



Applying the Unified Process

*Experience genuine's training sessions
that go beyond standard course content*

About Genuine

We design and conceive tailor-made solutions in the area of B2B connectivity and integration. Both are key technologies that create added value in terms of improved business results. These business results can be translated into increased profitability, sales volumes, quality, reduced costs and improved risk management. Furthermore, our background enables us to seamlessly combine legacy technology with cutting edge concepts such as webServices and OOAD approaches

Based in Brussels, we rely on consultants and trainers that are well-versed in explaining complex matters in a down-to earth approach that will give you the necessary awareness of what exactly XML, UML or Middleware solutions can offer to your organization. Our consultancy services cover a broad scope of these next-generation topics and we make sure that our project knowledge is quickly translated into valuable training course material.

As we move into an era where web Services are key, you'll want to know exactly how to prepare to keep a competitive edge upon your business partners. Does it need emphasis that modeling is essential for an enterprise? We are confident that our genuine training offerings can give you the competitive edge that leaves others staring behind.

Approach

Lots of training courses face similar problems: out-of-the book material is given without making the link to real-world usage of the technology. Genuine's Biztalk training material is based on project experience and offers a varied approach that will keep you focused by alternating between theory and practice. Several case studies further ease assimilation of the treated subjects by offering tangible examples.

The Unified Process

The Unified Process has become a defacto standard for guiding software development teams through the software development process. Our course will explain the key concepts and best practices on which the Unified Process is based. Participants will experience first-hand how different standard templates can be used to guide the project. The unified process' iterative approach is emphasized throughout the course by adding complexity as we gain more insight into the inner workings of this methodology.

The UP is more than a single process; it is a generic process framework that can be specialized for a very large class of software systems, for different application areas, types of organizations & different project sizes.

We will provide an explanation of the phases and milestones associated with the process. The core process workflows will be presented in the context of the phases.

Tools and standards

Industry standard tools are used throughout the course to offer hands-on experience that immediately puts the treated subjects into a real-life context.

Objectives:

- Understand best practices for software development and the benefits that these practices provide.
- Learn about the workflows that deliver tangible deliverables throughout the software development lifecycle.
- Understand the phases and milestones that make up the Unified Process.
- Given these practices understand the software development lifecycle.

Package 1

Software Development Best Practices

- Symptoms and root causes of software development problems
- The Rational Unified Process
- The four P's in software development

The Unified Process

- What is the UP?
- An iterative and incremental process
- Software Best Practices in the Unified Process
- Other key features in the Unified Process

The Disciplines involved in Software Development

- Roles, responsibilities and activities
- Workers and workflow
- The role of analysis in the software cycle
- Use of templates, guidelines and concepts

Requirements Analysis

- Customer Requirements, Goals, and Expectations
- Benefits of Use Cases and Usage Scenarios
- Defining and developing Usage Scenarios
- From vision to requirements

A Use-Case-Driven Process

- Why Use Cases?
- Capturing the requirements as Use Cases
- Realization of Use Cases.
- Identifying Use Cases
- Evolving Use Cases
- Organizing Use Cases

Inception

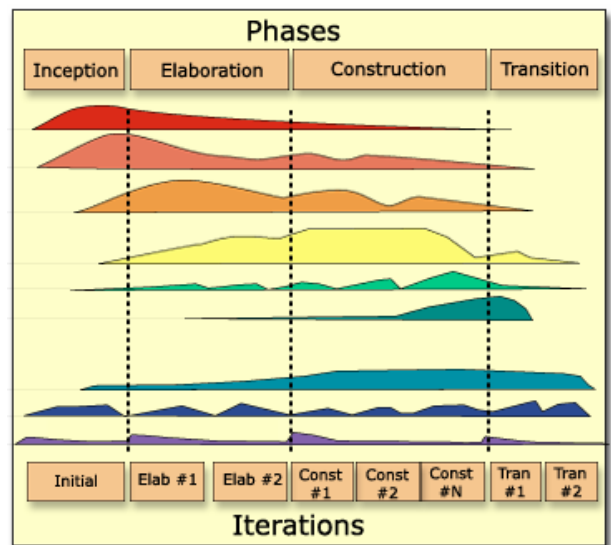
- Main activities in inception
- Workers involved in inception
- The different activities during the first phase
- Inception workflows
- Exercise: create use case & sequence diagram
- Milestones

Managing the Iterative Development Lifecycle

- The sequential process
- Working with Unified Process Phases
- The generic iteration workflow
- Benefits of an iterative approach

Elaboration

- Main activities during elaboration
- Workers involved in elaboration
- The different activities during the second phase
- Elaboration workflows
- Exercise: domain model & operation contract
- Milestones



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Package 2

An Architecture-Centric Process

- The importance of architecture
- An architecture-centric process
- Use cases and architecture: which comes first?
- The 6 views in the Unified Process
- Traceability between the 6 views
- Service packages and Subsystems

Construction

- Main activities during construction
- Workers involved in construction
- The different activities during the third phase
- Construction workflows
- Exercise: create collaboration & class diagram
- Milestones

Applying Unified Process Disciplines

- Business modeling discipline
- The project management
- The requirements discipline
- Analysis and design discipline
- Implementation discipline
- The testing discipline
- Configuration and change management

Transition

- Main activities during transition
- Workers involved in transition
- The different activities during the last phase
- Transition workflows
- Exercise: some basic test case & procedures
- Milestones