

KURSUS PENGENALAN KEPADA PENGURUSAN NILAI (Awareness & Understanding Principle) 18 - 19 Ogos 2015, Tingkat 18, Menara PJD, KL



Jadual Kursus:

ATURCARA

KURSUS VALUE MANAGEMENT MODULE 1 SIRI 1/2015

Tarikh	Masa	Perkara	Penceramah	Fasilitator
18/08/2015 (Selasa)	8.00pg - 8.30pg	Pendaftaran Kursus		
	8.30pg - 9.00pg	Pre Course Assessment	Pn. Rohanis Abd. Ghani	
	9.00pg - 10.30pg	Introduction & Background of Value Management	Pn. Rohanis Abd. Ghani	
	10.30pg - 11.00pg	Minum Pagi		
	11.00pg - 1.00ptg	Value Management in Construction and Inplementation in Public Projects	Pn. Rohanis Abd. Ghani	
	1.00ptg - 2.30ptg	Makan Tengahari & Solat		
	2.30 ptg - 4.30 ptg	VM Body of Knowledge	Pn. Rohanis Abd. Ghani	
		- VM Opportunity Points		
19/08/2015 (Rabu)	8.00pg - 8.30pg	Pendaftaran Kursus		
	8.30pg -10.30pg	VM Body of Knowledge	Pn. Sh Muna Sy Murtadza	
		- VM Study Process - VM Worksyop Process		
	10.30pg - 11.00pg	Minum Pagi		
	11.00pg - 1.00pg	Value Management Methodology and Process (phases)		
		- Information Phase - Function Analysis Phase		
	1.00ptg - 2.30ptg	Makan Tengahari & Solat		
	2.00ptg - 4.00ptg	Value Management Process - con't	Pn. Sh Muna Sy Murtadza	
		- Creativity Phase		
		- Evaluation/Judgement Phase		
		- Development Phase		
		- Recommendation Phase		
	4.00ptg - 4.30 ptg	Post Course Assessment	Pn. Sh Muna Sy Murtadza	

: Cawangan Pengurusan Projek Kompleks, JKR

Our Vision

"To lead project management in Malaysia"

Our Initiatives

- 3PO (Portfolio, Program, Project)
- Project Management Toolkits
- Acquisition Categorisation (ACAT)
 Framework
- Project Health Check (PHC)
- Risk Management
- Strategi Perolehan Alternatif (SPAf)

- Gerbang Nilai (GN)
- Scheduling
- Project Management Competency
- Value Management
- Partnering
- VACCINE
- Enterprise Content Knowledge Management (ECKM)

























value management unit VM JKR

FUNGSI UTAMA:

- 1 Membangunkan sistem, proses, tools, techniques bagi pelaksanaan VE dalam projek kerajaan.
- Membangunkan kompetensi dalaman bagi VE di 2 JKR
- Melaksana Kajian VE (fasilitator) bagi program/projek Kerajaan (JKR dan Kementerian/Agensi lain)







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Lecture Objectives

History & Evolution of VM

The VALUE concept

The PRINCIPLES of Value Management



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Lecture Objectives

Attain BASIC knowledge on VM best practices.

Strengthen FUNDAMENTALS of VM practice.



What is

Value Management?

- A methodology
- A structured process
- Function orientated
- Involves Multidiscipline



Why do we need Value Management?

Because...
There are many ways to waste
TIME, MONEY, & EFFORT

Source: Abdulaziz S. Al-Yousefi (2008)



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The PRINCIPLES of Value Management



1940s (During WW II)

- Conceived by Lawrence D. Miles, purchasing engineer in GEC(General Electric Company), a major defense contractor in US.
- Running at maximum capacity, shortage of key raw materials
 & components.
- "if I cannot obtain the product I must obtain an alternative which perform the same function."
- From the observation he proposed a system called "Value Analysis"





1950s

- US Department of defense Bureau of Ships, the 1st US Government to implement VA.
- Name change to Value Engineering due to administration reason that engineer were considered the most appropriate personnel to undertake the task.
- Extensive development of VE through US Public Sector and emerged into service and projects.
- "Society of American Value Engineers" was incorporated in Washington, DC.



