

Com  
Samples

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72-57

BASIC CONCEPTS OF VALUE ENGINEERING

You are Administrators -

GOAL - OUTLINE *Inter relations*  
I DO NOT EXPECT TO RE-SUMMARIZE  
COMPLETE SYSTEM *TELEPHONE*  
VA CONCEPTS ARE  
HAVE ALL AVAILABLE

KNOW ALL

ALWAYS USE ALL NEEDED

~~WHY NEEDED?~~  
WHY NEEDED?

HAVE GOOD IN PERFORMANCE - EDISON

NOW REQUIRE TO GET GOOD COSTS FOR GOOD PERFORMANCE

BAY BRIDGE STORY

PURPOSE OF VE SYSTEM ACHIEVE CUSTOMER WANTS \*NO NONCONTRIBUTING COST

USE VALUES, AESTHETIC VALUES

~~ENGRS. WIFE~~

SYSTEM IS ALL FUNCTIONAL

WHAT DOES CUSTOMER WANT ACCOMPLISHED?

TIE CLASP  
BUTTON  
TAIL  
CEMENT \$50,000

USE FUNCTIONS, AESTHETIC FUNCTIONS

ENGRS' WIVES

ASSOCIATES COSTS WITH FUNCTIONS

NOT WITH OPERATIONS OR PARTS

STUDIES FUNCTIONS FOR CLEARER DEEPER UNDERSTANDING  
REFRIG BRATOR

NAMES WITH VERB AND NOUN

CLASSIFYS BASIC OR SECONDARY

DETERMINES VALUE

CEMENT \$50,000

OR WORTH, OR APPROPRIATE COST -- OF FUNCTIONS IN DOLLARS

What is  
his name?  
Bill SANDERS  
Comm. P.B.S.  
Denny

PROMOTES ACTIONS TO SECURE THEM FOR THAT COST

REQUIRES DISCIPLINED THINKING

BEGINNING WITH MIND-SETTING, OR MIND-TUNING

~~DUST COLLECTOR~~

(BIG PURPOSE IS TO GET MORE OF WHAT WE NEED FROM THE HUMAN MIND)

"WHAT ARE WE - THE PEOPLE TRYING TO DO?" <sup>DUST COLLECTOR</sup>  
help operate a profitable business

FOLLOWED BY "WHAT ARE, WITH THE MONEY SPENT, REALLY TRYING TO ACCOMPLISH?"  
eliminate or minimize dust at lowest cost

THEN FOUR SEPARATE KINDS OF THINKING, EACH THOROLY DONE

INFORMATION SEARCHING

convent 1000  
CLEANUP 1000

ANALYSIS THINKING - FUNCTION STUDY - FUNCTION EVALUATION -

PROBLEM SETTING

How might we End or REDUCE | spend \$4000 max  
1- OVER-FILLS  
2- FULL AIR AT Bottom  
3 USE OF 125 # line  
Auto parts

CREATIVE THINKING - PROBLEM SOLVING

JUDGEMENT THINKING- SOLUTION SELECTION AND IMPROVEMENT

Blind people

OTHER STEPS OF THE JOB PLAN ~~OF THE SYSTEM~~ DEAL WITH

DEVELOPMENT, IMPLEMENTATION, DOCUMENTATION

THRUOUT -----

~~SYSTEM MUST FIND THE UN-EXPECTED HIGH COSTS~~  
SYSTEM MUST FIND THE UN-EXPECTED HIGH COSTS

Management concept  
Eng concept  
Design detail  
Purchase effectiveness

MUST LOCATE AND DEAL WITH ROADBLOCKS  
BRIDGE-STORMS, Quick STORM  
Legal stop actions, Theft.  
MUST MINIMIZE EMBARRASSMENT

RELIEFS FROM PAST  
SUCCESS-S of PAST  
WRONG BELIEFS  
Large forging  
HABITS -  
CODES  
LAWS | TAXES

A SOMETHING FOR SOMETHING SYSTEM THOUGHT- BETTER THOUGHT  
← PATH OF CALF

Now we know why VA well done does well

TO USE SOME

Expectation EACH OF YOU TOMORROW. ~~TO USE SOME~~  
COACHING FOR CHAMPIONS - Better mind preparation  
" thinking -

