

**Agile Project Estimation**

**Course Number:** AGL-144
**Duration:** 2 days

**Overview**

Accelebrate's Agile Project Estimation training course teaches students how to estimate the timing of Agile project deliverables. Attendees learn how to ensure that the maximum business value is delivered to the Product Owner.

**Prerequisites**

By default, this course presumes prior exposure to Agile software development. However, we would be delighted to tailor it to any level of prior experience.

**Materials**

All attendees receive comprehensive courseware.

**Software Needed on Each Student PC**

For in-person deliveries, attendees do not need computers for this course. We will provide full classroom setup instructions that will include seating in small groups, with supplies such as flipcharts, sticky notes, markers, and pens for the attendees and a projector and Internet connection for the instructor's laptop.

Online deliveries for this interactive training will use an online meeting platform (such as Zoom, WebEx, GoTo, or Teams) to have face-to-face contact online, including use of breakout rooms for group activities.

**Objectives**

* Decompose scope to manageable pieces for teams to consume during a sprint
* Understand relative sizing and how it's used
* Develop estimates for a project
* Interpret Agile reporting

**Outline**

* Introduction
* Agile Estimation
	+ Agile Means Discipline
	+ The Agile Microscope
	+ People versus Formulas
* Why Plans Fail
	+ Top reasons Software Planning Fails
	+ What makes a plan an Agile plan?
* Managing Requirements
	+ Decomposing Scope
	+ Developing the Release Plan
		- Leveraging Themes
	+ INVEST-ing in Good Stories
	+ The Hidden Waterfall
	+ Metrics for Grooming and Managing the Product Backlog
	+ Story Metrics and the Story Scale
	+ Using Spikes & 'Get Smart' Stories
* Relative Sizing Metrics
	+ Understanding Relative Sizing & Why It Works
	+ Relative Sizing Techniques
		- Story Points, Ideal Days and Other Variables
		- Sizing with Planning Poker
		- Constraints on Relative Sizing
	+ Team Velocity Calculations
	+ Consequences of Not Using Relative Measurement
	+ Key Business Metrics
		- Business Value Metrics
		- Prioritizing / Sequencing Using Relative ROI
	+ Making Corrections
		- Dealing with Inaccurate Estimates
		- Dealing with Missed Iteration Goals
		- Dealing with New / Changed Requirements
		- Tracking Historical Trends
* Doing Scrum In A Big Way
	+ Team Metrics
	+ How Many Teams?
	+ How Many Product Backlogs
* Forecasting
	+ Forecasting Without Any History
	+ Forecasting Using Historical Data
	+ To Buffer or Not to Buffer
	+ Ensuring Quality
		- What to Measure and When
		- Refactoring Formalized and Measured
		- Measuring TDD and ATTD
	+ Forecasting based on estimates
	+ Forecast fine-tuning based on facts
* Conclusion