

Lean Product Development™

Description:

Lean Product Development™ (LDFSS)

The Lean Product Development for Six Sigma or Lean DFSS training methodology can be considered a second generation of the widely adopted Design For Six Sigma. The simplified notion is to design quality and "leanness" into the product before it ever gets to the manufacturing floor where Lean/Six Sigma Black Belts are working. In the ideal world Lean Product Development™ Black Belts put Lean/Six Sigma Black Belts to work on only manufacturing problems with no design related problems being "solved" once production begins. Lean Product Development™ Black Belts often work side-by-side with their Lean/Six Sigma counterparts, using their expert knowledge to solve process problems even before they happen. Included in Lean Product Development are the Six Sigma Tools, DFSS tools and Lean Manufacturing tools and concepts that can be used by engineers working on new designs.

How does Lean Product Development differ from Six Sigma or Lean-Sigma?

Lean Sigma and Six Sigma target manufacturing and other business processes, whereas the Lean Product Development™ methodology focuses within the product development on a particular product. Lean/Sigma Black Belts are taken from their existing functions to become a "fire-brigade", tackling problem processes. Lean Product Development™ belts tend to remain within their functions applying a stronger toolkit and design problem solving methodology.

Benefits of undertaking Lean Product Development™ training come from the following:

- Improved quality at product launch, because the product is more tolerant to variation in both the supplied components and the manufacturing process itself and has fewer raw material components
- Faster development time
- Increased revenue due to the product being perceived of higher value by the customer
- Reduced inventory costs due to fewer components and more re-use of components across products i.e. fewer unique parts
- Reduced assembly times because the product has fewer components and those that it does have are easier to manufacture
- Reduced product cost by better selection of material and manufacturing process

Program Overview

- Business Case (understanding the market)
- Concept Development (understanding the customer)
- Lean Concepts
- Platform / System Architecture
- Introduction to Statistics
- Understanding manufacturing
- Product Design for manufacturability
- Optimizing the product
- Moving to capable manufacturing

Expert Lean Product Development Consulting is available in the following areas:

- **New Product Development (NPD)** - Consulting in any stage of development for a new product, be it concept, design, optimization or launch.
- **NPD or Stage Gate Process Assessment** - If a new product development process or pipeline is not working as it should, an NPD assessment over several days with precise feedback on what needs to change and why.
- **Specific Tools Implementation** - Kano Analysis, KJ, Pugh Concept or Design for Assembly