EXAMPLES  
Cost control 5-3-2 million  
Radiation protection 50,000 - 5,000  
Missile sight light source 52.50 - 3  
Cost municipal tax collection/yr \$200,000 to \$50,000

- 1- MIND PREPARATION
- 2- A DIFF. KINDS THINKING
- 3- PROBLEM MAKING OR SETTING BEFORE SOLVING

Words have no meaning excepting in frame of reference  
 + men playing basketball, one had to soon go to airport.  
 you quite sporting - broke up  
 I can take you any time  
 The hell you can - - in 2 weeks -

so today set frame of reference -  
 Then fill it in

~~WATCH - COACHING OF CHAMP~~

MIND PREPARATION { New addn -

"WHAT ARE WE REALLY TRYING TO DO?"

Nicoien

All tuned together - THEN START

PTA MEETING -  
 DUST SEPARATOR

HERE -  
 SPELL IT OUT SIMPLE WORDS Give on something he will use  
 Get something concrete or teach others

# 4 KINDS OF THINKING

DO EA SEPARATELY & COMPLETELY

## I - INFO SEARCHING

WHAT IS KNOWN

" HAPPENS

Light Bulb

SEARCH FOR MORE & NEW APPLICABLE

LIKE COMPUTED

WHAT DO WE KNOW ABOUT SAVE ST LOUIS -

NO JUDGEMENT NO CREATIVE NO ANALYSIS

## II ANALYSIS

Develop our "feeling" about it  
~~How~~ Organize our Logic " "

WHAT DOES IT MEAN

WHAT DO WE FEEL WE SHOULD & COULD DO

SET PRECISE PROBLEMS

CAN BE DONE ONLY AFTER INFO THINKING

STUD - ~~Evaluate Function~~

INFO

MEANING

EVAL. FUNCT. 1 \$

set problem, how might we acc. funct. to 1 \$?

instead of 8

\$2000 instead of 16,000

NO INFO SEARCHING, NO CREATIVE, NO JUDGING OF DETAILS

## III CREATIVE THINKING

ONLY ONE TYPE OF THINKING. -- CREATIVE  
JOIN KNOWL bits in diff combinations.

SOME HAVE KNOWL. Bits -- SOME CAN JOIN

NY EFFECTIVE IF HAVE BOTH

WHAT MIGHT I PUT ON TABLE?

(IF WEVE SEEN IT -- ITS MEMORY)

How might we get Funct FOR 1¢

"MAKE IT ON A NAIL MACHINE"

NO INFO - NO ANALYSIS - NO JUDGEMENT  
100% CREATIVE

## IV Judgement

Selecting an approach from Creativity  
list and minimizing its dis adv

NOT CROSSING OUT UN USABLE -- ALL ARE

UNUSABLE IN PRESENT FORM <sup>automobile</sup> disposal <sup>Diswasher</sup>

QUITE REALLY AN IDEA IS ~~WHAT~~ AS GOOD

AS OUR THINKING MAKES IT

Bus Bar system - "HANG IT WITH ROPE"

PRECISELY WHATS WRONG, HOW DO WE  
MINIMIZE WHATS WRONG

1 - "HANG IT WITH ROPE STORY"

2 - MAKE IT ON A NAIL MACHINE  
GOT FUNCTIONS FOR '8

# RECAP - MIND CONDITIONING

4

4 KINDS THINKING

INFO SEARCH

Analy - Estab. or set the problem

CREATIVE

JUDGEMENT

STEPS ARE VIA JOB PLAN

USE BUST COLLECTOR EXAMPLE IF HAVE TIME

CLOSE -

TEST PRECISION OF OWN THINKING

WHAT IS <sup>#</sup> VALUE

CLOCK

BY 10:00 TOMORROW WRITE

9 out of 10 of you will have used some  
of this -