

INT 144: F.A.M.E. MANUFACTURING CORE EXERCISE 3, LEAN MANUFACTURING

This course introduces the Federation of Advanced Manufacturing Education (FAME) MCE-3 (Manufacturing Core Exercise) for Lean Manufacturing. Students will be introduced to a systematic method for waste minimization (AKA: Muda) within a manufacturing system, without sacrificing productivity. Lean also takes into account waste created through overburden (AKA: Muri) and waste created through unevenness in workloads (AKA: Mura). The Lean management philosophy will be clearly defined and explained with experiential exercises, reinforcing the following concepts:

1. The value-added product
2. The maintenance value-added product
3. Value-added work and necessary work
4. How this leads to increased profit
5. Workload unevenness (Mura)
6. Waste created through overburden (Muri)
7. The seven areas of non-value-added waste (Muda): conveyance, correction, motion, over-production, over-processing, waiting and inventory

Credits: 1

Lab Hours: 0

Lecture Hours: 1