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Consulting & Engineering

Training and Consultancy Services Catalogue

2025

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Training Programs

Consultancy Services

Semiha YAŞAR
Sempro Founder

As your reliable business partner, we reflect our excitement for your company to achieve process excellence in all of our training and consultancy services, and support your enterprise transformation to gain competitive advantage.

CM2 Trainings

CM2-01	Foundation of Operational Excellence
CM2-02	Requirements and the CM2 Baseline
CM2-03	Fundamentals of Change Management
CM2-04	The CM2 Change Process
CM2-05	The Complexities of Lifecycle Sustainment
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CM2-09	Application Workshops for Achieving Operational Excellence
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CM2-01
Foundation of Operational Excellence

- 2 DAYS -

Defining, structuring, linking, and assigning responsibility for requirements and business processes enables individuals to perform tasks effectively and efficiently, helping the organization achieve its business objectives. If sufficient importance is not placed on defining requirements and processes -or if they are misdefined- the organization will face the cost of intervention resources. These costs include additional time, money, and other losses spent to recover quality and meet schedule targets.

Quality and schedule problems unnecessarily consume an organization's daily energy, making corrective action a standard way of working. In order to break this cycle, it is necessary to recognize the gap between current practices and best practices, and to accept that a cultural change is needed to close this gap.

This course introduces an effective methodology for documenting, approving, releasing, and managing changes to requirements. Change management and process improvement practices are addressed with the goal of reducing the need for intervention resources and ensuring that requirements are clear, concise, and valid.

Participants who successfully pass the exam at the end of the course will receive a certificate approved by IpX (Institute for Process Excellence).

Course Outline

- Business Management
- Hierarchical Structure of the Digital Thread
- Scope of Corrective Actions
- Fundamentals of the CM2 Model
- Untangling the Chaos of the Organization
- Product Development Aligned with Global Standards
- Managing Requirements
- Managing Requirements as Datasets
- The Change Process and Key Decision Points
- Elements of the CM2 Change Process
- Failures Due to Siloed Change Management vs. Successful CM2 Applications
- Optimizing Configuration Management in Enterprise
- Roadmap for Implementing CM2

CM2-02
Requirements and The CM2 Baseline

- 2 DAYS -

The ineffective management of the Digital Thread across the enterprise leads to corrective actions throughout the product lifecycle — including software, hardware, systems, facilities, and infrastructure.

Managing both product and enterprise requirements forms the foundation of the Digital Thread. The processes that define the Digital Thread for a product or service include the concept, development, production, operation, maintenance, and decommissioning phases. Configuration Management is the backbone of both product and enterprise requirements that serve as the foundation of the Digital Thread.

This course outlines the methods required to establish the Enterprise Digital Thread and explains how to develop, structure, manage, and drive enterprise-wide improvement through the CM2 model. It also addresses the definition, structuring, and ownership of product, solution, and business requirements — key elements of effective requirements management.

Participants who successfully complete the final exam will receive a certificate approved by IpX (Institute for Process Excellence).

Course Outline

- Best Practices for Naming, Numbering, and Attribute Usage
- Effective Techniques for Managing Requirements
- Enhancing the Effectiveness of the Development Process
- Application Requirements and Dynamic Linkages
- Design Basis Requirements and Dynamic Linkages
- Creation of Functional Work Packages and Schedules
- Increasing Reuse and Interchangeability
- Managing Detailed Planning and Detailed Design
- Managing Product Configuration Options and Variants
- Project Planning Using Functional Work Packages
- Perspectives and Definitions of Quality
- Creating Positive Impact on Financial Outcomes
- True North Enterprise Calibration Model (IpX Patented Framework)
- Business Standards and Procedures

CM2-03
Fundamentals of Change Management

- 2 DAYS -

Change management is the ability to understand the impact of changes at the enterprise level and throughout the product or service lifecycle. The objective of change management is to enable a cultural transformation that ensures the change process is understood and applied correctly—ultimately resulting in the consistent use of clear, concise, and valid requirements.

