Lean Course Outline

- Introduction to Lean
  - Lean Operations
  - Lean Manufacturing
  - Lean Design
- History of Lean
  - Lean Principles to Improve Design
  - Product Development in a Lean Environment
- Lean Principles
  - 7 Wastes
  - Achieving More Value with Less Effort
- Lean Design Principles
  - Practical Application Techniques of Lean
  - Measuring Waste (Muri, Mura, Muda) in a Design Activity
- Value Stream of Design Process
- The Product Plan (Muri)
  - Safety, Quality, Cost, Velocity
  - Cadence
  - Design Task (Design Review)
  - Measurement of Risk
- The Process Plan (Muri)
  - Surrogate Process Selection
  - Measurement of Capability
  - Planning and Executing the New Manufacturing Cell Around the Theoretical Seven Wastes
- Validation of Plans and / or Improvements (Mura)
- Relentless Never Ending Continuous Improvement (Muda Feedback)