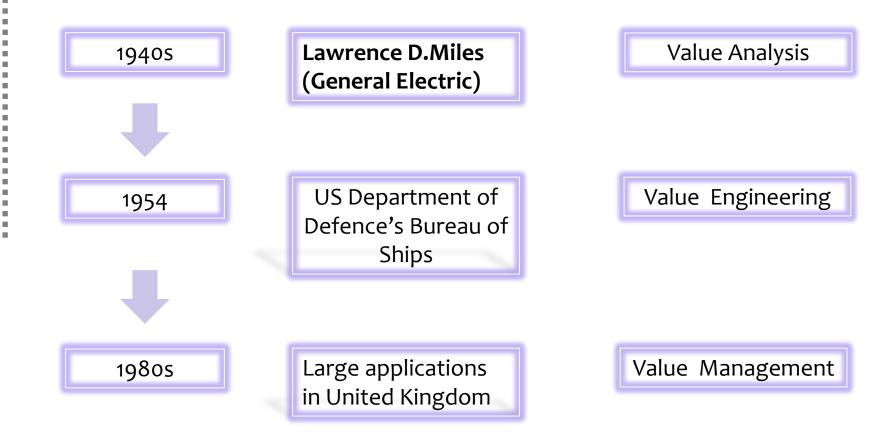
1960s

- Value Engineering (VE) began in UK manufacturing sector
- Established Value Engineering Association 1966
- Change name to Institute of Value Management
- and later expanded to Europe, Australia, New Zealand & Hong Kong

1980 - 90s

Value Management became popular and widely emerged into the Construction Industry







VM in Malaysia

1986

VM introduced to Universiti Teknologi Malaysia (UTM)



2000

Institute Value Management of Malaysia (IVMM) was registered and formalized with 20 founding members.



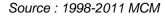
29th December 2009



2011

Circular on Value Management institutionalizing VM Application for Federal Government projects of RM50million and above had been issued by Economic Planning Unit, Prime Minister's Department.

Value Management Guideline







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Value Definition

Value is a measure expressed in currency, effort, exchange or on a comparative scale, which reflects the desire to obtain or retain an item or service:

- Use value (measures <u>function</u> of the item)
- Exchange value (amount an item may be sold)
- Esteem value (amount to pay for prestige)

Source: Kelly and Male (2003)





Cost and Worth

Cost is the price paid or to be paid (note: one man's price is another man's cost)

Worth is defined as the least cost to perform the required function

Source: Kelly and Male (2003)





Function

Function is a <u>characteristic activity</u> or <u>action</u> for which a thing is specifically fitted, used or for which something exists.

Source: Kelly and Male (1993)

Types of function:

BASIC FUNCTION:

The primary purpose or most important action performed by a product or service. The basic function must always exist, although methods or designs to achieve it may vary.

SECONDARY FUNCTION:

A function that <u>supports</u> the basic function and results from the specific design approach to achieve the basic function. As methods or design approaches to achieve the basic function are changed, secondary functions may also change.

Source: SAVE VM Standard

REQUIRED SECONDARY FUNCTION:

A function that must be achieved to meet codes, standards or mandatory other requirement.