It is critical for organizations to define a fast and efficient change process for their products and systems. Change processes that are designed without proper consideration of the required foundational elements are often reworked or entirely redesigned. Continuous improvement efforts should also support the creation and maintenance of the digital twin of a product, service, or organizational unit. In doing so, issues such as the re-identification of items and poor visibility into change impacts can be minimized.

This course defines the elements required to implement a closed-loop change process and outlines the essential building blocks that must exist outside of it. The concept of Enterprise Configuration Management is dependent on these foundational elements. The course also introduces a decision tree to determine whether an item should be re-identified, enabling full visibility of the digital twin.

Participants who successfully complete the final exam will receive a certificate approved by IpX (Institute for Process Excellence).

Course Outline

- Enterprise Transformation
- The CM2 Business Model for Organizational Success
- Communication and Decision-Making in the Context of Change
- Rules for Part Number Changes and Re-identification
- Digital Objects for Managing and Authorizing Workflows
- Investigation and Change Requests
- Change Notices, Impact Matrices, and Change Records
- Standard Digital Objects for Procurement, Production, and Modification
- Traceability of Changes at the End-Item Level
- Post-Production Traceability and Product Modifications
- Implementation Points, Release Dates, and Effectivity Dates
- Proper and Improper Use of Change Implementation Points

CM2-04
The CM2 Change Process

- 2 DAYS -

In order to establish an accurate Digital Thread and execute a successful change management process within an organization, the process must be entrusted to qualified professionals with clearly defined roles and responsibilities.

This course emphasizes the importance of Enterprise Configuration Management and defines the roles, responsibilities, and workflows of those managing change throughout the product/service lifecycle. The goal is to ensure that the Digital Thread remains intact and the Digital Twin stays accurate from concept through disposal.

In addition, the course demonstrates the impact and efficiency of both the CM2 Closed-Loop and Fast-Track Change Processes, in alignment with the foundational elements and principles presented in CM2-01 through CM2-03.

When the methodology defined in this course is applied, the change management process is no longer viewed as a "necessary evil" but rather as a true competitive advantage.

Participants who successfully complete the final exam will receive a certificate approved by IpX (Institute for Process Excellence).

Course Outline

- CM2 Change Leader (CL)
- Enterprise Change Assessment (ECA) and Change Ownership
- Change Review Board (CRB) and Business Decisions
- CM2 Change Implementation Leader (CIL)
- Change Implementation Board (CIB)
- Supply Chain Impact and Management
- CM2 Audit and Release Analyst (ARA)
- Managing Changes to Changes
- Managing Change Notice Revision Levels and Sequence of Implementation
- Managing the Status of Active Change Implementation
- Capacity Planning and Prioritization Control
- Principles for Improving the Change Process
- Organization and Management of Data
- Configuration Management Process Self-Assessment for Enterprises

CM2-05
The Complexities of Lifecycle Sustainment

- 2 DAYS -

The ability to accurately establish and maintain the Digital Thread and Digital Twin throughout the lifecycle of a product or service is only possible through the successful implementation of an Enterprise Configuration Management process. Proper requirements management throughout the lifecycle reduces the costs associated with corrective actions, warranty claims, and recalls.

In addition to the workflows and roles introduced in CM2-01 through CM2-04, this course focuses on managing the Digital Thread during the operational and maintenance phases. It also addresses the traceability of the Digital Twin and the execution of change management during those phases.

Participants will learn how to identify the variations and challenges that can emerge at each stage of the lifecycle and how to manage the Digital Thread within the organization's critical operational areas.

Participants who successfully complete the final exam will receive a certificate approved by IpX (Institute for Process Excellence).

Course Outline

- Lifecycle Control and Datasets
- Integrated Logistics Support (ILS)
- Product Substitutions, Issues, and Resolutions
- Supply Chain Management for ILS
- The Complexity of Logistics Management
- Product Marking and Labeling Methods
- Approved ILS Asset Configurations
- ILS Updates and Modifications
- Refurbishment and Certification
- Proposed Changes and Lifecycle Cost Impact
- Planning for Change Implementation
- Change Planning for ILS
- Improvement of the Change Process
- Executing Changes for ILS
- Reconfiguring Existing Facility Design
- Disposal and Environmental Management

CM2-06

Enterprise CM2 Implementation

- 2 DAYS -

Improvement projects targeting enterprise systems such as PDM, PLM, and ERP, as well as corporate processes, do not always progress successfully. Even when the project scope and objectives are clearly defined, reaching the desired outcomes can still be a challenge.

