+33 (0)1 48 10 09 46
formation@ambient-it.net
140 Avenue Jean Lolive 93500 Pantin - France

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Sign up

IS Urbanization Training

2 days (14 hours)

Presentation

Information system (IS) urbanization is a key approach for developing an IS in a coherent way, aligned with business needs, while controlling its complexity and costs.

This course enables you to structure and rationalize your IS by applying the principles of urban planning (zones, districts, functional blocks) to build a sustainable, modular and scalable architecture.

You'll learn how to map existing systems, identify friction points, design a target architecture aligned with corporate objectives, and plan a progressive transformation trajectory.

This will enable your team to better manage IS projects, reduce application redundancies, integrate new services more rapidly and ease the transition to modern architectures.

Thanks to a concrete, structured approach, illustrated by practical workshops, you'll be able to implement the foundations of effective IS urbanization, whatever your size or sector of activity.

Like all our training courses, this one incorporates best practices from the field, as well as the latest methods in enterprise architecture.

Objectives

- Understand the principles and challenges of IS urbanization
- Master the concepts of layers, functional blocks and weak coupling

- Map existing IS and identify pain points
- Design a coherent, modular and interoperable target architecture
- Plan a progressive and realistic evolution trajectory
- Apply the principles of governance and strategic alignment

Target audience

- IT Architects
- Product Owners
- IT Managers
- CIOS

Prerequisites

- General knowledge of how an information system works
- No technical prerequisites

Understand the challenges of IS urbanization

- What is information system urbanization?
- Symptoms of a non-urbanized IS: complexity, redundancy, rigidity
- Urbanization as a lever for strategic alignment
- Analogies with city planning: zones, districts, blocks
- Differences between urbanization, enterprise architecture and re-engineering
- Company players involved: IT, business, products, management

Methodological foundations

- The four layers of urbanization: business, functional, application and technical
- IS division into functional blocks: zones, districts, islands
- Key principles: modularity, weak coupling, subsidiarity, progressiveness
- Frameworks: TOGAF, Zachman, ArchiMate (overview)
- Role of the urbanization plan and master plan
- Visual mapping tools (tables, matrices, functional mapping)

Diagnose the existing system

- Identify current IS components
- Assess functional maturity and consistency
- Identify redundancies, silos and strong dependencies
- Understand exchange flows between applications
- Analyze business processes and functional requirements
- Preparing a mapping of existing systems
- Workshop: Express IS diagnosis

Design an urbanized target architecture

- Define target functional areas and blocks
- Reduce critical interfaces and promote interoperability
- Integrate cloud, SaaS, microservices and API issues
- Maintain consistency between business, functional and application views
- Prioritize business needs and evolution scenarios
- Formalize a shared target vision
- Workshop: Designing an urbanized target

Manage the evolution trajectory

- Build a progressive IS master plan
- Identify quick wins and structuring projects
- Plan transformations in coherent batches
- Prioritize actions according to impact and feasibility
- Manage dependencies between projects and components
- Measure progress and reassess priorities

Integrate urbanization into the organization on a long-term basis

- Urbanization governance: roles, rules, processes
- Keeping mapping and architecture up to date
- Linking urbanization, agile, DevOps and product architecture
- Urbanization and continuous transformation: a resilience factor
- Experience feedback: large corporations vs. startups
- Individual action plans: what can you do tomorrow in your own context?

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level on different types of technology, as well as his or her expectations and personal objectives with regard to the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.