Course Outline:

Software Change, Configuration and Release Management *(Course T342)*

**What is this course about?**
Software configuration management (SCM) is a process for facilitating and controlling changes to software products within an organization. This course covers configuration activities such as: configuration planning, change control and management, system building, and version and release management. You learn how the application core processes of SCM contribute to the success of a software project. A software and hardware prototype is used in the case study throughout the course, allowing the concepts of SCM to be applied during workshops and activities.

**Who should attend?**
Configuration and release management professionals new to their position, software developers, hardware engineers, testers, project managers and anyone needing a solid foundation in monitoring and controlling a product during the development life cycle.

The course is valuable for:
- Software development and maintenance personnel coding or designing systems
- Systems administrators and those leading software-intensive activities such as business analysts, project leaders and configuration managers
- Anyone involved with software development, integration, maintenance, operations, testing, quality assurance or process improvement.

This course is relevant for all types of programming teams. This course is beneficial to one-person teams as well as teams with large co-located groups or geographically dispersed groups. The course approaches the software development life cycle by considering phases in development, not by aligning with one approach or another. SCM applies at the SDLC phase, regardless of the type, size, language, or budget of a programming project.

No particular programming language or specific software expertise is assumed. Familiarity with a software development life cycle is helpful.

**Duration:**
3 Days

**This course qualifies for:**
1.8 CEUs
17 NASBA CPEs

**Chapter 1: The Software Configuration Management Environment**
- Goals and Processes of SCM
- Organizations and Projects
- Introductions to the Case Study
• The SCM Plan
• Best Practices

Chapter 2: CSA and the Configuration Library
• SCM in the Development Life Cycle
• SCM Library
• Configuration Status Accounting
• Best Practices

Chapter 3: Configuration Identification
• Candidate Configuration Items
• Bringing Work Products Under Configuration Management Control
• Baselines
• Best Practices

Chapter 4: Configuration Control
• Managing Change
• Planning for Change
• Processing a Change
• External Change
• Best Practices

Chapter 5: Configuration Audits
• SCM Audits
• Baseline Audits
• Release Audits
• Best Practices

Chapter 6: Build Management
• The Build Process
• Keeping Track of All That Code
• Best Practices

Chapter 7: Release Management
• Release Strategies
• The Release Process
• Documenting a Release
• Best Practices

Chapter 8: Implementing SCM in Your Organization
• The Software Tool Horizon
• Analyzing and SCM Plan
• Be Prepared for the Excuses
• Best Practices

Chapter 9: Course Summary