The primary issue is not repeatedly dealing with the same types of errors or problems. The core problem lies in the inability to manage and implement changes effectively.

This course explains how to improve core business processes and software tools while transitioning to Enterprise Configuration Management. It provides the foundations for successfully implementing defined improvement opportunities and includes a step-by-step simulation of the execution process.

In addition, participants will learn how to prepare a successful transformation plan based on the strengths and weaknesses of current practices. The course outlines how to manage this plan, how to reach intended outcomes, and how to manage changes effectively using the CM2 methodology and digital transformation principles.

Participants who successfully pass the final exam will receive the CM2-C (CM2 Comprehensive) certificate, accredited by IpX (Institute for Process Excellence).

Course Outline

- Conducting a Successful Improvement Project
- Selecting the Project Team and Defining Objectives
- Assessing Current Practices
- Developing the Transition Plan
- Simulating the Transition Plan
- Enabling Processes in Software Tools
- Defining Organizational Changes
- Application and Performance Metrics

CM2-07
Optimization of The Core Business Processes

- 2 DAYS -

The number of organizations that have achieved integrated process excellence is smaller than it should be. This is because most organizations continue to use configuration management (CM) in a limited role, only applying it to design information. Those organizations process a high volume of deviations and waivers; use redlines and assume firefighting is normal business practice.

In order to achieve Integrated Process Excellence an organization must break the many paradigms generally associated with configuration management's limited role. The phased transition from that limited approach to CM2 is a major culture change that must be carefully planned and managed.

The foundation of that new culture is the ability to change faster and document better. The application of that ability is extended beyond design information to include all requirements for the enterprise, and the enterprise deliverables throughout all of the lifecycle phases. Keeping all of those requirements clear, concise, and valid at all times is the goal...a very achievable goal.

This course introduces a 2-phase approach to be used for creating the foundation to enhance the efficiency of each core business process. It will identify the key elements that must be in place reaffirm that the proper approach is to define the process first, then select the enabling tool.

Participants who successfully complete the exam at the end of the course will receive a certificate approved by IpX (Institute for Process Excellence).

Course Outline

- Facilities Management
- Asset Management
- Safety, Security, and Environmental Management
- Program Management
- Research & Development
- Marketing, Sales, and Contract Management
- Supply Chain Management
- Order Fulfillment and Production
- Integrated Logistics Support
- Human Resources and Training
- Finance and Accounting
- Process Oversight and Internal Audit
- Blockchain – Data Security and Sharing

CM2-08
Sustainable Organizational Transformation

- 2 DAYS -

CM2 Courses 01 through 07 cover the 19 core business processes defined within the CM2 Model. To achieve operational excellence and succeed at a world-class level, organizations must undergo a structured transformation.

For a sustainable transformation, organizations must move beyond current practices and define their future state of operation.

This course provides participants with a CM2-based approach to driving enterprise transformation by focusing on four key domains: Program Management, Cybersecurity, Requirements Development, and Supply Chain Management. The course explains how to build the necessary skills and processes in each of these areas to support long-term success.

Participants who successfully complete the exam at the end of the course will receive a certificate approved by IpX (Institute for Process Excellence).

Course Outline

- Program Management
- Elements of Program Management
- Building Stakeholder Collaboration
- Program Risks and Mitigation Strategies
- Estimating and Managing Program Costs
- Cybersecurity Management
- Managing Cybersecurity Requirements
- Types of Security and Privacy Controls and Their Relationships
- Ensuring Accuracy and Integrity in the Enterprise Baseline
- Information Access, Controls, Awareness, and Training
- Requirements Definition
- Importance of Enterprise Requirements
- Top-Down Requirements Decomposition
- Linking and Allocating Requirement
- Consequences of Poor Requirements Management
- Supply Chain Management
- Importance of Supplier Selection
- Managing Supplier Requirement
- Improving Supplier Performance

CM2-09

Application Workshops for Achieving Operational Excellence

- 3 DAYS -

This course is designed for individuals and teams aiming to implement the CM2 methodology, focusing on building a business plan and enabling organizational culture change.

