

# LABNAF TRAINING CATALOG

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The present training catalog targets all Labnaf roles including architecture management, architects, strategists, and repository administrators.

The sequence of trainings in this catalog follows a logical learning path. In other words, the sequence is based on ideal prerequisites.

Each training description includes an overview, the expected audience, the prerequisites for attending the training, the expected duration, and the training objectives.

Please contact Labnaf (<https://www.labnaf.one/contact-us/>) or Sparx Services Europe (<https://www.sparxservices.eu/en/contact/>) for any further information.

## SETTING TRAINING PRIORITIES (1H)

### OVERVIEW/WHAT YOU WILL LEARN

An open discussion for optimizing the training agenda to meet your priorities.

### AUDIENCE

Architecture management

### PREREQUISITES

Watch Labnaf videos

- [Labnaf Framework Overview](#) or [Labnaf Framework Overview at Global EA Summit](#)
- [Unified Transformation Process – Step by Step](#)

### OBJECTIVES

A training agenda that meet your requirements, priorities.

Acquire the ability to define who needs to attend which training classes.

## LABNAF FRAMEWORK CONCEPTS AND COMPONENTS (STANDARD: 4H)

### OVERVIEW/WHAT YOU WILL LEARN

This course builds an understanding of the concepts and components of the Labnaf framework including the process, the language, the repository, and the tools.

### AUDIENCE

Any strategy and architecture stakeholder

### PREREQUISITES

None

### ALTERNATIVE

Carefully watch these Labnaf videos

- [Labnaf Framework Overview](#) or [Labnaf Framework Overview at Global EA Summit](#)
- [Unified Transformation Process – Step by Step](#)

### OBJECTIVES

- Understand the typical enterprise transformation challenges, including complementary but disconnected standards, absence of an end-to-end transformation process, multiple languages, awkward semantics, inconsistent terminology, complex life-cycle management, tedious content authoring, inability to coordinate enterprise architecture and solution architecture as a whole, inability to scale, manual governance, etc.
- Understand the overall process of building a unified transformation framework using precise semantics.
- Understand the Labnaf process of driving transformations from enterprise visualization and diagnoses to strategy definition, strategy execution, and project/solution architecture.
- Understand the Labnaf strategy and architecture content including architecture portfolios, catalogs, elements and connectors, metamodel, active and passive resources, performers including their lifecycle, functional performers, enterprise functions, enterprise function discovery, processes, views and viewpoints.
- Understand the Labnaf single shared repository, the sample repository and the development repository.
- Understand the Labnaf productivity tools including import and export, value calculation, diagram and heat map generation, backups, model validation, Excel and CSV generation, Word and PDF generation, web site publication, task scheduling, charts and dashboards, the customization environment, and the language transformer.
- Understand people's roles, accountabilities and responsibilities, how these applies to different types of repository content and the implementation in the repository.

## LABNAF FRAMEWORK CONCEPTS AND COMPONENTS (MINIMIZED: 2H)

### OVERVIEW/WHAT YOU WILL LEARN

This course builds an understanding of the concepts and components of the Labnaf framework including the process, the language, the repository, and the tools.

### AUDIENCE

Any strategy and architecture stakeholder

### PREREQUISITES

None

### ALTERNATIVE

Carefully watch these Labnaf videos

- [Labnaf Framework Overview](#) or [Labnaf Framework Overview at Global EA Summit](#)
- [Unified Transformation Process – Step by Step](#)

### OBJECTIVES

- Understand the overall enterprise transformation challenges.
- Understand the overall process of building a unified transformation framework using precise semantics.
- Understand the overall Labnaf process of driving transformations from enterprise visualization and diagnoses to strategy definition, strategy execution, and project/solution architecture.
- Understand the Labnaf strategy and architecture content including architecture portfolios, catalogs, elements and connectors, active and passive resources, performers functional performers, enterprise functions, processes, views and viewpoints.
- Understand the overall Labnaf productivity tools including import and export, value calculation, diagram and heat map generation, backups, model validation, Excel and CSV generation, Word and PDF generation, web site publication, task scheduling, charts and dashboards, the customization environment, and the language transformer.
- Understand the standard roles defined in Labnaf.

