

# VMA試験の準備方法 | 100%合格率のVMA受験資格試験 | 便利なValue Methodology Associate日本語対策

**VALUE METHODOLOGY FUNDAMENTALS 1**

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**Value Methodology**

- 1.1 Explain the Value Methodology
  - A. Explain Value Analysis, Value Engineering or Value Management
  - B. Define the Value Methodology
  - C. Define Historical Milestones
  - D. Know How Value Analysis Methods Spread Globally and Evolved
  - E. Certification within SAVE International
  - F. Understand What Constitutes a Value Study
- 1.2 Explain the Concept of Value
  - A. Define Value as a Basic Concept (Functions Divided By Resources)
  - B. Who Determines Value
  - C. Types of Value
  - D. Define the Value Index (Function Cost Divided By Function Worth)
  - E. Establish, Understand Sources, and Determine Worth
  - F. Possible Reasons for Poor Value
- 1.3 Explain the Code of Conduct
  - A. Explain the SAVE International Standards of Conduct

**Transform Information**

- 2.1 Express Information
  - A. Define Key Data Required (Cost, Process, Risk)
  - B. Collect Relevant Data
  - C. Identify Potential Value Improvement Opportunities Based on Available Information
- 2.2 Apply Value Modeling in a Value Study
  - A. Transform Data (Pareto Diagram, etc.)
  - B. Organize/Diagram Key Resources (Space, Time, Energy, Labor or Staffing, Cost, Materials, etc.)

**Function Analysis**

- 3.1 Explain Function Analysis
  - A. Define Function Analysis
  - B. Explain Purpose of Using Function Analysis
- 3.2 Differentiate Functions
  - A. Define What is a Function
  - B. Contrast Activities From Functions
  - C. Classify Functions

**Cost Analysis**

- 5.3 Organize Functions
  - A. Explain What Is a Random List of Functions
  - B. Construct a Random Function Identification Worksheet
  - C. Explain What Is a Fast Diagram
- 5.2 Compute Financial Assessment
  - A. Know the Common Terms in the Use of a Financial Analysis (Net Present Value, Present Worth, ROI, Simple Payback)
- 5.3 Apply Life Cycle Costing
  - A. Know the Common Terms on Life Cycle Costing
  - C. Interpret the Time Value of Money

**Workshop Stage (Six-Phase VM Job Plan)**

- 5.1 Manage the Six Phases of the VM Job Plan
  - A. Express the Purpose and Procedures of Each Phase of the VM Job Plan
  - B. Express How Each Phase Builds on Its Previous Phase
- 5.2 Complete Information Phase
  - A. Express Different Information Gathering Techniques
- 5.3 Complete Function Analysis Phase
  - A. Express Different Function Analysis Techniques
- 5.4 Complete Creative Phase
  - A. Express Different Creative Techniques
- 5.5 Complete Evaluation Phase
  - A. Express Different Evaluation Techniques
- 5.6 Complete Development Phase
  - A. Express Different Development Techniques
  - B. Develop Recommendations
  - C. Identify Key Features to Sell Value Opportunities
  - D. Suggest Path Forward for Implementation
- 5.7 Complete Presentation Phase
  - A. Illustrate Key Value Recommendations
  - B. Organize Information for Effective Delivery
  - C. Leverage Visual Aids and Technologies to Deliver a Presentation
  - D. Anticipate and Respond to Questions
  - E. Express Key Features to Sell Value Opportunities
  - G. Illustrate Path Forward for Implementations

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>> VMA受験資格 <<

VMA日本語対策 & VMA教育資料

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## SAVE International Value Methodology Associate 認定 VMA 試験問題 (Q36-Q41):

### 質問 #36

Which phase enables the VM team to select viable ideas?

- A. Development
- B. Function Analysis
- C. Evaluation
- D. Presentation

正解: C

#### 解説:

The Value Methodology (VM) Job Plan, as outlined in the VMF 1 course and SAVE International's Value Methodology Standard, consists of six phases, one of which is the Evaluation Phase, where the VM team selects viable ideas. In the Evaluation Phase, the team assesses ideas generated during the Creative Phase to determine their feasibility, cost impact, and alignment with project goals. According to the VMF 1 Core Competency #3 (Value Methodology Job Plan), the Evaluation Phase involves "evaluating the ideas for their potential to improve value, using criteria such as cost savings, performance, quality, and feasibility, to select the most viable alternatives for further development." Tools like weighted evaluation matrices may be used to rank ideas systematically.

