

Agile at Scale (AES)

Course Title:

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Course Description:

Instructor-led course covering the learning objectives required to achieve an elective level of Agile knowledge.

Course Abstract:

In this instructor-led course – which utilizes a “learn by doing” format that combines self-study, mentorship, training, and coaching – students will learn, practice, and develop the skills necessary to achieve an elective level of Agile knowledge.

Duration:

8 Modules

Prerequisite:

Agile Foundations (AF)

Level:

Elective

Assessment:

Knowledge

Recommended Text:

[Scaling Lean & Agile Development: Thinking and Organizational Tools for Large-Scale Scrum](#)

Course Structure:

- Module 1: Introduction
 - Learning Objectives:
 - Introduction of course instructor
 - Introduction of agenda and course format
 - Introduction of classmates and experience levels
 - Introduction of test-first approaches
 - Handouts: None
 - Videos: None
 - Activities: Introduce Yourself, Rate Your Experience Level
 - Assignment: Read [Scaling Lean & Agile Development - Chapter 1](#)
 - Action: Consider how to apply Lean Thinking concepts to the work your team is doing
- Module 2: Scrum Review
 - Learning Objectives:
 - Ensure you're following Scrum before you attempt to scale it, otherwise you'll just be scaling your problems
 - Handouts: None
 - Videos: None
 - Activities: Jeopardy-Style Scrum Review
 - Assignment: Read [Scaling Lean & Agile Development - Chapter 2 \(Systems Thinking\)](#)
 - Action: Consider why empirical process control matters, and how that applies to complex systems
- Module 3: Systems Thinking
 - Learning Objectives:
 - How to define a system optimizing goal
 - The potential impact of local optimization
 - Why we should focus on idle work rather than idle workers
 - The impact of queues on cycle time
 - The goal based on the theory of constraints
 - How to see the system
 - Key concepts in systems thinking
 - How to imagine a better system through idealized design
 - Handouts: The Goal
 - Videos: [Dipstick Studio - Systems Thinking in Healthcare](#)
 - Activities: None
 - Assignment: Read [Scaling Lean & Agile Development - Chapter 3 \(Lean Thinking\)](#)
 - Action: Consider how to apply Lean Thinking concepts to the work your team is doing
- Module 4: Systems Modeling - Puzzle 1
 - Learning Objectives:
 - Leadership needs to agree on the system optimizing goal
 - Handouts: None
 - Videos: [Ionica Smeets - Causality and Correlation](#), [Tom Wujec - Wicked Problem Solving](#)
 - Activities: Causal Loops Diagrams - Clean Code Exercise
 - Assignment: Read [Scaling Lean & Agile Development - Chapter 4 \(Queueing Theory\)](#)
 - Action: Facilitate creating a value stream map with your Scrum Team, and identify ways to eliminate hidden queues
- Module 5: Systems Modeling - Puzzle 2
 - Learning Objectives:

- Organizational design elements should be consistent with the system optimizing goal
 - Handouts: None
 - Videos: None
 - Activities: Causal Loops Diagrams - SOG Exercise
 - Assignment: Read [Scaling Lean & Agile Development - Chapter 5 \(False Dichotomies\)](#)
 - Action: Facilitate a Systems Modeling exercise with your team using Causal Loops Diagrams
- Module 6: Large-Scale Scrum
 - Learning Objectives:
 - Why LeSS
 - How LeSS is a Scrum-based approach to scaling
 - The impact of LeSS on the organizational design
 - The differences between component teams and feature teams
 - The LeSS roles
 - The definition of Fake Product Owners and why LeSS avoids them
 - The LeSS Complete Diagram, including principles, rules, guides, and experiments
 - How LeSS Huge was designed to scale over ~8 teams
 - Where to find additional LeSS resources
 - Handouts: LeSS Principles
 - Videos: [Introduction to Large-Scale Scrum](#)
 - Activities: None
 - Assignment: Read [Scaling Lean & Agile Development - Chapter 6 \(Be Agile\)](#)
 - Action: Consider false dichotomies you may have held at one time, and how you can use that insight to help others transition
- Module 7: Feature Team Adoption Map
 - Learning Objectives:
 - How to create a Feature Team Adoption Map
 - Handouts: None
 - Videos: None
 - Activities: Create a feature team adoption map for your team
 - Assignment: Read [Scaling Lean & Agile Development - Chapter 7 \(Feature Teams\), 8 \(Teams\)](#)
 - Action: Consider the design of your organization. Is it ideal? What would you change?
- Module 8: Wrap-Up
 - Learning Objectives:
 - LeSS review
 - Handouts: None
 - Videos: None
 - Activities: None
 - Assignment: Read [Scaling Lean & Agile Development - Chapter 9 \(Requirement Areas\), 10 \(Organization\), 11 \(Large-Scale Scrum\)](#)
 - Action: None