

DAYTON, OHIO
AIR FORCE

3/18/58

Development Engineers, etc.
Arranged by J. Turner
Accompanied by J. Cimbal

.....LD Miles

Twice the defense \$

What Value Program is and How it relates to Eng. & Development.

1947

Top abilities - value work

Cold Control

Startled

Other examples

Performance Engineering

Value Engineering

What is VA - developing alternates

Quality

Size

Quantities

4 shafts

concrete

What is value

Clock

Lowest cost - rel, perf. function

Function

Work - sell

Waste - un-engineered

Transformer flange

VA and VE system developing alternates

What is it - do - cost - else - cost

Acc. - same perf. - vastly lower cost

Evaluate double nut function

Bolt - 1.10

.18

Joy Stick

Make value full partner with performance

"Our greatest enemy is complication"

Joy stick - quick second lock - exp. in laboratory

Clearly singling out functions

What are they - flap indicators -

Intense search

Why these remove so much cost

6 main reasons Value Engineering can

LACK INFORMATION

LACK IDEA

WRONG BELIEFS

TEMPORARY CONVICTIONS

HABITS

ATTITUDES

Acme thread

Refrig. condens.

Weld segment, arcing horn

Filter

Stud 8¢ - .8¢, blanket

Brake Band

DAYTON

3/21/58

General Center and group of about a half-dozen

Arranged by John Turner

.....LD Miles

Top ability - value work

Startled at resultssamples

Quality

Size

Quantity

Competitive

Military

Value Analysis - performance analysis

Value engineering -

Value is lowest...

Function is

Work

Sell

VA & VE

Skilled second look

What we have

Quick second look what is new

Evaluate functions

Nut

Belt 1.10 - .18

Joystick

Make value work full partner of performance work

Laboratory experience

Evendale experience

Why these remove so much cost

6 main reasons Value Engineering can

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M/

3/28/58

Get the quick second look

For performance engineering - test data
For value engineering - reliable cost data

Specialist does not get value

Generalist does

Refrig. hinge

Refrig. bracket

Greatest enemy to thought is pre-conception

We say -

"No Time"

What are we really saying -

"We - although short have time for performance engineering
- because we have no alternate"

For Value Engineering we have an alternate:

1. take it as is in spite of its staggering costs
2. Value Engineer it

Invest money

Invest time

Get it probably for 1/2 to 1/3 of the cost

Since it is not yet done we are uncertain of the results.

Let's don't forget the

1. warm bleed factor
disposal stud
2. human delay factor
Edison

Close

Quick reference to a few examples

Meter - flap

Knobs

Cover fasteners

Stop nut 4.75 - 23

Value is so poor; i.e.

Costs of reliably performing functions are so much higher than they need
be because...

Value is in reality given cost/secondary actions to performance.

M/

3/28/58