The AddisonWesley Signature Series

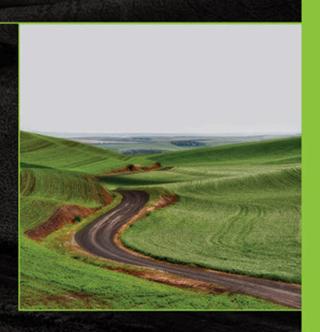


THE SCRUM FIELD GUIDE

AGILE ADVICE FOR YOUR FIRST YEAR AND BEYOND

SECOND EDITION

MITCH LACEY



Forewords by Jeff Sutherland and Kenneth S. Rubin

THE SCRUM FIELD GUIDE

SECOND EDITION

Scrum Field Guide, The: Agile Advice for Your First Year and Beyond

Table of Contents

Cover Contents Foreword by Jeff Sutherland Foreword by Kenneth S. Rubin **Preface** Acknowledgments About the Author Chapter 1 Scrum: Simple, Not Easy The Story Scrum What Is Scrum? Implementing Scrum When Is Scrum Right for Me? Change Is Hard Keys to Success References PART I: GETTING PREPARED Chapter 2 Getting People on Board The Story The Model Change Takes Time Establish a Sense of Urgency



Form a Powerful Guiding Coalition

Create a Vision/Paint a Picture of the Future

Communicate the Vision

Empower Others to Act on the Vision

Plan for and Create Short-Term Wins

Consolidate Improvements

Institutionalize New Approaches

Keys to Success

Be Patient

Provide Information

References

Work Consulted

Chapter 3 Using Team Consultants to Optimize Team Performance

The Story

The Model

Establishing a Team Consultant Pool

Building Your Team

Keys to Success

Accountability

Experiment

Be Cautious of Overloading

Plan for Potential Downtime

Team Consultants Are Not a Replacement for Dedicated Teams

Reference

Works Consulted

Chapter 4 Predicting Team Velocity

The Story

The Model

The Problem with Historical Data

Shedding Light on Blind Estimation

Wait and See (Use Real Data)

Truncated Data Collection



Keys to Success

References

Chapter 5 Implementing the Scrum Roles

The Story

The Model

Choosing Roles

Mixing Roles

When, Not If, You Decide to Mix Roles Anyway

Keys to Success

Chapter 6 Determining Sprint Length

The Story

The Model

Project Duration

Product Owner and Stakeholders

Scrum Team

Determining Your Sprint Length

Be Warned

Beyond the Quiz

Keys to Success

Sprints Longer than One Month

Extending Sprint Length

Reference

Chapter 7 How Do You Know Youre Done?

The Story

The Model

Introduction

Brainstorming

Categorization

Sorting and Consolidation

Creation and Publishing

What about Undone Work?



