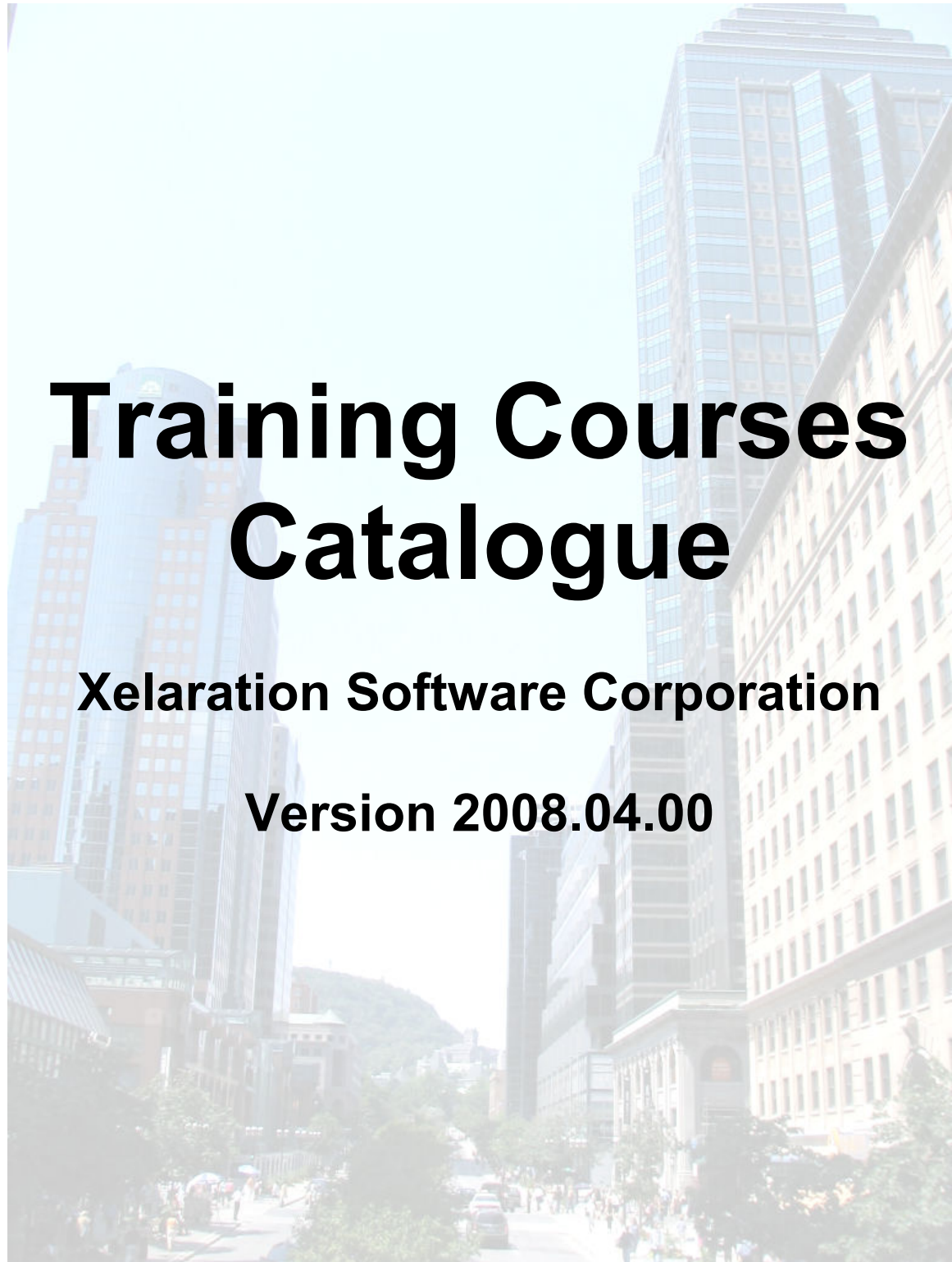


Xelation

■ ■ ■ Software Corporation ■ ■ ■



Training Courses Catalogue

Xelation Software Corporation

Version 2008.04.00

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Hundreds Trained in Software Engineering Best Practices

XelARATION Software has successfully trained hundreds of software engineering professionals since its inception in 2003. Our students come from all sectors of the economy and mainly from major Canadian metropolitan cities. They appreciate the quality of our courseware and the professionalism of our instructors.

Our Courses

We offer courses on software engineering based on industry best practices. Our current offering includes the following titles:

- Unified Process Essentials (1 day)
- Requirements Engineering with Use Cases Essentials (2 days)
- Object-Oriented Analysis and Design Essentials (2 days)
- Iterative Project Management Essentials (1 day)
- Test Management with Use Cases Essentials (1 day)
- Configuration and Change Management Essentials (1 day)

Our courses are based on standards such as:

- Unified Process
- Guide to the Software Engineering Body of Knowledge (SWEBOKSM)
- Capability Maturity Model Integration (CMMI[®])
- Guide to the Project Management Body of Knowledge (PMBOK[®])

We also offer courses on software engineering best practices, techniques and tools from IBM[®] Rational Software.