During the course, participants engage in role-based simulations to experience the end-to-end process and understand how to apply the CM2 methodology in practice.

As senior leadership, they review the enterprise baseline and define its structure, content, and rules for naming and numbering.

As business process owners, they create enterprise operating standards and procedures, and define the linkage between process, standard, and procedure within the enterprise baseline.

As cross-functional team members, they develop a product by establishing its design basis, product hierarchy, and product baseline.

As members of the Change Review Board (CRB), they implement changes to the enterprise and product baselines.

Participants who successfully complete the exam at the end of the course will receive the CM2-P (CM2 Professional) certificate approved by IpX (Institute for Process Excellence).

Course Outline

- Building Process Development Competencies
- CM2 Business Process Baseline: Lessons Learned
- Product Development Team and Process
- Product Baselines: Lessons Learned
- Configuration Management Workflows
- Workflow Management: Lessons Learned

CM2-10
Awareness and
Overview for Leadership

- 3 HOURS -

For executives, maintaining visibility into requirements, changes, and configurations throughout the product lifecycle is of critical importance. Failure to effectively manage data in these areas can result in costly corrective actions, reduced traceability of fielded configurations, and expensive product recalls.

This course provides executives with an overview of how the CM2 model supports enterprise success. It addresses enterprise management, untangling organizational complexity, the role of the Digital Twin and Digital Thread, managing requirements as datasets, the closed-loop change process, and the effective use of software tools necessary to manage the product lifecycle.

Course Outline

- Managing the Enterprise
- Hierarchical Structure of the Digital Thread
- Framework of the Enterprise
- Managing Requirements as Datasets
- Untangling Organizational Complexity
- Digital Twin and Digital Thread
- Developing World-Class Products
- Elements of the CM2 Change Process
- Effective Use of Software Tools
- Decision-Making in Change Management
- Points of Implementation, Release, and Effective Dates

CM2-15
Operational Excellence Bootcamp

- 2 DAYS -

For executives, maintaining visibility into requirements, changes, and configurations throughout the product lifecycle is critically important. Inability to effectively manage data in these areas can result in costly corrective actions, reduced traceability of fielded configurations, and expensive recalls.

This bootcamp focuses on achieving enterprise success through the CM2 model by addressing key topics such as enterprise management, untangling organizational complexity, the Digital Twin and Digital Thread, managing requirements as datasets, the change process, and the effective use of software tools that support the product lifecycle.

Participants who successfully complete the bootcamp will receive a certificate approved by IpX (Institute for Process Excellence).

Course Outline

- Managing the Enterprise
- The Need for Change in Enterprise Transformation
- Workshop 1: Self-Assessment
- The Magnitude of Corrective Action
- Untangling Organizational Complexity
- Hierarchical Structure of the Digital Thread
- Managing Enterprise Baselines
- Managing Requirements as Datasets
- Workshop 2: Comparative Analysis
- CM2 Product Development Process
- The CM2 Model for Enterprise Success
- Decision-Making in Change Management
- Components of the CM2 Change Process
- Change Communication and Decision Flow
- Implementation Points, Release and Effective Dates
- Adapting Software Tools for Configuration Management Processes

Fundamentals of Systems Engineering

- 3 DAYS -

The goal of the Fundamentals of Systems Engineering training is to provide participants the essential knowledge they need to understand the concepts and practices of the systems engineering. The technical and management process details, terminology, life cycle, and best practices in systems engineering are all covered in this context. Further details are also provided on how to tailor systems engineering processes to different products, services, and industries.

The training content is compatible with the following documents:
- ISO/IEC/IEEE 15288:2015 Systems and Software Engineering - System Life Cycle Processes
- INCOSE (International Council of Systems Engineering) (2015) Systems Engineering Handbook: A Guide for System Life Cycle Process and Activities (4th ed.)

