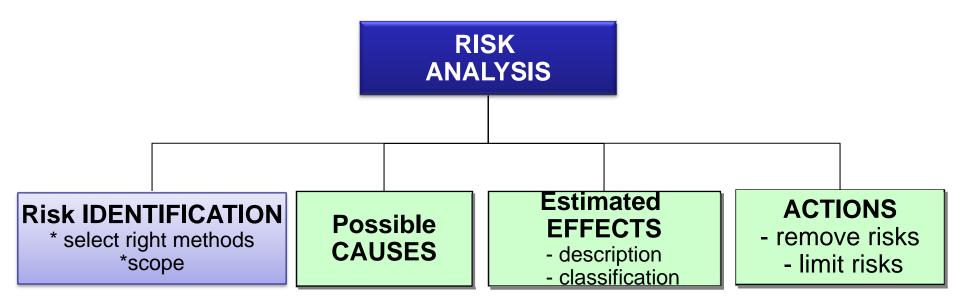
Risk Analysis

'Risk Identification Methods'



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Risk Analysis – Scope

Risk Identification

Define Scope and Select the Right Methods - Unidentified Risks cannot be Analyzed!

2.System or Process Risks

5. Plant Area

- departments, layout
- utilities, traffic, storage



3.Operation, Maintenance, Risks (people)

- 1) Action errors connected to system states
- 2) Exposure (in duty):
 - Maintenance, service, repair,
 - Operator actions, errors

4.Automation Risks

- process control, protection, interlocks, sequences – in different system states ->Hazards

System structure: subsys + equipm, System operational states: startup, operation, shutdown, emerg shutdown..



Component failures
Functional failures



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