\* Option A (Function Analysis) is incorrect because this phase focuses on identifying and analyzing functions, not selecting ideas.

\* Option B (Presentation) is incorrect because this phase involves communicating recommendations to stakeholders, after ideas have already been selected and developed.

\* Option C (Evaluation) is correct, as it is the phase where the VM team filters and selects viable ideas based on defined criteria.

\* Option D (Development) is incorrect because this phase involves refining selected ideas into actionable proposals, which happens after the Evaluation Phase.

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SAVE International, "Value Methodology Standard and Body of Knowledge," available at <https://www.value-eng.org>, detailing the Evaluation Phase in the VM Job Plan.

SAVE International, "Value Methodology Associate (VMA) Certification," <https://www.value-eng.org/page/VMA>, referencing VMF 1 Core Competency #3 (Value Methodology Job Plan).

### 質問 #37

A Random Function Identification table contains:

- A. Components, resources, and criteria
- B. Inputs, objectives, and sequence
- C. Elements, functions, and classifications
- D. Costs, time, and risks

正解: C

#### 解説:

Random Function Identification is a technique used in Value Methodology's Function Analysis phase to identify and organize functions before creating a Function Analysis System Technique (FAST) diagram, as taught in the VMF 1 course (Core Competency #2). According to SAVE International's Value Methodology Standard, Random Function Identification involves "listing all functions of a system or project in a table, typically including the elements (components or parts), their associated functions (in verb-noun format), and their classifications (e.g., basic, secondary, higher-order)." This table helps the VM team systematically identify and categorize functions during the early stages of analysis, ensuring all functions are captured before structuring them in a FAST diagram.

\* Option A (Inputs, objectives, and sequence) is incorrect because inputs and objectives are part of the Information Phase, and sequence is addressed in FAST diagramming, not in the Random Function Identification table.

\* Option B (Costs, time, and risks) is incorrect because these are related to cost analysis or implementation planning, not function

identification.

\* Option C (Elements, functions, and classifications) is correct, as it aligns with the purpose of the Random Function Identification table in VM.

\* Option D (Components, resources, and criteria) is incorrect because resources and criteria are not part of function identification; criteria are used in the Evaluation Phase.

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SAVE International, VMF 1 Core Competency #2 (Function Analysis), which includes Random Function Identification as a precursor to FAST diagramming.

SAVE International, "Value Methodology Standard," section on Function Analysis, describing the Random Function Identification table as listing elements, functions, and classifications.

### 質問 #38

An effective Information Phase kickoff meeting:

- A. Indicates the VM solutions desired by decision makers.
- B. Describes how functions have normally been accomplished.
- **C. Outlines goals for the study subject and VM study objectives.**
- D. Discusses the challenges of the proposed VM study approach.

正解: **C**

解説:

The Information Phase is the first phase of the Value Methodology (VM) Job Plan, where the team gathers and understands data about the study subject, as taught in the VMF 1 course (Core Competency #3: Value Methodology Job Plan). According to SAVE International's Value Methodology Standard, "an effective Information Phase kickoff meeting sets the stage for the VM study by outlining the goals for the study subject and the VM study objectives, ensuring alignment among team members and stakeholders." This involves clarifying the purpose of the study, the project's goals (e.g., reduce costs, improve performance), and the specific objectives of the VM study (e.g., achieve 20% cost savings while maintaining function). This aligns with the primary objective of the Information Phase-to understand the subject-and ensures the team starts with a clear direction.

\* Option A (Discusses the challenges of the proposed VM study approach) is incorrect because, while challenges may be acknowledged, the primary focus of the kickoff is to set goals and objectives, not discuss challenges.

\* Option B (Outlines goals for the study subject and VM study objectives) is correct, as it matches the purpose of an effective Information Phase kickoff meeting.

\* Option C (Indicates the VM solutions desired by decision makers) is incorrect because solutions are developed later (e.g., in the Creativity and Development Phases), not during the Information Phase kickoff.

\* Option D (Describes how functions have normally been accomplished) is incorrect because this level of functional detail is addressed in the Function Analysis Phase, not the Information Phase kickoff.