## MODELING WITH LABNAF – THE BASICS (3H)

### OVERVIEW/WHAT YOU WILL LEARN

During this course, you will learn modeling with Labnaf and how to organize, share and reuse content throughout the repository content lifecycle.

### AUDIENCE

- Architects, analysts and strategists.

### PREREQUISITES

Watch Labnaf videos

- [Labnaf Framework Overview](#) or [Labnaf Framework Overview at Global EA Summit](#)
- [Unified Transformation Process – Step by Step](#)
- [Starting with Labnaf](#)

Sparx Enterprise Architect basic modeling skills

### OBJECTIVES

What you will learn specifically:

- Automatically optimize the user interface for Labnaf.
- Create Labnaf diagrams to represent structure or connections.
- Provide meaningful diagram names.
- Change the type of an existing diagram.
- Multiple ways of creating Labnaf elements either one by one or in a row.
- Multiple ways of creating Labnaf connectors.
- Generate connectors for child elements.
- Manage connectors visibility on diagrams and prevent undesired connectors to appear.
- Understand how the repository is organized into portfolios, catalogs, elements and diagrams.
- Manage the content structure and lifecycle from initial architecture work, to collaborative modeling, architecture approval, integration in the shared catalogs and updating architecture states (As-Is, Transition, To-be).
- Create alternative architecture solutions
- Understand where to model what type of content
- Jump start modeling a specific model structure by reusing any part of the canonical folder structure
- Understand how the Labnaf productivity tools leverage the repository content organization during the architecture content lifecycle.

## ENTERPRISE FUNCTION PORTFOLIO AND HEAT MAPS (3H)

### OVERVIEW/WHAT YOU WILL LEARN

- What are enterprise functions and why they are so important to your organization
- Organize and navigate the architecture following the structure of enterprise functions
- Get a bird's eye view on a situation using heat maps and other types of chart, and visualize these heat maps and charts using Prolaborate dashboards.

For enterprise architects, business architects and analysts

- Create and maintain an enterprise function portfolio using the Labnaf architecture language, methods and tools
- Classify architecture and strategy items using the enterprise function hierarchy
- Create heat maps

NB: We call "enterprise functions", what some others call "business capabilities". Indeed, to model an enterprise, we need unambiguous terms. And as a matter of fact, the term "business" is quite vague. And the term "capability" is overloaded.

### AUDIENCE

- Enterprise Architects
- Business architects

### PREREQUISITES

- Training: Common Labnaf modeling tasks
- Sparx Enterprise Architect basic modeling skills

### OBJECTIVES

Learn what enterprise functions (aka business capabilities) are and why you need those.

Learn how to identify, visualize, analyze and optimize

- enterprise functions (groups of enterprise activities)
- how they are logically structured
- how they interact
- information they exchange
- access point they use (face-to-face, EDI, email, web site, phone...)
- which ones are differentiators
- which ones are externalized
- how they are realized by software, people and equipment

Learn how to create, publish and navigate base maps, heat maps and charts

- The difference between holistic and selective heat maps and charts
- Create base maps and heat maps using auto legends
- How heat maps and charts leverage imports, cascaded calculated values, and diagram generation
- Generate and zoom into functional application diagrams
- Use the Prolaborate portal to navigate dashboards, heat maps and other charts
- Generate enterprise function portfolio reports

Learn how enterprise functions are used for organizing enterprise strategy and architecture data

- applications, information, processes, target capabilities
- assignment of functional domains to people

## PROCESS PORTFOLIO (2H)

### OVERVIEW/WHAT YOU WILL LEARN

- Understanding the process portfolio contents
- Describing value streams and processes
- Describing detailed activities

### AUDIENCE

- Business process modelers
- Business architects
- Solution architects
- Enterprise architects
- Functional analysts

### PREREQUISITES

- Training: Common Labnaf modeling tasks
- Sparx Enterprise Architect basic modeling skills

### OBJECTIVES

For Business Architects

- How to create and maintain a process portfolio using the Labnaf architecture language, methods and tools

For Solution Architects, IT Managers, Analysts, Operations...

