

Geraardsbergsesteenweg 117A
9860 Oosterzele
Belgium

+32 478 288375
pieter.ghneysens@sparkles.be
www.sparkles.be



Application Lifecycle Management **with Visual Studio 2010**

December 5-7, 2011
Belgium (TBD)



Overview

This intensive 3 day training will give you a detailed overview of the **Application Lifecycle Management (ALM) features** that are included inside the **release of Visual Studio 2010**. The latest release of Visual Studio (release in April 2010) has become a true platform for productive, integrated, and extensible software development lifecycle tools that helps software teams by improving communication and collaboration throughout the software development process. With the new licensing model and the Team Foundation Server 2010 Basic Installation, small development team will also benefit greatly from the integrated team development experience: Version Control, Work Item Management and Build Automation. Larger enterprises may also need to use the advanced reporting and collaboration features of Team Foundation Server 2010, based on SQL Reporting Services and Windows SharePoint Services (WSS) or Microsoft Office SharePoint Server (MOSS) 2010.

Releasing software applications into a production environment isn't anymore all about writing code, but much more. A lot of different stakeholders (business analyst, architect, developer, tester, database administrator, IT professional, ...) are now closely involved in the software development process and need integrated tools to collaborate. Today, much of application development remains isolated throughout the enterprise, leading to decreased productivity and lengthy product development cycles. With Visual Studio 2010 and Team Foundation Server 2010, Microsoft is taking the next step forward in giving individuals and development organizations an advanced solution that enables them to integrate effectively and build and deliver high-quality applications. This includes new capabilities that make it easier for all contributors on the software team to participate throughout the lifecycle — from the core developers and testers to the wider team of project managers, designers and business analysts.

This course will deepen your knowledge about the possibilities of the ALM offering from Microsoft with Visual Studio 2010. From getting a grip on best practices to use Version Control with Team Foundation Server to realizing the full potential of an automated build-deploy-test cycle with Visual Studio Lab Management 2010. Take your chance to get up-to-speed with the greatest tooling to support the software development process.



Format

The training is a mix of theory and practical implementation, based on best practices and personal experiences of the teacher. The attendees will also need to perform some hands-on exercises to get familiar with the product suite.

Target Audience

Any stakeholder in the software development process will benefit from the training. Some exposure to the basics of software development concepts is helpful.

Date & Location

December 5-7, 2011 (3 days)
Belgium (TBD)



Teacher

Pieter Gheysens is the founder of Sparkles (www.sparkles.be) and focuses as a Visual Studio ALM MVP and Certified Scrum Master on Application Lifecycle Management solutions for the Microsoft .NET Development Platform based on Team Foundation Server. During the last 10 years, Pieter has been involved in many large enterprise development projects as a developer, team lead and software architect. He's passionate about setting up the optimal team development environment to deliver high quality software and strives to get the best out of people, tools and processes. You can read about his experiences at intovsts.net.

Since a few years now, Pieter is the User Group Lead for the Belgian Visual Studio User Group (www.visug.be) which organizes many free technical community events with local and international speakers.

Latest public sessions:

- Microsoft Techdays 2011: [The automated build-deploy-test cycle with Visual Studio Lab Management 2010](#).
- Microsoft Techdays 2010: [Branching & Merging with Team Foundation Server 2010](#)



Price

The cost for this 3 day Training Class is **1200,- euro** (taxes not included). This price includes your participation to the training, coffee/tea, lunch and the printed materials presented during the training.

This training may also be organized on-site. The cost for this 3 day on-site Training Class is **3500,- euro** (taxes not included) for a group of maximum 10 people.



Outline ALM with Visual Studio 2010

Introduction to Application Lifecycle Management

Team Foundation Server 2010 Architecture & Administration

- The Big Picture
- Project Collections
- Build Controllers and Build Agents
- SharePoint Team Portal based on WSS or MOSS
- SQL Server Reporting Services
- SQL Server Analysis Services
- Team Foundation Administration Console

Team Foundation Server 2010 Product Features + Licensing

- Version Control
- Work Item Tracking
- Build Automation
- Team Portal
- Reporting & Business Intelligence
- Agile Planning Workbook
- Test Case Management
- Team Explorer 2010
- Team Foundation Server Power Tools
- Team System Web Access 2010

Advanced Version Control with Team Foundation Server 2010

- Workspaces
- Version Control Structure
- Branching & Merging
- Branching Visualization
- Track Changesets across branches
- Full Traceability
- Conflict Resolution
- Software Configuration Management
- Shelving
- Fine-grained security
- Check-in policies
- Annotations
- Rollback



Process Templates for Team Foundation Server 2010

- MSF Agile v5
- MSF CMMI v5
- Conchango Scrum for Team System 3.0
- Visual Studio Scrum 1.0
- Customization of process templates

Work Item Management in Team Foundation Server 2010

- Hierarchical Work Items
- Work item queries
- Custom link types and link queries
- Links control
- Field Comparison queries
- Group Membership Queries
- Query Folders
- Work Item tracking categories
- Using Microsoft Excel or Microsoft Project for Work Item Management

Build Automation in Team Foundation Server 2010

- Build Controllers
- Build Agents + Build Agent tags
- Build Deletion Configuration
- Team Build based on Windows Workflow 4.0
- Build process templates
- Build Summary and log reports
- Gated Check-in
- Build Retention Policies
- Build Notification
- Build Parameters
- Source Server Indexing
- Symbol Server Integration

Integration of (automated) testing into the development lifecycle

- Microsoft Test and Lab Manager
- Requirements Management
- Test Case Management
- Test Impact Analysis
- Test Planning
- Test Configurations
- Coded UI Tests



- Manual Testing
- IntelliTrace

Integration of Database development into the development lifecycle

- Schema Compare
- Data Compare
- Deployment scenarios
- Database testing
- Test Data Generation

Architecture tooling in Visual Studio 2010

- UML Modeling
- Architecture Explorer
- DGML Graphs
- Layered Diagram

Powerful reporting with Team Foundation Server 2010

- SQL Server Reporting Services
- SQL Server Analysis Services
- Excel workbooks
- Team Project Dashboards using WSS or MOSS 2010

Visual Studio Lab Management 2010

- Connecting TFS with Visual Studio Lab Management
- Hyper-V host machine + System Center Virtual Machine Manager
- Setting up virtual environments for Lab Management
- Storing virtual environments inside the Lab Management Library
- The automated build-deploy-test cycle with Visual Studio Lab Management