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)