Publication date : 03/19/2024

# Course : Information Systems Value Analysis

***Seminar - 3d - 21h00 - Ref. AVA***
***Price : 2990 CHF E.T.***

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Value is the ratio between a system's ability to satisfy real user needs and its cost. Value analysis is used to optimize this ratio in the upstream phases of projects, and in the development of project portfolios. This seminar will show you how to implement a consensual design approach between project owners, project managers and users, with a view to optimizing the value of Information Systems. It presents in detail the methodological tools of this approach, its profitability and its limits.

## Teaching objectives

**At the end of the training, the participant will be able to:**

- Understand the specifics of an IS value analysis approach
- Identify French and European standards
- Master the main methodological tools
- Discover the main concepts of functional requirements analysis
- Implement an analysis approach to optimize IS value

## Intended audience

This seminar is aimed at all those involved in information systems design: CIOs, project directors and managers, project owners, prime contractors and users.

## Prerequisites

No special knowledge required.

## Course schedule

**PARTICIPANTS**

This seminar is aimed at all those involved in information systems design: CIOs, project directors and managers, project owners, prime contractors and users.

**PREREQUISITES**

No special knowledge required.

**TRAINER QUALIFICATIONS**

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

**ASSESSMENT TERMS**

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

## 1 The specifics of the "Value Analysis" approach

- Definitions: value, functional analysis, value analysis, value-based management.
- French and European standards.
- Specific features of the approach: design in a multi-disciplinary, facilitated group.
- Cost-conscious design and dissociation by services rendered.
- The full cost of IT systems.
- The full cost of information systems.
- The structure of the value analysis process.

## 2 Basic concepts of functional requirements analysis

- Analyze the causes of discrepancies between users' needs and their actual requirements.
- Functional analysis concepts and vocabulary.
- Service functions, their nature, their levels. Constraints.
- Rules for expressing service functions.

## 3 The service function tree

- The service function tree, an analysis grid in terms of a tree structure of services rendered.
- The key element in the entire design process.
- Function tree construction rules.
- Tree-building tools: environmental diagram, interactors matrix.
- Function analysis by element, intuitive search, function validation.

## 4 Expected performance of service functions

- Criteria for assessing job performance, with their levels and associated flexibility.
- Negotiating performance expectations.
- Tools to help assess expected performance.
- The recurring costs of the existing system, the stakes that can really be mobilized.
- Hierarchy of service functions.
- Acceptable levels of recurring costs and investments by service function.

## 5 The search for conceptual solutions

- Conceptual solutions, upstream from techniques.
- The principle of structuring systems by performance and the associated tools.
- Group creativity methods.
- The search for conceptual solutions by service function.
- Combining ideas.

### TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.

• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.

• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

### 6 Measuring the value of systems

- Instantaneous measurement of a system's value.
- Instantaneous measurement of the increase in value delivered by a project or set of projects.
- Relationship between service functions and solutions.
- Level of satisfaction of performance expectations by service function.
- Investment and recurring earnings by service function.
- Correlations with the relative importance of each service function.
- Evolution of value over time: evolution of overall satisfaction, expected performance and ROI.
- The use of value measurement tools as arguments and decision aids.

### 7 The process of conducting a project value analysis

- Steps in the project value analysis process.
- The tools used and the distribution of roles at each stage.
- Deliverables.
- Application of the method to software package choices and technical overhauls.

### 8 Conducting a master plan value analysis

- Analysis of the causes of discrepancies between the priorities assigned to projects and their actual priorities.
- The project portfolio selection and planning process.

### 9 Implementing the approach

- Rules for setting up workgroups and selecting participants.
- Techniques for facilitating value analysis groups.
- Complementarity with IT project management methods.
- The impact of the approach on project costs and timescales.
- The costs, time and profitability of the process itself.
- The use of the approach's tools in a project manager's personal working method.
- Conditions for success.

**Case study**

The approach and main methodological tools will be illustrated by real-life case studies.

## Dates and locations

**REMOTE CLASS**

2026 : 31 Mar., 23 June, 6 Oct., 1 Dec.