- Navigate the process portfolio in the Model Repository
- Understand the processes inputs, outcomes and performers involved
- Describe the software, people and equipment realizing the processes and detailed activities

## INFORMATION PORTFOLIO, FLOWS AND CLASSIFICATIONS (3H)

### OVERVIEW/WHAT YOU WILL LEARN

- Understanding the Information Portfolio Contents
- Building and Maintaining the Information Portfolio
- Information Flows at Different Levels of Detail
- Sensitive Information classification

### AUDIENCE

- Information architects
- Security experts
- Business architects
- Enterprise architects
- Solution architects

### PREREQUISITES

- Training: Common Labnaf modeling tasks
- Sparx Enterprise Architect basic modeling skills

### OBJECTIVES

For Architects and Security experts

- How to create and maintain an information portfolio using the Labnaf architecture language, methods and tools
- How to describe information exchanges and the exchange of resources in general
- Master data management with Labnaf
- Architecture of systems integration
- Sensitive information management and reporting

For Non-Architects (IT Managers, Analysts, Operations...)

- Navigate the information portfolio in the Model Repository
- Understand how information and other resources are used and produced



## APPLICATION PORTFOLIO (3H)

### OVERVIEW/WHAT YOU WILL LEARN

- Understanding the Application Portfolio Contents
- Building and Maintaining the Application Portfolio
  - Creating New Applications
  - Creating Application Architecture Views
  - Generating Portfolio Reports

### AUDIENCE

- Enterprise Architects
- Application Portfolio Manager
- Solution Architect

### PREREQUISITES

#### Training

- Common Labnaf modeling tasks
- Enterprise Function Portfolio
- Sparx Enterprise Architect basic modeling skills

### OBJECTIVES

Learn how to Visualize, analyze, and optimize applications'

- functionalities (what are/will they used for?)
- TCO, functional fit, technical fit, reliability, level of documentation
- criticality details e.g. financially sensitive, customer facing, privacy sensitive, safety critical, service level category, recovery point objectives
- contact information e.g. business owner, IT responsible personnel
- interactions with people and/or other applications
- information exchanges
- communication protocols they use
- components they contain
- data stores, cloud services and technologies they use
- usage in server hardware and equipment (IOT...)
- actual and envisioned existence over time (which ones are standard?)
- lifecycle status

## TECHNOLOGY ARCHITECTURE (2H30)

### OVERVIEW/WHAT YOU WILL LEARN

- Understanding the Technology Architecture Contents (lifecycle, cloud-based, contracts with providers...)
- Building and Maintaining the Technology Architecture
- Application dependencies on technologies
- Application deployment on technologies

### AUDIENCE

- Technical/Infrastructure architects
- Enterprise architects
- Solution architects
- Application portfolio manager

### PREREQUISITES

- Training: Common Labnaf modeling tasks, Application Portfolio
- Sparx Enterprise Architect basic modeling skills

### OBJECTIVES

Ability to define, visualize & optimize...

Technology Portfolio	What technologies are (could) we using? What is their lifecycle? Which ones are cloud based? Which contracts do we have with providers? Who are the providers?
Application Portfolio	What applications use which technologies?
Solution Architecture	How shall I deploy my solution?
Technology Team Roles	Who is doing what (only suggestions)?

## SOLUTION ARCHITECTURE – STRATEGY TO APPLICATION DEPLOYMENT STEP BY STEP (3H)

### OVERVIEW/WHAT YOU WILL LEARN

During this course, you will learn how to describe architecture changes to the operating model, in the context of a project.

Changes can involve processes, people, applications, components, data stores, supporting technologies, services, information and information flows...

