

# VALUE ANALYSIS AND VALUE ENGINEERING

*eLearning courses designed to increase productivity and profits*



**Learning made Simple, Visual, and Interactive**

The purpose of this course is to educate employees on the concepts and principles of the Value Methodology, and to equip them to productively participate in a value study.

Credit Hours **2**

## Learning Objectives

- 💡 Learn the principles and practices of the Value Methodology process.
- 💡 Understand the value methodology process and learn to think about products and processes in terms of functions.
- 💡 Identify and classify functions.
- 💡 Construct FAST diagrams.
- 💡 Learn to prioritize ideas using ranking matrices.

## Table of Contents

### I. Value Methodology Concepts

- Value Methodology Terminology
  - o Value
  - o Function
- Value Methodology Phases

### II. Value Methodology Process

- Preparation Phase
- Information Phase
- Function Phase
  - o Function Identification
  - o Function Classification
    - Scope Lines
    - Function Logic Path
    - Higher Order Function
    - Lower Order function
    - FAST Diagram

### • Function Phase

- o Function Identification
- o Function Classification
  - Scope Lines
  - Function Logic Path
  - Higher Order Function
  - Lower Order function
  - FAST Diagram
- o Function Prioritization
  - Step 1
  - Step 2
  - Step 3
  - Step 4
  - Step 5
  - Step 6
  - Step 7

- Creativity Phase
- Evaluation Phase
- Development Phase
- Presentation Phase

### III. Case Study

- Pre-Function Phases
- Function Phase
  - o Function Identification
  - o Function Classification
  - o Function Prioritization
- Post-Function Phases

