

John G Hooper
Director of Education Partnerships

What is Systems Engineering

Some Issues

- Complexity
- Uncertainty
- Incomplete Information
- Life Cycle
- Legacy Systems
- Unknown Future Technology
- User Requirements
- Interfaces

Systems Engineering

- Holistic
- Structure & Dependencies
- Emergent Behaviour
- Stakeholders' Perspectives
- Optimisation

If you can understand:-

- User requirements
- Who are stakeholders
- The system boundary
- The system environment
- The system interfaces

Then move on to an optimal system design which can be verified and validated – you are *reducing risk* and applying *Systems Engineering*