At the end of the training, participants who successfully complete the exam receive a certificate approved by SEMPRO.

Course Outline

Fundamental Systems Engineering Concepts
- Concepts of a System
- Systems Engineering
- Systems Thinking

System Life Cycle
- Generic Life Cycle
- Decision Gates
- Life Cycle Models

Technical Processes
- Business or Mission Analysis
- Stakeholder Needs and Requirements Definition
- System Requirements Definition
- Architecture Definition
- Design Definition
- System Analysis
- Implementation
- Integration

- Verification
- Transition
- Validation
- Operation
- Maintenance
- Disposal

Technical Management Processes
- Project Planning
- Project Monitoring and Control
- Decision Management
- Risk Management
- Configuration Management
- Information Management
- Measurement Process
- Quality Assurance Process

Tailoring Process of Systems Engineering
- Tailoring Process
- Lessons Learned

SAE EIA-649 Configuration Management

- 2 DAYS -

The SAE EIA-649 Configuration Management Standard is a universally accepted standard for Configuration Management (CM) in the defense, aerospace, and industrial sectors. This standard provides advanced methods for managing products and systems efficiently throughout their life cycle, particularly enabling the traceability, control, and documentation of changes during the product life cycle.

The SAE EIA-649 Configuration Management Standard incorporates modern product management approaches that take into account the dynamics and requirements of digital design and manufacturing environments. As a result, it provides a significant contribution to organizations in maintaining product quality, increasing operational efficiency, and effectively managing change processes.

The training content will cover the main functions of configuration management, including Planning, Identification, Change Management, Configuration Status Accounting, and Configuration Audits, all within the scope of the SAE EIA-649 standard, and the benefits of its implementation will be discussed.

At the end of the training, a certificate approved by SEMPRO is issued to participants.

Course Outline

Basic Concepts
History of Configuration Management
Configuration Management Standards
Structure of SAE EIA-649
CM Functions and Principles

Configuration Management Planning and Management
- Identify Context and Environment
- Product Configuration Information Processes

Configuration Identification (CI)
- Configuration Identification Throughout the Product Life Cycle
- Product Structure

- Configuration Baselines
- Configuration Items

Configuration Change Management
- Manage Requests for Changes
- Implementation of Approved Changes
- Manage Requests for Variance

Configuration Status Accounting
- CSA Information Capture and Reporting

Configuration Verification and Audit
- Physical Configuration Audit
- Functional Configuration Audit

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PLM Project Management and PLM Selection

- 2 DAYS -

PLM (Product Lifecycle Management) is the approach that enables the management of every phase of the product, from the initial idea that leads to its creation to the completion of the its life cycle. The systems that consolidate all the information generated throughout this process in a way that ensures continuity are called PLM systems.

This training covers the process-related and organizational benefits that PLM can offer to companies, the capabilities of PLM systems, the identification of selection requirements in line with the company's processes and business objectives, and the roles and scope of PLM projects.

At the end of the training, a certificate approved by SEMPRO is issued to participants.

Course Outline

PLM: Fundamental Concepts
- PLM paradigms and core concepts
- The role and importance of PLM in organizations
- Elements of active PLM platforms and PLM functions
- Expanding reach of PLM
- Global PLM trends and challenges
- Benefits of PLM

PLM Benefits and Potential Values
- Potential benefits of PLM
- Identification and measurement of PLM costs
- Measurement of PLM value
- Introduction to PLM benefits evaluation methodology
- Defining and using PLM metrics

PLM Strategy and Solution Definition
- Developing PLM strategy
- High-Level Planning
- Defining PLM strategy, PLM vision, and mission
- Defining requirements

- Defining the PLM project goals and objectives
- PLM adaptation plan and strategy

PLM Solution and Evaluation
- Evaluating and selecting PLM solutions
- Developing correct business requirements
- Developing technical requirements
- Selecting the most suitable PLM system

PLM System Adaptation, Monitoring and Continuous Improvement
- Why do projects fail?
- PLM project management skills
- Creating project plan and project organization
- Developing the adaptation plan
- Project communication
- Managing PLM expectations
- Evaluation of the adaptation

Product Life Cycle Management

- 2 DAYS -

Product Lifecycle Management Course Description and PurposePLM (Product Lifecycle Management (PLM) is the approach that enables the management of every phase the product, from the initial idea that leads to its creation to the completion of its lifecycle. The systems that consolidate all information generated throughout this process in a way that ensures continuity are called PLM systems.

