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Value Engineering WSDOT

Embracing Creativity and Innovation



What are the Evaluation, Development and Presentation Phases?

According to SAVE International, the purpose of the last three phases:

EVALUATION PHASE – evaluate and select ideas that offer the greatest potential for value improvement while delivering project function(s).

DEVELOPMENT PHASE - develop selected ideas into alternatives (or proposals) with sufficient information to allow decision makers to determine if the alternative should be implemented.

PRESENTATION PHASE - develop presentation that documents and conveys the efficacy of the alternative(s) developed by the team and the associated value improvement opportunity.

The “phase” after the other phases are complete - **implementation**.

Once the VE team has presented their recommended ideas to management it is up to management, in collaboration with the project team to make a decision regarding which ideas they will adopt.

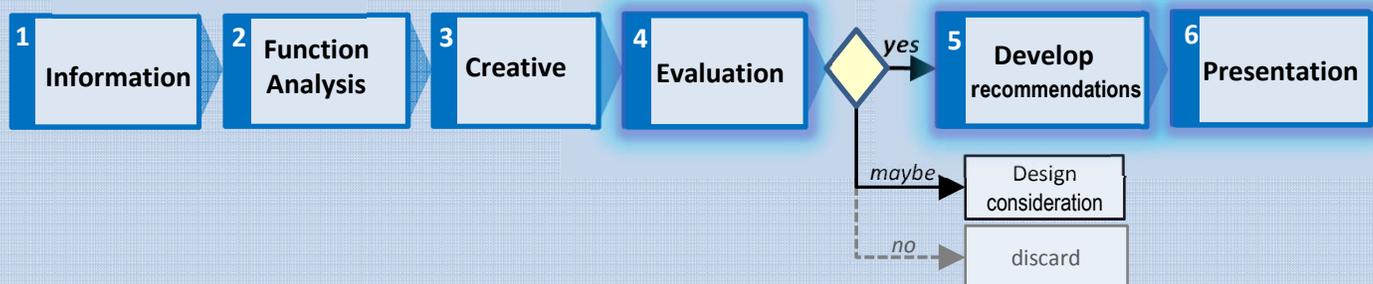
Evaluate, Develop, Present leads to implementation

- Evaluate ideas to “separate the wheat from the chaff”.
- Develop those ideas deemed to have the greatest potential.
- Present the recommended ideas to management.

Consistent with WSDOT’s embrace of practical design ideas for transportation demand management (TDM) and transportation systems management (TSM) should be explored.

Value Methodology

(6 phase VE job plan)



Evaluate, Develop, Present – terrific tips

- use performance attributes to determine potential.
- if an idea is fatally flawed to not waste time on it.
- develop ideas and provide estimates if possible.
- present ideas in a clear and concise fashion.

Ideas that are not discarded but that do not rise to the level of a recommendation can be considered by the design team in a more informal manner later on and simple be reported as “design considerations”.

Finish with gusto, follow through

Evaluation - the making of a judgment about the amount, number, or value of something; assessment.
synonyms: assessment, appraisal, rating, examination.

Develop - grow or cause to grow and become more mature, advanced, or detailed.
synonyms: expand, augment, broaden, perfect, evolve, form.

Presentation – a demonstration or display of an idea or product.

synonyms: demonstrate, display, exhibit, unveil.

Presentation - objective: present VE recommendations to management or decision-makers.

aim: provide actionable information in the form of ideas that enhance the value of the project.

content of presentation: describe project and the focus of the value engineering analysis

identify ve team members and ve analysis methodology

list the constraints, assumptions, and describe the performance attributes

describe each recommendation, answering these questions:

- what is the specific recommendation?
- why should it be implemented?
- when will the project benefit?
- who says so?
- is it difficult to implement?
- how much money or time will it save?



compare the original project, as described for the analysis, and the conclusions to be drawn if the recommendations are implemented; use the performance attributes and function analysis schedule an implementation meeting and remind the project manager to complete and sign the ve recommendation approval form

tips

use the experts from the ve team to present the ideas they are most knowledgeable about rehearse the presentation with the ve team prior to delivering to management get to the point! (brevity is the soul of wit *and* wisdom) if using visuals let them be few and very clear

		performance attributes							
		this reported performance attributes							
#	recommendation	approved? yes, no or yes with modification	safety	operations	environment	construction	right-of-way	ve team estimated cost avoided (or add)	pe team estimated potential cost avoided (or add)

Implementation – the process of putting a decision or plan into effect.

synonyms: accomplish, application, fulfillment, perform, realize, use.

The benefit of value engineering is not realized until recommendations are implemented.

The intent of the project manager to implement recommendations is affirmed in the completed and signed VE Recommendation Approval Form.