### AUDIENCE

- Solution architects
- Technical/Infrastructure architects
- Application portfolio manager
- Enterprise architects

### PREREQUISITES

Training

- Common Labnaf modeling tasks
- Process Portfolio
- Application Portfolio
- Technology Portfolio

### OBJECTIVES

For Architects, learn how to

- How to create a solution architecture description using the architecture language, methods and tools
- How this solution architecture will evolve over time

For any project stakeholder, learn how to

- Navigate the solution architecture description in the Model Repository

Coordinate and Trace High-Level Requirements, Project Management and Solution Architecture

## STRATEGY DEFINITION (2H)

### OVERVIEW/WHAT YOU WILL LEARN

- Understanding the Strategy Definition Contents
- Building and Maintaining the Strategy Definition
  - Context Analysis and Diagnosis
  - Corporate Strategic Foundations
  - Strategic Plans

### AUDIENCE

- Strategists
- Enterprise Architects

### PREREQUISITES

Watch Labnaf videos

- [Labnaf Framework Overview](#) or [Labnaf Framework Overview at Global EA Summit](#)
- [Unified Transformation Process – Step by Step](#)

Training

- Common Labnaf modeling tasks

### OBJECTIVES

Learn how to review and to define goals based on the business context

- Current context: Internal & external factors influence success or failure
- Corporate strategic foundation: The organization's identity (mission, vision, values, business model)
- Strategy plans: Corporate strategic objectives, SMART goals (cascaded into domain-specific goals)

## STRATEGY EXECUTION (2H)

### OVERVIEW/WHAT YOU WILL LEARN

- Understanding the Strategy Execution Contents
- Creating Strategy Execution Content
  - Directives & Demands
  - High-level Requirements (target capabilities) Roadmap

### AUDIENCE

- Enterprise Architects
- Demand Management
- Program/Project Managers
- Other stakeholders in transformation planning

### PREREQUISITES

Watch Labnaf videos

- [Labnaf Framework Overview](#) or [Labnaf Framework Overview at Global EA Summit](#)
- [Unified Transformation Process – Step by Step](#)

Training

- Common Labnaf modeling tasks

### OBJECTIVES

- Learn how to define and/or visualize
  - What principles and standards need to be collectively applied to ensure the quality and value of the architecture
  - How do domain-specific goals translate into demands
  - How will goals and demands translate into high-level requirements (capabilities, features...)
  - What are the requirements' impacts, their interdependencies, their roadmaps and their status
  - What vehicles (epics) will be used to deliver these high-level requirements?
- Navigate the Strategy Execution content in the Model Repository

## ARCHITECTURE MANAGEMENT AND ROLE-BASED ACCESS CONTROL (1H)

### OVERVIEW/WHAT YOU WILL LEARN

- How to manage your architecture team in a shared repository
- How to secure a repository (role-based access control)

### AUDIENCE

- Repository administrator
- Architecture management
- Architects

### PREREQUISITES

Watch Labnaf videos

- [Labnaf Framework Overview](#) or [Labnaf Framework Overview at Global EA Summit](#)
- [Unified Transformation Process – Step by Step](#)

Training

- Training specific to each role

### OBJECTIVES

Learn how to

- Model your architecture teams, individuals, roles and assignments
- Assign roles and repository content to individuals
- Create dynamic architecture management reports
- Secure your repository
- Implement related security groups in the repository
- Define which groups have read or write access to which part of the repository content (role-based access control)

## IMPORTING ELEMENTS, CONNECTORS, AND PROPERTY VALUES (2H)

### OVERVIEW/WHAT YOU WILL LEARN

This course goes through different techniques for importing new architecture, connectors, and property values in a model repository.

### AUDIENCE

Repository administrator

### PREREQUISITES

Sparx Enterprise Architect basic modeling skills

### OBJECTIVES

Ability to

- import on demand or periodically,
- new elements, properties, and connectors from Excel, CSV, and XML
- define element identifiers for updating elements
- define column name mappings
- define character encodings
- define CSV column delimiters

## REPORTING (2H)

### OVERVIEW/WHAT YOU WILL LEARN

This course will guide you through the steps for creating Excel and CSV Report templates, and how to use the predefined Word/PDF Labnaf document template.