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SAVE International, "Value Methodology Standard and Body of Knowledge," available at <https://www.value- eng.org>, detailing the role of the Information Phase kickoff in setting goals and objectives.

SAVE International, VMF 1 Core Competency #3 (Value Methodology Job Plan), emphasizing the importance of outlining goals during the Information Phase (consistent with Question 39).

### 質問 #39

In which phase does one work to obtain a thorough understanding of the subject of the VM study?

- A. Presentation Phase
- **B. Information Phase**
- C. Creativity Phase
- D. Evaluation Phase

正解: **B**

解説:

The Value Methodology (VM) Job Plan, as outlined in the VMF 1 course and SAVE International's Value Methodology Standard, consists of six phases, starting with the Information Phase. According to VMF 1 Core Competency #3 (Value Methodology Job Plan), the Information Phase is where the VM team works to

"obtain a thorough understanding of the subject of the study by gathering and analyzing data on project scope, costs, constraints, objectives, and stakeholder needs." This phase involves collecting all relevant information-such as drawings, specifications, cost data,

and performance requirements-to establish a baseline for the study, ensuring the team fully understands the project before proceeding to function analysis.

\* Option A (Information Phase) is correct, as it is explicitly defined as the phase for gaining a thorough understanding of the VM study's subject.

\* Option B (Creativity Phase) is incorrect because this phase focuses on generating ideas, not gathering information.

\* Option C (Evaluation Phase) is incorrect because this phase involves assessing ideas, which occurs after the subject is already understood.

\* Option D (Presentation Phase) is incorrect because this phase involves communicating recommendations, not studying the subject.

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SAVE International, "Value Methodology Standard and Body of Knowledge," available at <https://www.value- eng.org>, detailing the Information Phase in the VM Job Plan.

SAVE International, VMF 1 Core Competency #3 (Value Methodology Job Plan), emphasizing the role of the Information Phase in understanding the study subject.

#### 質問 # 40

Which function is located to the left of the left vertical line in a FAST diagram?

- A. Higher Order Function
- B. Lower Order Function
- C. Basic Function
- D. Secondary Function

正解: A

解説:

The Function Analysis System Technique (FAST) diagram is a key tool in Value Methodology's Function Analysis phase, as taught in the VMF 1 course (Core Competency #2). FAST diagrams map the relationships between functions, with the horizontal axis showing the "how-why" logic (critical path) and vertical lines called scope lines defining the study's boundaries. According to SAVE International's Value Methodology Standard, "the left vertical line in a FAST diagram is a scope line, and the function immediately to its right is typically the higher-order function, which represents the overarching goal or need for the system." The function to the left of the left scope line is outside the study's scope and often represents an even broader objective or external assumption that drives the higher-order function. However, in standard FAST diagramming, the higher-order function is the closest function to the left scope line within the scope, and functions to the left of the scope line (e.g., P in the diagram from Question 30) are external.

In the context of the VMA exam and VMF 1, the question likely tests the understanding of the higher-order function's position relative to the scope line. As established in Question 18, Function E (just inside the left scope line B) is the higher-order function. Functions to the left of the left scope line (e.g., P) are typically external assumptions or broader objectives, but the options provided (A, B, C, D) refer to standard function classifications within the FAST framework. The higher-order function (C) is the most relevant choice, as it is the function closest to the left scope line within the study's scope, and the question may be interpreted as asking for the function type associated with that position.

\* Option A (Basic Function) is incorrect because the basic function is typically more central on the critical path, not at the far left.

\* Option B (Secondary Function) is incorrect because secondary functions are vertical (supporting the critical path), not on the main path near the left scope line.

\* Option C (Higher Order Function) is correct, as the higher-order function is located just to the right of the left scope line (e.g., Function E), and the question may be interpreted in this context based on standard FAST conventions.

\* Option D (Lower Order Function) is incorrect because lower-order functions are to the right of the basic function, representing more specific outcomes, not near the left scope line.

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SAVE International, VMF 1 Core Competency #2 (Function Analysis), defining the position of the higher- order function in FAST diagrams.

SAVE International, "Value Methodology Standard," section on Function Analysis, describing FAST diagramming conventions, including the role of scope lines and higher-order functions.

#### 質問 # 41

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