Keys to Success

References

Chapter 8 The Case for a Full-Time ScrumMaster

The Story

The Model

Keys to Success

Remove Impediments/Resolve Problems

Break Up Fights/Act as Team Mom

Report Team Data

Facilitate and Help Out Where Needed

Educate the Organization and Drive Organizational Change

In Summary

References

Work Consulted

PART II: FIELD BASICS

Chapter 9 Why Engineering Practices Are Important in Scrum

The Story

The Practices

Implementing Test-Driven Development

Refactoring

Continuous Integration and More Frequent Check-Ins

Pair Programming

Automated Integration and Acceptance Tests

Keys to Success

Not a Silver Bullet

Starting Out

Get the Team to Buy In

Definition of Done

Build Engineering into Product Backlog

Get Training/Coaching

Putting It Together



References

Works Consulted

Chapter 10 Core Hours

The Story

The Model

Colocated Teams

Distributed and Part-Time Teams

Keys to Success

Chapter 11 Release Planning

The Story

The Model

Sketch a Preliminary Release Plan

Consider Degree of Confidence

Maintaining the Release Plan throughout the Project

Project Cost

Determining the End Game

Keys to Success

Communicate Up Front and Often

Update the Release Plan after Every Sprint

Try to Do the Highest-Priority Items First

Refine Estimates on Bigger Items

Deliver Working Software

Reference

Chapter 12 Decomposing Stories and Tasks

The Story

The Model

Setting the Stage

Story Decomposition

Task Decomposition

Keys to Success

References



Works Consulted

Chapter 13 Keeping Defects in Check

The Story

The Model

Keys to Success

Additional Information

References

Work Consulted

Chapter 14 Sustained Engineering and Scrum

The Story

The Model

Dedicated Time Model

Data Gathered over Time

Dedicated Team Model

Keys to Success

Cycle Dedicated Maintenance Team Members

Retrofit Legacy Code with Good Engineering Practices

In the End

References

Chapter 15 The Sprint Review

The Story

The Model

Preparing for the Meeting

Running the Meeting

Keys to Success

Take Time to Plan

Document Decisions

Ask for Acceptance

Be Brave

Works Consulted

Chapter 16 Retrospectives



The Story

The Practice

Give Retrospectives Their Due Diligence

Plan an Effective Retrospective

Run the Retrospective

Keys to Success

Show Them the Why

Build a Good Environment

Hold Them When You Need Them

Treat Retrospectives Like the First-Class Citizens They Are

References

PART III: FIRST AID

Chapter 17 Facilitating a Productive Daily Scrum

The Story

The Model

Time of Day

Start and End on Time

Expose Hidden Impediments

End with the Beginning in Mind

Keys to Success

Keep the Meeting Cadence

StandDont Sit

Work as a Team

Be Patient

Chapter 18 The Fourth Question in Scrum

The Story

The Model

Keys to Success

Reference

Chapter 19 Keeping People Engaged with Pair Programming

The Story



The Model

Promiscuous Pairing

Micro-Pairing

Keys to Success

References

Chapter 20 Adding New Team Members

The Story

The Model

The Exercise

Keys to Success

Accept the Drop in Velocity

Choose Wisely

Risky Business

References

Chapter 21 When Cultures Collide

The Story

The Model

Keys to Success

Control Your Own Destiny

Work with What You Have

Stay the Course

References

Works Consulted

Chapter 22 Sprint Emergency Procedures

The Story

The Model

Remove Impediments

Get Help

Reduce Scope

Cancel the Sprint

Keys to Success



References

PART IV: ADVANCED SURVIVAL TECHNIQUES

Chapter 23 Sustainable Pace

The Story

The Model

Shorten Iterations

Monitor Burndown Charts

Increase Team Time

Keys to Success

References

Chapter 24 Delivering Working Software

The Story

The Model

Core Story

Number of Users

Start with the Highest Risk Element

Expand and Validate

Keys to Success

Change in Thinking

Rework

Focus on End-to-End Scenarios

Work Consulted

Chapter 25 Optimizing and Measuring Value

The Story

The Model

Stories

Taxes

Spikes

Technical Debt

Other Potential Categories

Structuring the Data



Using the Data

Keys to Success

Educate Stakeholders

Work with Stakeholders

Determine Trends and Patterns

Reference

Works Consulted

Chapter 26 Up-Front Project Costing

The Story

The Model

Functional Specifications

User Stories

Estimating Stories

Prioritizing Stories

Determining Velocity

Deriving Cost

Build the Release Plan

Keys to Success

References

Chapter 27 Documentation in Scrum Projects

The Story

The Model

Why Do We Document?

What Do We Document?

When and How Do We Document?

Documenting in an Agile Project

Starting Projects without Extensive Documentation

Keys to Success

References

Chapter 28 Outsourcing and Offshoring

The Story



The Model

Consider the True Costs

Dealing with Reality

Keys to Success

Choose the Right Offshore Team

Allocate the Work in the Least Painful Way

Stick with the Scrum Framework

Build a One-Team Culture

Be Prepared to Travel

Have a Project/Team Coordinator

Never Offshore When . . .

References

Work Consulted

Chapter 29 Prioritizing and Estimating Large BacklogsThe Big Wall

The Story

The Model

Team

Stakeholders

Keys to Success

Preplanning Is Essential

Focus Discussions and Set Time Limits

Use a Parking Lot for Unresolvable Disagreements

Bring Extra Cards/Paper for Stories Created in the Room

The Big Wall with Remote/Distributed Teams

Remind Everyone That Things Will Change

References

Chapter 30 Writing Contracts

The Story

The Model

Traditional Contracts and Change Orders

Timing

Ranges and Changes



Keys to Success

Customer Availability

Acceptance Window

Prioritization

Termination Clauses

Trust

References

PART V: WILDERNESS ESSENTIALS

Chapter 31 Driving to Done through Collaboration

The Story

The Model

Task Poker

Pair Programming

Limit Open Work Items

Two-Week Sprints

Creating Visibility with a Task Board

Keys to Success

Each Voice Is Heard

Shared Understanding of the Work

Every Team Member Is Invested in the Outcome

Dont Average Task Estimates

Avoid Excessively Granular Task Estimates

Scrum Is Built on Teamwork

References

Chapter 32 How Story Points Relate to Hours

The Story

The Model

Fear Factor

Wide Ranges

Its How, Not How Long

Keys to Success



Collecting the Right Data

Using Data to Make Improvements

REFLECT on Story Points

References

Chapter 33 Immersive Interviewing and Hiring

The Story

The Model

Forecast

Hire for the Right Reasons

Cost of a Bad Hire

Skills, Competencies, or Both

How to Hire

Candidate Screening

Keys to Success

Build a Repeatable Hiring Process

Focus on Competencies, Not on Questions

Skills Are Easy to Learn, Competencies Are Not

Find People Stronger than You

Understand the Costs and Invest Heavily

References

Work Consulted

Chapter 34 Aligning Incentives with Outcomes

The Story

The Model

Set the Focus

Align around Customer Satisfaction

Prioritize and Shift

Side Benefits

Keys to Success

Integrate Sales and Development

Stop Sacrificing People and Quality: Have a Prioritized Project Portfolio

Add Dedicated Teams, Not Random People



Organization-wide Coordination

Executive Support

Reference

Chapter 35 Risk Management in Scrum

The Story

The Model

Customer Risk: Product Owner

Social Risk: ScrumMaster

Technical Risk: Development (Core) Team

In the End

Keys to Success

Let Go

Let Agile

Works Consulted

Appendix: Scrum Framework

The Roles

ScrumMaster

Product Owner

Development Team

The Artifacts

The Product Backlog

The Sprint Backlog

The Burndown

The Meetings

Planning Meeting

Daily Scrum

Sprint Review

Sprint Retrospective

Putting It All Together

Index