Source: Dell 'isola





Example of Function



Basic Function

Gather Trainees



Secondary Function

Assure Privacy

Classroom

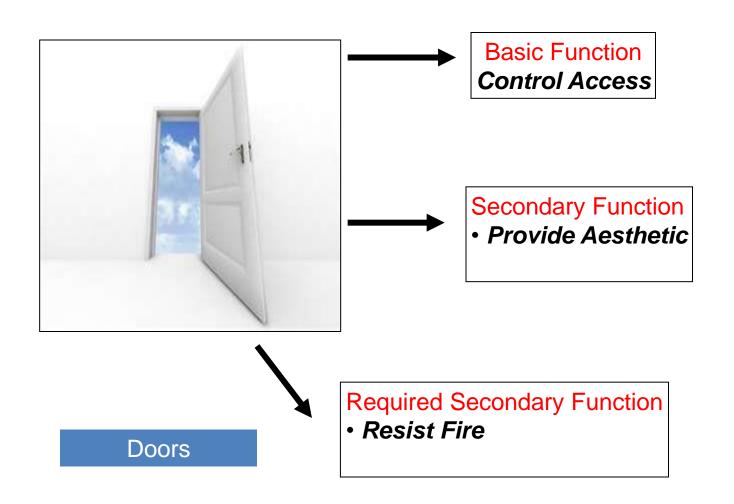


Required Secondary Function

Facilitate Training



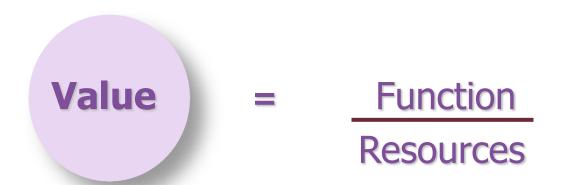
Example of Function





VM Value Concept (i)

SAVE International (USA):



Where;

Function = Customer's performance requirements;

Resources = Labour, cost, time etc

Or; as a fair return or equivalent in goods or services or money for something exchanged



VM Value Concept (ii)

BS EN 12973:2000 (UK/Europe):

What is necessary for a desired user

Value = Satisfaction of Needs

Use of Resources

Everything that is required to satisfy needs



VM Value Concept (iii)

by Dell 'Isola

Function

= The specific work that a design or item must perform

Quality

= The owner's or user's needs, desires and expectations

Cost

= The life cycle cost of the product or project





Value Enhancement

TECHNIQUES APPLIED TO IMPROVE VALUE

1. Cost Reduction Approach



Reducing cost but maintaining the function and quality

AREAS STUDIED

- shared facilities
- · centralised function
- Opt for cheaper solutions with same function and quality

VALUE IMPROVEMENT (OUTCOME)

- Optimized solution / design
- Elimination of redundancies
- Unnecessary cost avoidance
- Cost optimization

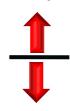
2. Function Increase Approach



Increasing either the function or quality or both but maintaining the cost

- Add or improve functionality
- Opt for better quality criteria or characteristic or technology, yet within cost
- Improved functionality
- Improved quality/ characteristic/ technology
- No cost implication

3. Compound Approach



Reducing the cost and at the same time increasing the function and quality

- Eliminate unnecessary function / facility
- Eliminate unnecessary quality criteria or technology
- Refine functional and/or quality at lower cost

- Unnecessary cost avoidance
- Improved functionality
- Improved quality / characteristic / technology
- Elimination of redundancies
- Cost Optimization

4. Expand Growth Approach



Increasing the cost but at the same time improving function and quality at a higher proportion

- Increase sustainable solutions in design
- Increase operations ability in design
- Increase maintenance sol\utions in design
- Improve constructability
- Opt for better technology

- Improved sustainability
- Improved operations / maintainability
- Improved constructability / technology
- Cost optimization

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VM Definitions (i)

L.D. Miles (1940s) used 'Value Analysis':

'is an organised approach to provide the necessary functions at the lowest cost';

and later definition;

'is an organised approach to the identification and elimination of unnecessary costs'

'....an <u>organised approach</u> to provide the necessary <u>functions</u> at the lowest cost without <u>affecting</u> the quality of the product.



VM Definitions .. unnecessary costs

Lack of measurement in value

Lack of information

Lack of time

New process or technology

"costs which do not meaningfully contribute to the function or purpose of the product or service"

Honest but wrong belief

Habits and attitudes

"wasteful practices in delivering a service or a failure to match the delivered service to customer needs"

Reluctance to seek advice

Unrealistic judgement

Human factor



VM Definitions (ii)

'VM is a proactive, creative way, problem-solving service, using structured systems and multi disciplinary team orientated approach to generate alternatives with the relationship of function with value'

Source: Kelly and Male (1993)



VM Definitions (iii)

'VM (Value Methodology) is a systematic process used by a multi disciplinary team to improve the value of a project through the analysis of functions'

Source: SAVE International (2007 edition)





VM Standards



USA

Value Standard & Body of Knowledge (SAVE International)

UK/Europe

British / European Standards BS EN 12973:2000

Australia/New Zealand

AS/NZ Standards
Value Management & TAM 2000 (NSW)





VM Terminologies

VALUE MANAGEMENT

Value Analysis
Value Assessment
Value Planning
Value Engineering
Value Review

VALUE METHODOLOGY





VM Study Vs VE Study



Why invest?

