

What is it

What does it add?

How can I use it?

Adds an approach
 techniques
 knowledge

Use them when they fit

Quality - quantity - type
 process
 \$

To assure or secure appropriate costs

Two parts	People	Technical
Identify	75	25
Implement	90	10

Will show how
 approach - tech. - knowledge changed costs
 from to
 _____ _____
 _____ _____

Value lost - across the board...mktg., eng., etc.
 VA - VE

Since 75% to 90% of problem in people will find most techniques these.

Function

Suit of clothes	1¢ check
200 gals gas	switch blade

Basic steps

Identify
 Evaluate
 Create Alternatives

People

Some wrong ideas - Kirksite
 Some basically wrong approaches -
want it to work
 make it or kill it? rope

Tech - diff. view of problem

Evaluate function

Identify roadblocks

Deal with roadblocks

Decision making

Rules - specs

Generalities

5000 screws

No extremes

water

Warm blood

Personal loss

Emphasis

Function

Practical creativity

Function - cost related knowledge system

Identify - overcome roadblocks

Summary

System of techniques - knowledge

Function-based

Create alternative means for rel. acc. them.

Dealing with roadblocks

Quality and reliability improved.

VALUE ANALYSIS AND ENGINEERING

**Fourteenth Annual Industrial Engineering Institute
University of California
February 2-3, 1962**

**L. D. Miles, Manager - Value Service
General Electric Company
Schenectady, New York**

Value Analysis and Engineering do not necessarily differ from Industrial Engineering in objective, but rather in approach, technique, and emphasis.

Perhaps Value Engineering would be considered by some as a part of Industrial Engineering.

The objective is to assure or secure appropriate costs.

THE APPROACH

The functions which the customer wants are identified clearly, separated by type and degree, and evaluated in terms of dollars, by meaningful comparison.

THE TECHNIQUES

Basic steps of (1) identify and classify function, (2) evaluate it in terms of dollars and (3) cause practical alternatives to be developed, are carried out by means of a seven-phase job plan and thirteen special techniques.

THE EMPHASIS

The use of the appropriate ones of the thirteen techniques for clearly identifying, then overcoming the constant supply of roadblocks, is the area of high emphasis. With this accomplished, the functions are accomplished for their pre-determined value (cost) with no quality impairment.