



VALUE ENGINEERING

Introduction

Value Engineering is a methodology and an organized process to identify opportunities to remove unnecessary costs while assuring the quality, reliability, performance, and other critical factors still meeting and exceeding the customer's expectations.

VE is a tool for organization needs to survive and stay ahead of the competition. Cost reduction (VA) has a limit. Organization must find new values for their products – create, innovate, revolve and evolve! Many fortune 100 companies had disappeared through only taking cost reduction alone. Customers today are very conscious of what they are paying for. Price is not an only driven factor, of which many sellers had mistaken. A low price product gives a low perception of an organization name and brand.

Value Engineering not only equals price reduction but it provides higher values for the products with right cost and price and ultimately, to increase sales and profit.

Course Objectives

After completing the lessons, participants will be able to:

- Understand the concept of various kinds of values.
- Define value engineering, value analysis and value management, apply the concept and technique of value engineering.

Course Contents

CHAPTER 1:

- 1) The development of VE in industry
- 2) Definition of VE/VA techniques

CHAPTER 2:

- 1) Application of VE techniques
- 2) Implementing VE projects in an organization
- 3) Elements of VE
- 4) Questions to be addressed
- 5) Steps involved in implementing VE projects
- 6) Comparison of approaches adopted in conventional cost Reduction method & VE efforts



CHAPTER 3:

- 1) The scheduling of VE activity
- 2) Cost & Value Information
- 3) Value Index

CHAPTER 4:

- 1) A philosophy in industry of VE
- 2) VE Application concept
- 3) Function Phase
- 4) Creative phase/Speculation phase
- 5) Evaluation phase
- 6) Investigation phase
- 7) Execution phase
- 8) Recommendation Phase

CHAPTER 5:

- Voice of Customers
- Design using Quality Function Deployment (QFD)
- An illustration as to how to translate Customer's needs into CTQ
- Critical To Quality Characteristics (CTQ) Specification factors,
- Flow down etc
- Design Targets
- Reliability and Quality Targets
- Bill of materials (BOM)
- Design Failure Mode and Effects Analysis (DFMEA) - Types etc
- Design for X (DFM, DFA, DFT, DFC, DFD etc)
- Design Verification
- Design Review
- Engineering Drawings & Specifications
- Materials Specifications
- Drawing and Specification Modification
- New Equipment & Tooling Requirements

SUPPLEMENTARY MATERIAL

- 1) What is the difference?
- 2) Value program and study team success through Cooperative interplay
- 3) But we are ready do it, and other misunderstandings



Who Should Attend

For Engineer or individual involves in product design and development

Award of Certificate

Certificate of successful completion will be issued to participants who have attended at least 75% of the course.

Course Schedule

Refer to our website.

Course Fees

S\$440 (for SQI Member)

S\$490 (for Non-Member)

GST is not applicable. Price is inclusive of two tea breaks.

(SDF funding available for SME Only – Application via www.sdf.gov.sg)

Course fees are subjected to change with prior notice.

Training Venue

Training will be conducted in SQI 66 Tannery Lane #06-07 Sindo Building S 347805.

For more information, please contact :

SQI International Pte Ltd (SQII)

66 Tannery Lane #01-01G Sindo Building Singapore 347805

Tel : (65) 6749 0728 / 6746 0651

Fax : (65) 6746 1351

Email enquiries@sqiisolutions.com

Website: <http://www.sqiisolutions.com>

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