Application Lifecycle Management with Visual Studio and Team Foundation Server / Visual Studio Team Services

February 21-23, 2017
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 latest releases of Visual Studio and Team Foundation Server. The latest release of Visual Studio is 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. Any team (small or big) will benefit from the integrated team development experience: Version Control, Work Item Management, Test Case Management, Build Automation and Release Management (DevOps). Larger enterprises may also need to use the advanced reporting and collaboration features of Team Foundation Server, based on SQL Reporting Services and Windows SharePoint Services (WSS) or Microsoft Office SharePoint Server (MOSS).

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 and Team Foundation Server, 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, release managers, designers, business analysts and the operations team.

This course will deepen your knowledge about the possibilities of the ALM offering from Microsoft with Visual Studio and Team Foundation Server. The training also covers the opportunities which are offered with Visual Studio Team Services (aka “TFS in the cloud”). From getting a grip on best practices to use Version Control with Team Foundation Server (TFVC or Git) to realizing the full potential of an automated build-deploy-test cycle using Visual Studio Release Management. Take your chance to get up-to-speed with the greatest tooling to support your software development process and adopt best practices.
Overview of ALM with Team Foundation Server

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 hands-on exercises to get familiar with the complete Visual Studio product suite. Every attendee will get a dedicated Windows Azure Virtual Machine to exercise to perform scripted exercises.

Target Audience

Any stakeholder (developer, tester, release manager, project manager) in the software development process will benefit from the training. Some exposure to the basics of software development concepts is helpful.
Date & Location
February 21-23, 2017 (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 15 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 intoalm.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. Together with 2 other colleagues, Pieter founded Techorama, an international developer conference, organized in Belgium.

Latest public recorded sessions:

- Microsoft Techdays 2013: Building and Testing Windows 8 Apps with Team Foundation Service and Microsoft Test Manager.
- Microsoft Techdays 2010: Branching & Merging with Team Foundation Server 2010
**Price**

The cost for this 3 day Training Class is **1300,- euro** (taxes not included). This price includes your participation to the training, coffee/tea, lunch and the printed materials presented during the training. Signing up for one or more individual day(s) is possible and is priced at **500,- euro / day**.

This training may also be organized on-site at your facilities and may be customized to fit the needs of a specific development team. Please contact Sparkles for more details.
Outline ALM with Visual Studio and Team Foundation Server

Day 1

- Introduction to the new Visual Studio Product Family
- Application Lifecycle Management
- The Benefits of Visual Studio and Team Foundation Server
- Rolling out TFS in your organization – TFS Architecture and topologies
- A guide for TFS Administrators
- Gathering User Requirements through Storyboarding
- Agile Project Management inside Team Foundation Server
- Continuous Feedback mechanisms inside Team Foundation Server
- What about Visual Studio Team Services (“TFS in the Cloud”)?

Day 2

- Version Control improvements (workspaces, merging, diff, Git support …)
- Built-In Code Review activities
- Task-oriented programming
- Increased Developer Productivity
- Cross-technology Application Lifecycle Management
- Customizing build process templates
- Introduction to the new cross-platform TFS Build System
- Build & Symbol Management in TFS
- Digging into the TFS API
- Extending TFS

Day 3

- From Agile Testing to Continuous Testing
- Exploratory Testing with MTM
- Web Test Case Management and Web Test Execution
- Test Impact Analysis
- IntelliTrace for production environments
- Microsoft Monitoring Agent
- DevOps collaboration
- Environment Provisioning Techniques (ARM Templates / Powershell DSC)
- Visual Studio Lab Management
- Integration with System Center Operations Manager (SCOM)
- Visual Studio Release Management
- Reporting / Analytics: transform data to information!
- Introduction to Application Insights