(Getting the right project)



Invest in the right technical solution

(Getting the project right)



VM Applicability

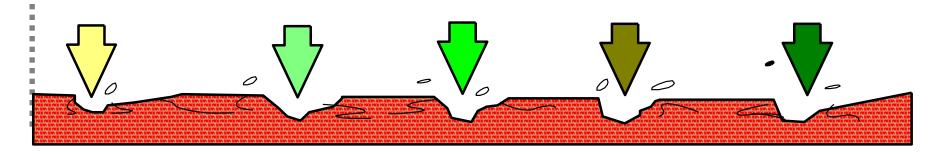
Can be applied during any stage of a project's development cycle

- Construction projects: Concept development, preliminary design, final design, procurement, and construction phases.
- Products, consumer, industrial, or defense:
- focus on the design or manufacturing process
- Business systems and processes: Business plans & Organizational
- Service organizations: Medical industry (Operating rooms, Emergency rooms and etc.); Legal system (police system)



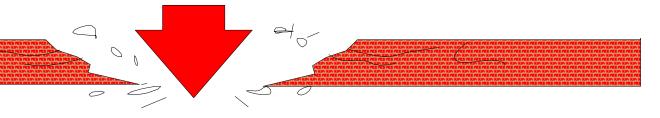
VM Team Approach

INDIVIDUAL EFFORTS



VM APPROACH

VM TEAM EFFORT



SOLUTION

Source: Abdulaziz S. Al-Yousefi (2008)

VM benefits

- Better investment decision
- Improved products or services
- Robust management style
- Vehicle for innovation & change
- Effective methods and tools
- Enhanced competitiveness
- Improved communication
- Positive human dynamics





Challenges in VM

- Misconceptions about VM
- Misconduct of VM practices
- Confusion in VM terminology and process
- Lack of commitment and support
- Negative attitudes and rejections
- Unreliable information and data been provided
- Time schedule & cost expenses for VM workshop
- No financial incentive for contractors (VECP)



Misconceptions about VM

Just another cost cutting tool

Eliminates unnecessary costwhilst retains or enhance quality or performance



Equals to "Design Reviews" or "Cost Planning" More systematic, disciplined and far reaching, function orientated, structured decision making tool, emphasizes on audits and a range of alternatives



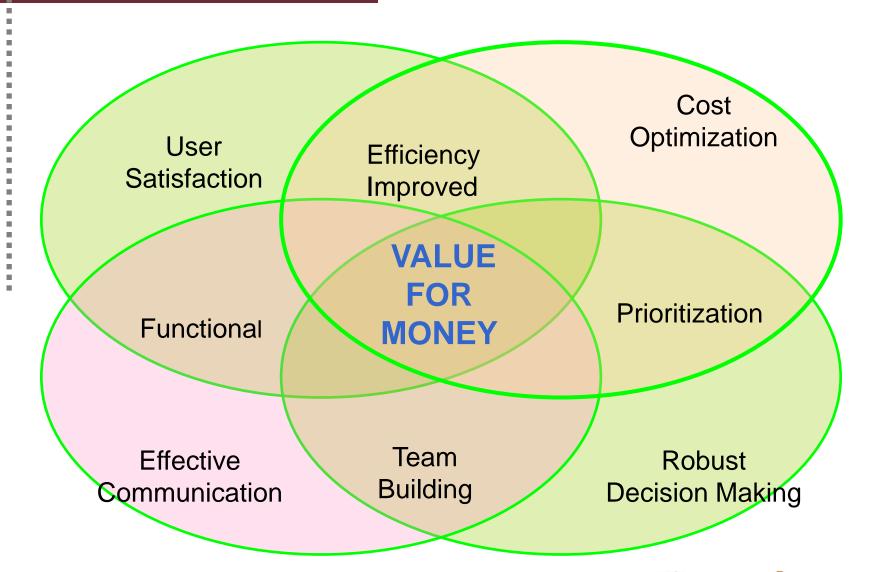
Additional "Road Block" & time consuming Set strategic interventions along the project life cycle to improve delivery efficiency and whole development time







Outcomes of VM





Value management key message











