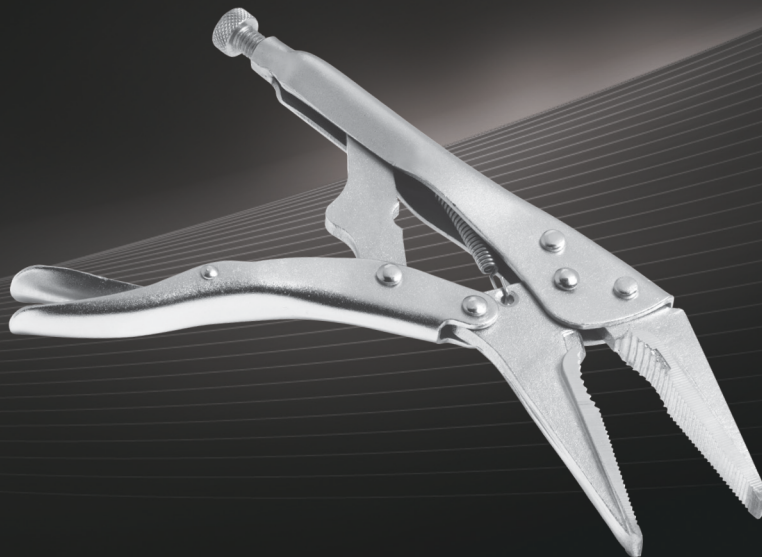


Professional Scrum Development with Microsoft® Visual Studio® 2012



Richard Hundhausen

Praise for this book

"Richard provides real Scrum guidance for real teams. If you're a Scrum team using Visual Studio, this book is a great resource."

—Aaron Bjork, *Principal Group Program Manager, Team Foundation Server, Microsoft*

"Richard successfully marries the best tools for .NET developers to the most effective practices without sacrificing the people."

—David Starr, *Senior Program Manager, Visual Studio, Microsoft*

"Finally, a book about Scrum from the Development Team's point of view; Richard's description of the best and worst ways to implement Scrum is priceless. The first chapter alone is one of the best descriptions of 'Scrum done well' that I've ever seen."

—Charles Bradley, *Scrum Coach & Professional Scrum Master*

"The very first book on Team Foundation Server that I read was written by Richard, and he's done it again this time with another fantastic read."

—Brian Keller, *Principal Technical Evangelist for Microsoft Visual Studio*

"Richard does a fantastic job of blending theory, practice, and tools in one easy to read book! This book will surely be a staple for many of our Scrum coaching engagements."

—Chad Albrecht, *VP Centare, PST*

"As an encore to helping introduce the industry shaking Professional Scrum Developer program, Richard reminds us in this book why he's a leading voice in Scrum and Visual Studio ALM."

—Ryan Cromwell, *Professional Scrum Trainer, MVP*

"I've known Richard a long time and it's been great to follow his progression towards becoming a Scrum 'white robe.' I'm so happy the community now has the ultimate resource on understanding the marriage of Scrum and TFS."

—Adam Cogan, *Microsoft Regional Director, Visual Studio ALM MVP [of the year 2011]*

Professional Scrum Development with Microsoft Visual Studio 2012

Table of Contents

Cover Page

Praise for this book Page

Title Page

 Copyright Page

Dedication

Contents at a Glance Page

Contents

Foreword

Introduction

 Who should read this book

 Who should not read this book

 Organization of this book

 Finding your best starting point in this book

 Conventions and features in this book

 Code samples

 Installing and using the Scrum Robot

 Acknowledgments

 Errata & book support

 We want to hear from you

 Stay in touch

Part I: Fundamentals

Table of Contents

Chapter 1: Scrumdamentals

The Scrum Guide

Scrum in action

Scrum roles

Scrum events

Scrum artifacts

Definition of Done

The professional Scrum developer

Chapter burndown

Chapter 2: Microsoft Visual Studio 2012 ALM

Delivering continuous value

Visual Studio 2012

Editions

Team Foundation Server

Team Foundation Service

Visual Studio Team Explorer Everywhere 2012

MSDN subscriptions

Chapter burndown

Chapter 3: Microsoft Visual Studio Scrum 2.0

Dissecting the process template

MSF process templates

Exploring a process template

Visual Studio Scrum 2.0

Whats new and different

Work item types

Work item queries

Reports

Common customizations

Chapter burndown

Part II: Using Scrum

Chapter 4: The pre-game

Table of Contents

Setting up the development environment

- Team Foundation Server: Buy vs. build
- Create a team project collection
- Configure Team Foundation Build
- Configure Lab Management

Setting up product development

- Create a team project
- Source control
- Automated builds
- Project portal
- Reports
- Security groups
- Teams

Chapter burndown

Chapter 5: The Product Backlog

Creating the Product Backlog

- Team Web Access
- Using the quick add experience
- Handling epic PBIs
- Importing existing PBIs
- Reporting a bug
- Effective Product Backlog creation

Grooming the Product Backlog

- Specifying acceptance criteria
- Estimating items in the Product Backlog
- Tracking estimates in the Product Backlog
- Ordering the Product Backlog

Planning a release

- Time-driven vs. feature-driven releases
- Controlling and prioritizing scope
- Using Velocity to estimate
- Release Burndown report

Table of Contents

Chapter burndown

Chapter 6: The Sprint

Creating the Sprint Backlog

Forecasting the PBIs

Capturing the Sprint Goal

Creating the plan

Daily Scrum activities

The Daily Scrum

Taking on work

The task board

Chapter burndown

Chapter 7: Acceptance test-driven development

Keep the conversation going

Collaborative specifications

Executable specifications

Acceptance test-driven development

Test-driven development

Automated acceptance testing

Creating a test case

Associating an automated test

Executing automated acceptance tests

Reusing test cases

Other acceptance-testing frameworks

Acceptance

Chapter burndown

Chapter 8: Effective collaboration

Individuals and interactions over processes and tools

Listen actively

Collocate

Set up a team room

Meet effectively

Table of Contents

Collaborate productively

Achieve continuous feedback

Collaborative development practices

Collective code ownership

Commenting in code

Code reviews

Collaborative development tools

Team Foundation Server

Continuous integration

Gated check-in builds

Email alerts

Shelving

My Work

PowerPoint Storyboarding

Feedback client

Code reviews

Chapter burndown

Part III: Improving

Chapter 9: Continuous improvement

Common challenges

Bugs

Impediments

Estimation

Assessing progress

Renegotiating scope

Undone work

Spikes

Fixed-Price contracts and Scrum

Common dysfunctions

Not getting done

Flaccid Scrum

Not inspecting, not adapting

Table of Contents

Development Team challenges
Working with a challenging Product Owner
Working with challenging stakeholders
Working with a challenging Scrum Master
Changing Scrum

Improving

Get a coach
Build a cross-functional team
Achieve self-organization
Improve transparency
Swarm
Use a Kanban board to limit WIP
Professional Scrum Developer training
Assess your knowledge
Become a high-performance Scrum Development Team

Chapter burndown

Appendix Page

Index Page

About the author

Survey Page