

Software Change, Configuration And Release Management

Course: **00035**

Filter: **Beginner**

Duration: **20 hours**

Category:: **Software Engineering**

Price: **3500,00 €**

About Course

Increase efficiency, and decrease maintenance time and development costs with this Software Control Management (SCM) training. In this course, you practice configuration activities — such as configuration planning, change control and management, system building, and version and release management — and learn how the application core processes of SCM contribute to the success of a software project.

What you'll learn

- Implement and effectively lead SCM activities
- Match project needs to CM process capability
- Construct a CM plan for traditional and Agile projects
- Manage requests by specifying Configuration Control procedures

Pre-requisites

- Familiarity with the software development life cycle

Curriculum

Module 1: Configuration and Release Management

- Determining causes of failure in project scenarios
- Positioning strong internal CM controls
- Controlling quality in the development life cycle
- Releasing stable configurations
- Configuration Identification
- Version Management
- Configuration Control
- Change Management
- Configuration Status Accounting
- Reporting
- Configuration Audits
- Compliance
- Build and Release Management

Module 2: Identifying Configuration Items (CIs)

- Extracting CIs from the product and the project
- Itemizing six steps to bring a work product under configuration management control
- Devising an effective naming scheme
- Classifying items based on the nature of the project
- Aligning a CI into one of four categories
- Defining baselining procedures and creating a checklist
- Declaring configuration or phase baselines
- Checking CIs into a repository

Module 3: Controlling Change

- Establishing an infrastructure to manage project change
- Comparing change control from a traditional to an Agile perspective
- Specifying the role of the SCM team
- Establishing change control procedures
- Facilitating change from requirements through maintenance
- Processing a change request
- Investigating defects and deciding corrective action
- Evaluating urgency
- Determining severity

- Prioritize

Module 4: Communicating Configuration Status

- Identifying reports required in each phase of CM
- Determining the communication needs of stakeholders
- Improving processing by using a configuration database
- Anticipating report types by role types
- Planning what to collect in order to report
- Adding CSA requirements to vendor contracts

Module 5: Auditing in Preparation for a Release

- Distinguishing between QA and SCM activities
- Clarifying types of SCM audits
- Timing audits throughout the development life cycle
- FCA and PCA checklists
- Baseline and release audits
- Ensuring the documentation matches the product
- Verifying product configuration

Module 6: Building and Releasing the Product

- Establishing independence by separating development from the build
- Managing unique code lines and versions
- Knowing why and when to branch and use variants
- Planning a release strategy
- Resources needed for a smooth release process
- Matching process steps to release types
- Positioning Quality Gates in the development life cycle
- Timing the release appropriately