The Product Life Cycle Management training covers general PLM concepts, the impact of PLM on businesses, and product-focused business management approach. Additionally, to address common needs of participants using different PLM systems, it introduces standard features and concepts shared across all systems. These concepts are grouped under metadata, product, process, project, change and requirements.

At the end of the training, a certificate approved by SEMPRO is issued to participants.

Course Outline

Introduction
- PDM, PLM, ALM, SysLM, DEPLM concepts
- Development and history of PLM
- Impact of PLM on businesses
- Product management-oriented business management
- ERP & PLM evaluation

PLM Concepts
- Meta Management
  - Searching for information
  - Object lifecycles and state protocols
  - Object revision management
  - Roles & Authorities
  - Integrations
  - Document management
  - CAD document management
  - CAD visualization
  - Audit Trail

- Process Management
  - Workflows
  - Workflow / PLM object context

- Project Management
  - Project Plans
  - Project Tasks
  - Checklists
  - Checklist Types
  - Project resource / cost management
  - Relationship of projects with other PLM concepts

- Product Management
  - "Part" as PLM object
  - "Part" and "Document" relationship
  - BOM management
  - "Product" as PLM object

- Change Management
  - Change process and workflows
  - Relationship between CM2 and PLM change processes

- Requirements Management
  - Specifications
  - Requirements
  - ReqIF and ReqMAN applications

Industrial IoT
- PLM as an IoT platform
  - Digital Twin
  - Digital Thread

- Systems Engineering
  - MBSE - Model-based systems engineering
  - PLM as an MBSE platform

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Basic Project Management

- 3 DAYS -

Project management is a methodology that involves the application of knowledge, skills, tools, and techniques developed to ensure the successful completion of projects.

Various projects, small or large, are carried out in almost every sector and organizations, from defense to automotive, design to production, public to private sector or civil organizations. The role of project success is important in the success of business and even in the sustainability of their existence.

Studies still draw attention to the low success rates in projects. When examining the root causes of this situation, deficiencies and inadequacies in the project management processes are often identified.

In this training, the foundations of this methodology, which has established its place among the management disciplines, will be explained. The main theoretical reference is the Project Management Body of Knowledge (PMBOK Guide) developed by PMI (Project Management Institute), a leading organization in the field of project management. In addition, a practical perspective will be provided through real solutions to real problems, project stories, scenarios and hands-on applications, aiming to address the concrete challenges faced by organizations in practice.

At the end of the training, a certificate approved by SEMPRO is issued to participants.

Course Outline

- Project Management History and Concepts
- Getting Started and Planning
- Scope Management
- Schedule Management
- Budget and Cost Management
- Project Manager and Team
- Internal and External Communication
- Risk Management
- Monitoring and Control
- Successful Completion of Projects

Part Numbering: Assignment and Re-identification Methods

- 3 HOURS -

During the impact analysis in the analysis and implementation phases of the change management process, it is assessed whether the part number needs to be changed. Deciding whether to keep the part number the same or re-identify it is one of the most common challenges in the change management process. In order to make this decision, it is necessary to evaluate the impact of the change on requirements such as 'Interchangeability', 'Traceability', and 'Form, Fit, Function'.

This training provides basic information about part numbering rules and covers important concepts related to the re-identification of part numbers, such as 'Interchangeability', 'Traceability', and 'Form, Fit, Function', in order to make the right decisions. The 'Part Number Re-identification Decision Tree', which offers an effective approach to professionals involved in the change management process, is introduced, along with information on how to use this decision tree correctly and effectively.

This training has been prepared as part of the "Jump Start Course" series.

At the end of the training, a certificate approved by SEMPRO is issued to participants.

