

VA TEAM ROLES & RESPONSIBILITIES

VA uses multi-disciplinary teams with a range of perspectives to achieve meaningful results. Team Leaders are Certified Value Specialists (CVSs) recognized at the National level. Team member selection is the most vital part of the VA process. It is crucial that suitable team members are identified to maximize the performance of the study. The Team can be comprised of Caltrans, Local Agency, and/or Private Consultants experts not affiliated with the project. The goal of the VA team is to generate and analyze design alternatives under the guidance of the Team Leader. The Team must commit to participate for the duration of the VA Study.

CALTRANS DISTRICT VA COORDINATOR'S RESPONSIBILITIES

The District VA Coordinator's (DVAC's) function is to assure proper application of VA policies and procedures. The DVAC may assist in the selection of team members in cooperation with the appropriate project managers, stakeholders, and functional managers.

CALTRANS HQ VA COORDINATOR'S RESPONSIBILITIES

HQ maintains a VA Program oversight staff whose main function is to support the DVAC's efforts and the VA needs of the Department. HQ is required to report to FHWA an annual assessment of the VA program.

Caltrans Value Analysis Team

Caltrans' teams of VA professionals are committed to promoting successful teams and are available to answer questions addressing your VA Study needs:

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<http://www.dot.ca.gov/hq/oppd/value/index.htm>



Value Analysis

A Quick Reference Guide for Local Partners



July 2016

WHAT IS VALUE ANALYSIS?

Value Analysis (aka Value Engineering) is a function-oriented, systematic team approach used to analyze and improve value in a project, product, or process. It is a powerful methodology for solving problems and reducing costs while improving performance and quality. “Value” can be summed up with the following equation:

$$\text{Value} = \frac{\text{Performance}}{\text{Cost} + \text{Delivery}}$$

BENEFITS OF VA

Value Analysis (VA) methodology has proven to be an extremely effective tool for project managers. It offers the following advantages:

- Convenes a panel of **experts** to advise on the following elements:
 - ❑ **Containing cost**
 - ❑ **Improving quality**
 - ❑ **Building consensus with our transportation partners**
 - ❑ **Solving difficult and complex transportation problems**
- Provides a documented, objective, multi-disciplinary solution to complex projects
- Involves stakeholders, PDT members and District management to ensure proper implementation of value

AGENCY REQUIREMENTS

The Implementing Agency of the Project is responsible for the VA study. The Project sponsors are responsible for funding project related activities including VA. All aspects of the study must comply with Chapter 19 of the Project Dev. Proc. Manual (PDPM).

As good stewards to the State Highway System and the Department’s oversight duties, Caltrans can take an active role as Team Members. The Project number will be charged for all staff time involvement.

Federal legislation requires a VA Study for:

- **Highway Construction Projects:** ALL federal aid projects on the NHS over \$50 million* in total cost (R/W, Construction, and Support) prior to construction.

- **Bridge Projects:** over \$40 million in total cost.

* Due to unforeseen circumstances, VA studies should be considered on projects priced over \$15 million

TYPICAL RESULTS

The Agency can obtain the best value by performing VA Studies in the early stages of project development. Historical data has proven that VA, when applied properly, can accomplish remarkable results. Caltrans benchmark performance goals are:

- Project Savings of 5%
- Return on Investment = 100:1
- Implementation Rate of 50%

TYPICAL VA STUDY

Typical studies involve a team of 7 – 10 multi-discipline Subject Matter Experts (SMEs) and one CVS team leader. The studies are typically six working days over a two or three week period of time. Including Pre and Post study meetings, each study should be resourced approximately 500 hours in the project work plan. Typical total cost of the Study is less than \$100,000.

VA STUDY STEPS

Pre-Study Preparation (8 hrs):

- Initiate Study
- Organize Study
- Form Team *
- Prepare Data

Study Workshop (40 hrs):

- Inform Team
- Analyze Functions
- Create Ideas
- Evaluate Ideas
- Develop Alternatives
- Critique Alternatives
- Present Alternatives
- Assess Alternatives
- Resolve Alternatives
- Present Alternatives

Post-Study Activities (8 hrs):

- Approving Alternatives *
- Implementing Alternatives *
- Publish Results
- Close out Study

* Critical VA stages