Our Instructors

All our instructors are practitioners with many years of experience in their respective fields. They all have “real-world” experience on top of a solid foundation in theoretical knowledge. Our instructors are specialized in the following software engineering disciplines:

- Software Engineering Management
- Business Analysis and Requirements Engineering
- Architecture, Design and Development
- Test Management and Quality Assurance
- Configuration and Change Management
- Process Engineering

Our Mission

To accelerate the success of our customers in improving their software engineering capabilities enabling them to achieve their business goals.

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Unified Process Essentials

Highlights

- Duration: 1 day
- Level: Beginner
- Type: Instructor-led
- Teaching approach: Tell me, show me and let me
- Delivery strategy: Lectures

Description

This course introduces the Unified Process in terms of its main characteristics: use-case driven, architecture-centric, iterative and incremental. It describes the structure and content of the process based on its elementary building blocks: roles, tasks, artifacts, disciplines, workflows, activities, phases, iterations and milestones. It highlights the differences between the existing instances of the process and when these instances are applicable: the original Unified Process, the IBM® Rational® Unified Process® (RUP®) and the Eclipse Open Unified Process (OpenUP). It presents in details the key elements of the process disciplines: Business Modeling, Requirements, Analysis & Design, Implementation, Test, Deployment, Project Management, Configuration & Change Management and Environment. It demonstrates how these key elements evolve through the phases of the process lifecycle: Inception, Elaboration, Construction and Transition.

Objectives

Upon completion of this course, participants will be able to:

- Understand the characteristics and structure of the Unified Process
- Understand the benefits and challenges of implementing the Unified Process
- Identify the key elements of the Unified Process disciplines
- Understand how the key elements evolve through the Unified Process lifecycle

Topics

- Unified Process Overview
- Unified Process Disciplines: Requirements, Analysis & Design, Project Management, Implementation, Test, Deployment, Configuration & Change Management, Business Modeling and Environment
- Unified Process Lifecycle: Inception, Elaboration, Construction and Transition

Audience

Analysts, Architects, Designers, Developers, Testers, Project Managers, Configuration Managers, Process Engineers and Tool Specialists

Prerequisites

Basic understanding of software development and maintenance

Contact Us

Phone: (450) 419-4058

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Web: www.xelaration.com

IBM®, Rational®, Rational Unified Process® and RUP® are registered trademarks of International Business Machines Corporation.

Requirements Engineering with Use Cases Essentials

Highlights

- Duration: 2 days
- Level: Beginner
- Type: Instructor-led
- Teaching approach: Tell me, show me and let me
- Delivery strategy: Lectures and workshops

Description

This course introduces the students to requirements engineering best practices as described in the Guide to the Software Engineering Body of Knowledge (SWEBOK®) and the Capability Maturity Model IntegrationSM for Software Engineering (CMMISM-SW). It presents a process based on requirements engineering with use cases as described in the Requirements discipline of the Unified Process: stakeholder needs elicitation, vision definition, software requirements specification and requirements change management. It describes in details the techniques of requirements development (elicitation, analysis, specification and validation) and requirements management (baselining, traceability and change management). It shows how use-case modeling techniques can be applied to develop and manage the functional requirements of software systems. It includes on-going workshops to ensure assimilation of the material by the students.

Objectives

Upon completion of this course, participants will be able to:

- Understand requirements engineering best practices as described in the Guide to the Software Engineering Body of Knowledge (SWEBOK®) and the Capability Maturity Model IntegrationSM for Software Engineering (CMMISM-SW)
- Apply a process based one requirements engineering with use cases as described in the Unified Process

Topics

- Introduction to Requirements Engineering Best Practices
- Process based on Requirements Engineering with Use Cases as described in the Unified Process: Stakeholder Needs Elicitation, Vision Definition, Software Requirements Specifications with Use Cases and Other Requirements Engineering Considerations

Audience

Analysts, Architects, Designers, Testers and Project Managers

Prerequisites

Basic understanding of software development and maintenance

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Object-Oriented Analysis & Design Essentials

Highlights

- Duration: 2 days
- Level: Beginner
- Type: Instructor-led
- Teaching approach: Tell me, show me and let me
- Delivery strategy: Lectures and workshops

Description

This course introduces the students to analysis and design best practices as described in the Guide to the Software Engineering Body of Knowledge (SWEBOK[®]) and the Capability Maturity Model IntegrationSM for Software Engineering (CMMISM-SW). It presents a process based on object-oriented analysis & design for transforming requirements with use cases into a high-level architecture and a detailed design as described in the Analysis & Design discipline of the Unified Process: architecture definition, use case analysis and system design. It describes the techniques of analysis & design to bridge the gap between requirements expressed using use case modeling techniques and implementation of the design using an object-oriented software language. It shows how to apply the Unified Modeling LanguageTM (UMLTM) to model the structure and behavior of software systems. It includes on-going workshops to ensure assimilation of the material by the students.