Course Outline

- Numbering Rules
- Impact Analysis
- Re-Identification Decision Tree
- Application Orders
- Traceability
- Interchangeability
- Restore Interchangeable
- Practical Ways for Part Re-Identification
- Exercises

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Enterprise Transformation Model

In today's global and competitive world, organizations can survive only by continuously reviewing and renewing their ways of doing business. Every organization operates with certain inputs and produces outputs. The main goal is to increase efficiency and profitability by ensuring that the value derived from outputs exceeds the cost of inputs.

The Enterprise Transformation Model aims to increase the value of outputs, reduce losses, and define the proper structure for digital transformation by ensuring that the inputs of the processes in the company receiving consulting services are properly structured.

The Sempro Enterprise Transformation Model consists of four (4) modules.

Initially, the needs of the company wishing to implement the model are assessed. Based on this assessment, the modules can be implemented individually, entirely, or in pairs depending on the consultancy scope.

WHO WE ARE?
VISION and MISSION
WHAT ARE WE DOING?
HOW DO WE IT?
EVALUATION REPORT

01

02

CM2
SAE EIA-649
SYSTEMS ENGINEERING
PLM
PROJECT MANAGEMENT
RISK MANAGEMENT
PROCESS MANAGEMENT
JUMP START TRAININGS

ASSESMENT AND PRIATIZATION

TRAINING

**ENTERPRISE
TRANSFORMATION
MODEL**

DIGITAL TRANSFORMATION

ALIGNMENT AND PROCESS IMPROVEMENT

WORK FLOWS
DIGITALIZATION
MATURITY ASSESMENT
CLM REQUIREMENT
PLM REQUIREMENT

04

03

ADAPTATION PLAN
CHANGE ORGANIZATION
PROCESS IMPROVEMENT
PROCESS METRICS

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Consulting & Engineering

01

ASSESMENT AND PRIATIZATION

**ENTERPRISE
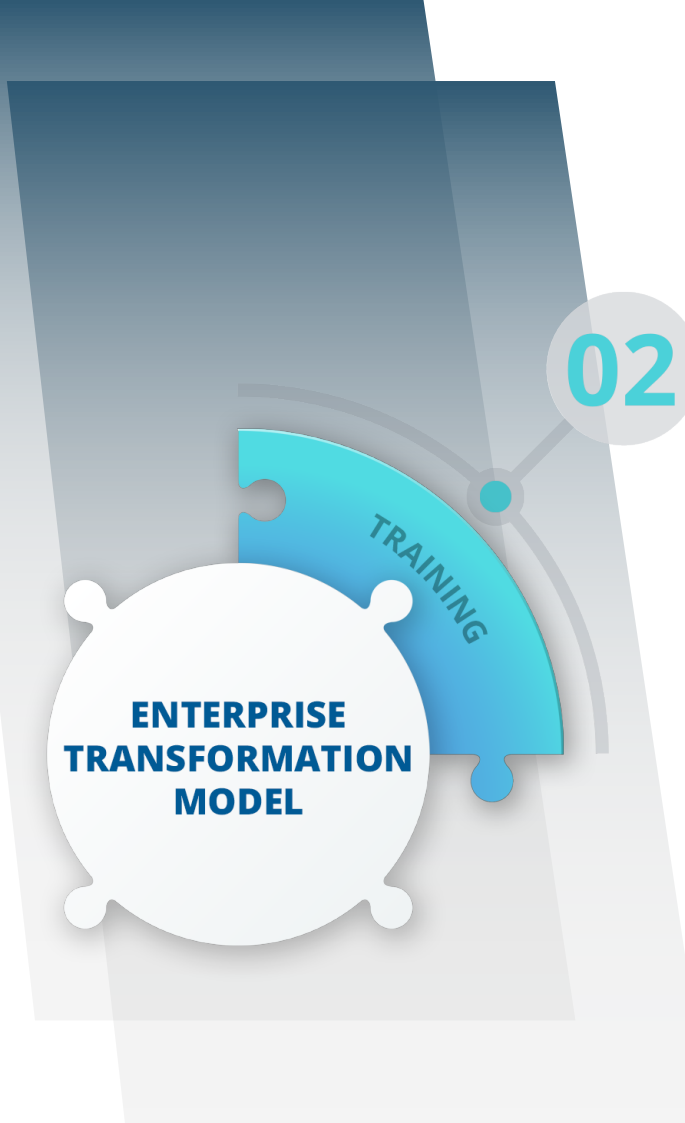TRANSFORMATION
MODEL**

Module 1:
Assesment and
Priatization

There are gaps between the processes related to the delivery of products and services and the actual practices of businesses.

