SOFTWARE CHANGE, CONFIGURATION AND RELEASE MANAGEMENT

Course number : 136

Overview

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

Who should attend

Pre-requis

- Familiarity with the software development life cycle

Outline

Configuration and Release Management

Analyzing business factors driving CM

- Determining causes of failure in project scenarios
- Positioning strong internal CM controls
- Controlling quality in the development life cycle
- Releasing stable configurations

Demystifying core CM processes

- Configuration Identification
- Version Management
- Configuration Control

- Change Management
- Configuration Status Accounting
- Reporting
- Configuration Audits
- Compliance
- Build and Release Management

Identifying Configuration Items (CIs)

Deriving candidate items for the project

- Extracting CIs from the product and the project
- Itemizing six steps to bring a work product under configuration management control

Categorizing and naming items

- Devising an effective naming scheme
- Classifying items based on the nature of the project
- Aligning a CI into one of four categories

Baselining CIs

- Defining baselining procedures and creating a checklist
- Declaring configuration or phase baselines
- Checking CIs into a repository

Controlling Change

Determining roles and responsibilities

- Establishing an infrastructure to manage project change
- Comparing change control from a traditional to an Agile perspective
- Specifying the role of the SCM team

Creating a change control process

- Establishing change control procedures
- Facilitating change from requirements through maintenance

Distinguishing between defects and enhancements

- Processing a change request
- Investigating defects and deciding corrective action
- Evaluating urgency
- Determining severity
- Prioritize

Communicating Configuration Status

Planning the reporting requirements

- Identifying reports required in each phase of CM
- Determining the communication needs of stakeholders
- Improving processing by using a configuration database

Matching reporting needs to development life cycle

- Anticipating report types by role types
- Planning what to collect in order to report
- Adding CSA requirements to vendor contracts

Auditing in Preparation for a Release

Designing Configuration Audits

- 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

Assessing release readiness

- Ensuring the documentation matches the product
- Verifying product configuration

Building and Releasing the Product

Ensuring consistency through the build process

- Establishing independence by separating development from the build
- Managing unique code lines and versions
- Knowing why and when to branch and use variants

Specifying the product release process

- 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

Schedule

Location Dates Status

Tuition

IN CLASSROOM OR ONLINE PRIVATE TEAM TRAINING

STANDARD   **$3895**

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