

Continual Improvement Champion: Value Engineering and Design For (X)

This continual improvement course, “Value Engineering and Design for Excellence”, teaches you how to help teams get involved in improvement and create immediate, sustainable product and operation improvements.

Value Engineering (VE) and Design for Excellence (Df(x)) helps:

- Engage team members in improving the business
- Increase pride and ownership of improved products
- Identify component and assembly design changes that significantly reduces product costs
- Reduce operating costs
- Increase margin and profitability of products

Value Engineering and Functional Analysis

What:

- Improve and simplify designs or processes in order to provide the lowest cost solution to meet the functional needs of the customer

Why:

- Reduce cost
- Reduce cycle time
- Increase customer satisfaction

Where to use:

- Address product or process functions that do not meet customer needs; Need to be more cost competitive

- Develop **function-based** cost model
- Evaluate alternatives
- Redesign the product or process

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Design for eXcellence Df(X)

What:

- Improving designs and information by employing principles, methods, and work processes to enable the use of the easiest and highest value-added work process to be used in the products' fabrication and use.
- DF(X) Design for Excellence – designing to improve any or all relevant life cycle factors such as manufacturability, assembly, testability, maintainability, etc.

Why:

- Simplify design & processing
- Reduce cycle time & costs
- Improve customer satisfaction

Design for X, X=

- Assembly
- Constructability
- Disassembly
- the Environment
- Manufacture
- Service
- Transportability

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Deliverables:

- **Training** in Value Engineering and Design for Excellence processes
- **Application** knowledge by co-leading a team through an actual Value Engineering and Design for Excellence improvement projects that produce results for the organization and application knowledge
- One-on-one **Coaching** during classroom exercises, during and after the application
- **Certification** with classroom comprehension, application results, use of method, and team survey.
- And **membership** (one year free) into the Continual Impact Community of improvement practitioners

Goal: To increase your knowledge and skills of the Value Engineering and Design for Excellence methods and be able to use it to critically analyze the value of every product component, decrease product, processing, and operating costs.

Knowledge and Skills Gained:

- Ability to identify opportunities for the VE and Df(x) improvement method
- Ability to prepare and perform Value Engineering and Design for Excellence projects – step by step, again and again
- The processes to follow, techniques and templates to use for analyzing, identifying, evaluating, and installing the solutions, measuring performance, and continually improving.

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Who Should Participate? Continual Improvement Champions - those selected to create significant organization improvements and benefits by leading teams through eliminating specific wastes and problems with targeted improvement methods

Agenda:
Training
1. The role of a Continual Improvement Champion in leading the method
2. How to lead a team through the Value Engineering process a) Confirming and Preparing the team, b) How to perform the process, c) Gather and analysis current state data (customer, regulatory, costs and processes (procure, fabricate, assemble, inspect, rework, ship, warranty)), d) Functional analysis, e) Identifying alternative ways to satisfy functions, f) Prioritizing, selecting, testing, and implementing improvements
3. How to lead a team through the Design for Excellence process a) How to perform the process, b) Cost analysis, c) Define “x”, d) Evaluate current practices, e) Identifying, prioritizing, and selecting cost reduction areas, f) Testing and implementing improvements
Application with the team
<ul style="list-style-type: none"> ▪ One-on-one coaching to confirm/prepare for initial application ▪ On-site project, with coach as co-lead (real, immediate application and results)
Certification (after completion of additional project)
<ul style="list-style-type: none"> ▪ Review of project selection (Confirm/Prepare) ▪ Project documentation review and team survey & CERTIFICATION RECOGNITION!

Time Frame:

- 5 days (or 40 hours) classroom training (tell, show, do, recycle framework)
- ~6 days (or 48 hours) of on-site project co-lead
- One-on-one coaching during training, project, and certification

	Week 1 3 days	Week 2-3	Week 4 2 days	Week 5-8	Week 9-10
Training	Training	Application Coaching	Training	Application Coaching	Documentation Certification