With the Sempro Assessment and Prioritization Module, the company's current state is analyzed; data is collected to understand existing processes and performance; gaps and areas needing improvement are identified.

During the assessment, the answers given by process owners to the questions "Who are we?", "What do we do?", and "How do we do it?" are reviewed. Together with the process owners, the company's identity, products, ongoing activities, processes, and systems used are reviewed, deficiencies are identified, and tasks to resolve these are recorded along with their priorities and target completion dates.

As an output of this module, an "Assessment and Prioritization Report" is created. This report includes a detailed evaluation of the company's corporate identity, the processes used to manage its products and services, the gaps between current practices and best practices, as well as the tasks, their priorities, and completion deadlines for closing those gaps.

CM2
SAE EIA-649
SYSTEMS ENGINEERING
PLM
PROJECT MANAGEMENT
RISK MANAGEMENT
PROCESS MANAGEMENT
JUMP START TRAININGS

02

TRAINING

ENTERPRISE TRANSFORMATION MODEL

Module 2: Training

Before initiating process improvement efforts, the Training Module identifies the training needs of teams involved in the processes and delivers the necessary training. The goal is to enhance the knowledge, skills, and competencies of professionals involved in the transformation. A solid technical foundation among employees is critical for successfully implementing transformation initiatives.

To ensure process excellence, the training focuses on six core areas: Next-Generation Configuration Management (CM2), SAE EIA-649 Configuration Management, Fundamentals of Systems Engineering, Product Lifecycle Management, Project Management, Project Risk Management.

Module 3:
Alignment and
Process Improvement

ENTERPRISE TRANSFORMATION MODEL

ALIGNMENT AND PROCESS IMPROVEMENT

03

ADAPTATION PLAN
CHANGE ORGANIZATION
PROCESS IMPROVEMENT
PROCESS METRICS

Clearly defined, accurate, and understandable processes are essential for a company's success and sustainability.

This module identifies missing or suboptimal processes and creates a roadmap for improving or establishing them from scratch.

Each step in the roadmap is analyzed for its potential benefit to the organization. Prioritization is made considering available resources. Based on this prioritization, a "Corporate Business Process Adaptation Plan" is prepared using the findings from Module 1's Assessment and Prioritization Report. This plan includes both short-term and long-term action plans that offer quick wins and measurable outcomes.

For implementation, a pilot project must be selected to test the newly developed processes. If the pilot proves successful, a broader rollout to other projects is planned. As part of the Process Development effort, two key groups should be formed: a Steering Committee that includes decision-makers and an Implementation Team that will monitor and execute daily activities.

For sustainable transformation, committed champions are essential—individuals who believe in the process and are dedicated to seeing it through. A "Champion" with deep process knowledge and strong leadership and communication skills should be assigned to lead the initiative. This person ensures smooth execution and addresses issues swiftly to drive the project's success.

Module 4: Digital Transformation

ENTERPRISE TRANSFORMATION MODEL

DIGITAL TRANSFORMATION

WORK FLOWS

DIGITALIZATION
MATURITY ASSESMENT

CLM REQUIREMENT

PLM REQUIREMENT

04

Digital tools offer powerful technologies that bring order and efficiency to business processes. Well-designed and properly implemented digital solutions enable more controlled and productive work environments. Losses are reduced, workflows are streamlined, and human error is minimized. The success of digitalization depends on the maturity of the underlying processes.

This module identifies the needs and requirements for PLM/ERP/CLM solutions. It ensures that developed processes are properly defined and transformed into workflows using digital tools. Processes are adapted to these tools to enable their seamless digital execution.

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