

INTRODUCTION TO FUNCTION ANALYSIS

VALUE LEADERSHIP



VALUE METRICS, LLC

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Function Analysis describes the process of defining, classifying and evaluating the functions of any project be it a process, product, facility or service. It provides a powerful means of clearly and simply understanding complex projects using language everyone can understand. It also provides a method for identifying areas within a project that can be targeted for value improvement

The primary course objective is to provide learners with an overview of the theory and practical application of Function Analysis, a body of knowledge that forms the basis for the broader discipline of Value Methodology. This course will appeal to both the novice as well as those experienced in the application of Function Analysis. Special emphasis is placed on helping learners become more proficient in the application of the Function Analysis System Technique, which is commonly referred to as FAST diagramming.

COURSE ACCREDITATION



This course is an 8-hour course that is provided alternatively in a traditional face-to-face format as well as in an innovative web-based e-learning environment. This course has been accredited by the Project Management Institute (PMI) and is worth 8 Professional Development Units (PDUs).



The contents of this course are in alignment with the traditional practice of Value Methodology as recognized by SAVE International. Students may also apply the 8 PDUs gained from this course toward either obtaining or renewing their Project Management Professional (PMP) or Certified Associate in Project Management (CAPM) certifications through the Project Management Institute.

COURSE OBJECTIVES

By providing learners with the means to practice and apply the techniques of Value Metrics within the context of a traditional Value Study. This course will make it possible to achieve a level of proficiency that should allow learners to apply the material in their respective disciplines. Demonstration of mastery of the material will occur in conjunction with training exercises under the tutelage of a Certified Value Specialist.

Upon the successful completion of the course, learners will be able to:

- Develop a basic understanding of the role of functions within the context of value improvement
- Accurately use the terminology of Function Analysis
- Demonstrate an understanding of the history and development of Function Analysis.
- Develop a thorough understanding of the following concepts and techniques:
 - Define functions using a two-word abridgment.
 - Identify functions using Random Function Determination.
 - Distinguish between Work (Use) and Sell (Aesthetic) Functions
 - Classify functions by category including Basic, Secondary, Higher-Order and Assumed Functions
 - Understand functional hierarchies through the Ladder of Abstraction.
 - Evaluate functions through the Numerical Evaluation method
 - Develop function-logic relationships through the application of FAST diagramming
 - Identify areas of opportunity within a project for value improvement by dimensioning FAST diagrams

INSTRUCTORS

ROBERT B. STEWART, CVS-LIFE, PMP

Rob Stewart is a Certified Value Specialist who has been practicing Value Methodology for over 15 years. During this time, he has lead over 150 value studies for clients in both the private and public sectors on a wide range of products, services and facilities from forklifts to multi-billion dollar transportation projects. He has taught courses in Value Methodology at Portland State University and the University of California, Berkeley. Mr. Stewart was responsible for developing *Value Metrics*, a value measurement system that compliments traditional Value Methodology. This system of techniques is now used by a number of public agencies as a means to evaluate the relationship of project cost and performance to value improvement. He has received several awards for his work on public infrastructure projects.