

Managing Agile Projects with Scrum and Lean (3 Days)

Overview

This course takes a deeper dive into project management tactics and allows for extended hands-on lab time. After a one-day overview of Scrum and a brief synopsis of Lean, students will have an opportunity to practice what they've learned with two days of intensive lab work.

Learning Objectives

- Provide a refresher on the origins and basics of Scrum and Agile
- Present a detailed explanation of the key Scrum "artifacts"
- Grasp the Scrum Master's role in-depth
- Understand Lean principles and how to apply them with Scrum
- In-depth understanding of Scrum practices through experiential exercise

Prerequisites

No experience needed, this course can fit any skill level.

Course Outline

Agile Overview

The Agile Potential The Agile Manifesto Agile alone is NOT enough Can Agile fail? THE Best Agile

SCRUM Overview

Roles and Responsibilities How It Works Artifacts Rules of Scrum Definition of Done

Lean Practices Specific to Software Projects

Lean Principles Value Stream Mapping Set Management – Backlog, Throughput, Expenses Kanbans and Queues Smaller Batches Penny Lab WIP Limits – Airplane Lab Goals and Measurements Leveraging Lean Principles in Scrum Lab

Product Owner Roles and Responsibilities

Will the Real Product Owner Please Stand Up? Product Backlog and Requirements Roles and Personas Spikes and Special Stories

Guiding the Self-Managing Team

Leadership versus Management Agile Leader's Role Leadership Lab Servant Leadership Changing Culture and Behavior Motivating Knowledge Workers Small Changes, Knowing When to Act Force Field Analysis Lab Encouraging Agile behavior versus slowing adoption

Agile Planning

Agile Planning Concept and Terms Business Case and Value Analysis The Project Charter Customer Value Prioritization Minimally Marketable Feature/Minimal Viable Product

Product Backlog

Defining the Product Backlog User Stories – Business Functionality Prioritizing the Backlog Creating a Product Backlog Lab *Class will intermittently revisit this lab*

Agile Estimation

Stories and Sizing Relative Sizing Wideband Delphi Planning Poker Affinity Estimating Team Estimation Method Agile Estimation Lab

Release Planning

Release Planning Inputs and Outputs Velocity-Driven Release Planning Fixed Schedule Release Planning Release Planning for Course Project Lab

Metrics and Measuring Progress

Planning as You Go Reviewing Information Radiators Velocity and Measuring Progress Scrum Metrics Lean Metrics Even Easier Metrics Metrics Lab Watching The Horizon

Sprints

Sprint Planning Sprint Activities Sprint Review Sprint Retrospective Sprint Planning and Execution Lab Sprint Review Lab Sprint Retrospective Lab

Final Review and Next Steps