### AUDIENCE

- Any strategy and architecture stakeholder
- Repository administrator

### PREREQUISITES

Sparx Enterprise Architect modeling skills

### OBJECTIVES

Learn how to

- Model tabular report templates including property groups, and cross-relationships
- Create and test SQL queries (reusing a large collection of SQL queries provided during the training)
- Generate Word/PDF/RTF documents, using the Labnaf provided templates, for principles, standards, solution architecture or any other structure in the model repository



## VALUE CALCULATION (3H)

### OVERVIEW/WHAT YOU WILL LEARN

This course will guide you through the steps for calculating values.

### AUDIENCE

Repository administrator

### PREREQUISITES

Sparx Enterprise Architect modeling skills

SQL skills

### OBJECTIVES

Learn how to

- Model initial and periodical value calculations
- Create and test SQL queries (reusing a large collection of SQL queries provided during the training)
- Cascade calculations
- Present the results in heat map diagrams, charts or reports

## LABNAF POWERSHELL (3H)

### OVERVIEW/WHAT YOU WILL LEARN

This course will guide you through the steps for scheduling miscellaneous tasks including imports, calculations, diagram, report and HTML generation, validation and backups.

### AUDIENCE

Repository administrator

### PREREQUISITES

Sparx Enterprise Architect modeling skills

### EXPECTED DURATION (HOURS)

1.5

### OBJECTIVES

Learn using the Labnaf PowerShell environment to schedule

#### **Data Enrichment**

- Automatic calculations
- Diagram generation
- Connector generation

#### **Document and HTML Publication**

- Word/PDF/RTF document generation
- HTML web site generation

#### **Quality Management and Database Snapshots**

- Model validation
- Backup to database file

#### **Systems Integrations and Excel Reporting**

- Excel and CSV import of elements and connectors
- Excel and CSV generation of selected elements and cascaded relationships with grouping and filters
- Export/Import to/from XMI

#### **Automatic Model Refactoring and Content Normalization**

- Move elements and packages to specific package
- Move elements to calculated parent element (rule-based)
- Set diagram properties (FreezeVisible | Locked | Name | Stereotype)

- Create package
- Rename element, package or diagram

## LABNAF LANGUAGE CUSTOMIZATION (3H)

### OVERVIEW/WHAT YOU WILL LEARN

This course will guide you through the steps for customizing the Labnaf modeling language and for defining calculated values, following your organization requirements.

### AUDIENCE

Repository administrator

### PREREQUISITES

Sparx Enterprise Architect modeling skills

### OBJECTIVES

Learn using the Labnaf Customization Workbench in order to

- Use the DEV, TEST, PROD environments, and
- Add element or connector tagged values/properties
- Change the Labnaf language metamodel
- Test and publish to production
- Deploy a dynamic language configuration at large scale

Learn how to add calculated tagged values that are calculated

- Either periodically
- Or when new elements are created

## LANGUAGE TRANSFORMATION (4H)

### OVERVIEW/WHAT YOU WILL LEARN

This course provides practical guidance, examples, and templates for transforming existing repository content from one modeling language to another one.

There are two main reasons why you would want to transform repository content

- You want to transform existing content from one or several modeling languages (UML, ArchiMate, BPMN...) into one single Labnaf modeling language
- You customized the Labnaf modeling language or the metamodel in such a way that it requires some changes in the existing repository content

### AUDIENCE

Repository administrator

### PREREQUISITES

Sparx Enterprise Architect modeling skills

### OBJECTIVES

Learn using the Labnaf Language Transformer in order to

- change element types, connector types, diagram types in an existing repository
- rename and delete tagged values
- create/reuse/adapt templates for creating a stream of transformation commands
- create/reuse/adapt test data and test scripts