Objectives

Upon completion of this course, participants will be able to:

- Understand analysis & design best practices as described in the Guide to the Software Engineering Body of Knowledge (SWEBOK[®]) and the Capability Maturity Model IntegrationSM for Software Engineering (CMMISM-SW).
- Apply a process based on object-oriented analysis & design with the UMLTM as described in the Unified Process.

Topics

- Introduction to Analysis & Design Best Practices
- Process based on Object-Oriented Analysis & Design with the UMLTM as described in the Unified Process: Architecture Definition, Use Case Analysis and System Design

Audience

Analysts, Architects, Designers and Developers

Prerequisites

Basic understanding of software development and maintenance

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Iterative Project Management Essentials

Highlights

- Duration: 1 day
- Level: Beginner
- Type: Instructor-led
- Teaching approach: Tell me, show me and let me
- Delivery strategy: Lectures and workshops

Description

This course introduces the students to project management best practices as described in Guide to the Project Management Body of Knowledge (PMBOK®). It presents a process based on iterative project management for successfully managing software development and maintenance projects as described in the Project Management discipline of the Unified Process: project initiating, project planning, project executing, project monitoring and controlling, and project closing. It shows how iterative development techniques can be applied to deliver software systems on-budget and on-time with the agreed-upon scope and the right level of quality. It includes on-going workshops to ensure assimilation of the material by the students.

Objectives

Upon completion of this course, participants will be able to:

- Understand project management best practices as described in the Guide to the Project Management Body of Knowledge (PMBOK®)
- Apply a process based on iterative project management as described in the Unified Process

Topics

- Introduction to Project Management Best Practices
- Process based on Iterative Project Management as described in the Unified Process: Project Initiating, Project Planning, Project Executing, Project Monitoring and Controlling, and Project Closing

Audience

Project Managers and Process Engineers

Prerequisites

Basic understanding of software development and maintenance

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Test Management with Use Cases Essentials

Highlights

- Duration: 1 day
- Level: Beginner
- Type: Instructor-led
- Teaching approach: Tell me, show me and let me
- Delivery strategy: Lectures and workshops

Description

This course introduces the students to test and quality best practices as described in the Guide to the Software Engineering Body of Knowledge (SWEBOK®) and the Capability Maturity Model IntegrationSM for Software Engineering (CMMISM-SW). It presents a process based on test management with use cases for verifying and validating the quality of software systems as described in the Test discipline of the Unified Process: test planning, test design, test implementation, test execution and test evaluation. It includes on-going workshops to ensure assimilation of the material by the students.

Objectives

Upon completion of this course, participants will be able to:

- Understand test and quality best practices as described in the Guide to the Software Engineering Body of Knowledge (SWEBOK®) and the Capability Maturity Model IntegrationSM for Software Engineering (CMMISM-SW)
- Apply a process based on test management with use cases as described in the Unified Process

Topics

- Introduction to Testing and Quality Best Practices
- Process based on Test Management with Use Cases as described in the Unified Process: Test Planning, Test Design, Test Implementation, Test Execution and Test Evaluation

Audience

Analysts, Developers, Testers and Project Managers

Prerequisites

Basic understanding of software development and maintenance

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Configuration & Change Management Essentials

Highlights

- Duration: 1 day
- Level: Beginner
- Type: Instructor-led
- Teaching approach: Tell me, show me and let me
- Delivery strategy: Lectures and workshops

Description

This course introduces the students to configuration & change management best practices as described in the Guide to the Software Engineering Body of Knowledge (SWEBOK[®]) and the Capability Maturity Model IntegrationSM for Software Engineering (CMMISM-SW). It presents a process based on configuration & change management for managing changes to configuration items as described in the Configuration & Change Management discipline of the Unified Process: configuration identification, configuration control, configuration status accounting and configuration auditing. It includes on-going workshops to ensure assimilation of the material by the students.

Objectives

Upon completion of this course, participants will be able to:

- Understand configuration & change management best practices as described in the Guide to the Software Engineering Body of Knowledge (SWEBOK[®]) and the Capability Maturity Model IntegrationSM for Software Engineering (CMMISM-SW)
- Apply a process based on Configuration & Change Management as described in the Unified Process

Topics

- Introduction to Configuration & Change Management Best Practices
- Process based on Configuration & Change Management as described in the Unified Process: Configuration and Change Control Planning, Configuration Item Change and Delivery, Baseline and Release Management, Configuration Status Monitoring and Reporting, and Change Request Management

Audience

Configuration Managers and Project Managers

Prerequisites

Basic understanding of software development and maintenance

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