SAFe[®] Advanced Scrum Master

Advancing Scrum Master Servant Leadership with SAFe

SAFe[®] Course – Attending this course gives students access to the SAFe Advanced Scrum Master exam and related preparation materials.



5.1



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Course	Description	Certification
Leading SAFe"	Thriving in the Digital Age with Business Agility	with SAFe® 5 Agilist Certification
Implementing SAFe*	Achieving Business Agility with the Scaled Agile Framework	with SAFe* 5 Program Consultant Certification
SAFe* for Government	Applying Lean-Agile Practices in the Public Sector with SAFe^ ${\ensuremath{\mathfrak{S}}}$	with SAFe® 5 Government Practitioner Certification
Lean Portfolio Management	Aligning Strategy with Execution	with SAFe® 5 Lean Portfolio Manager Certification
SAFe [®] Product Owner/Product Manager	Delivering Value through Effective Program Increment Execution	with SAFe® 5 Product Owner/Product Manager Certification
Agile Product Management	Using Design Thinking to Create Valuable Products in the Lean Enterprise	with SAFe® 5 Agile Product Manager Certification
SAFe* Scrum Master	Applying the Scrum Master Role within a SAFe $^{\circledast}$ Enterprise	with SAFe® 5 Scrum Master Certification
SAFe* Advanced Scrum Master	Advancing Scrum Master Servant Leadership with SAFe®	with SAFe® 5 Advanced Scrum Master Certification
SAFe [®] Release Train Engineer	Facilitating Lean-Agile Program Execution	with SAFe® 5 Release Train Engineer Certification
SAFe [*] for Architects	Architecting for Continuous Value Flow with SAFe®	with SAFe® 5 Architect Certification
SAFe* DevOps	Optimizing Your Value Stream	with SAFe® 5 DevOps Practitioner Certification
SAFe* for Teams	Establishing Team Agility for Agile Release Trains	with SAFe® 5 Practitioner Certification
Agile Software Engineering	Enabling Technical Agility for the Lean Enterprise	with SAFe® 5 Agile Software Engineer Certification

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Logistics Course meeting times Breaks Facilities Technology requirements Working agreements



Discussion: Introductions



- Step 1: Meeting in pairs, introduce yourself and share:
 - Your strengths as a Scrum Master and your favorite event to facilitate
 - What you would like to learn and practice in this course to improve in your role as a Scrum Master
- Step 2: Introduce each other to the class. Note similar strengths and challenges.



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Lesson Topics

1.1 Explore Scrum Master challenges in the Enterprise

1.2 Explain the purpose and the basic constructs of SAFe

1.3 Establish Scrum Master connections in SAFe



Learning Objectives

At the end of this lesson, you should be able to:

- ► Define the challenges of the Scrum Master in the Enterprises
- Analyze the basic constructs of SAFe
- Create connections between the role of the Scrum Master and the SAFe competencies

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Discussion: Solving issues with facilitation



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- Step 1: Working in your groups, brainstorm team challenges that require facilitation and that originate from within and outside the team.
- Step 2: Add the challenge to the Scrum Master challenges board.
- Step 3: Share a few of the challenges with the class.
- Step 4: We will address the challenges and how to address them throughout the course.



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Activity: The Seven Core Competencies and the Scrum Master role



- Step 1: Working in your groups, use the SAFe Big Picture graphic and draw connections from the Scrum Master to other Framework elements, based on:
 - Communication
 - Collaboration
 - Problem-solving
 - Inputs/outputs
 - Other ideas you have
- Step 2: Be ready to present and discuss the identified connections





Lesson review

In this lesson you:

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- Defined the challenges of the Scrum Master in the Enterprises
- Analyzed the purpose and basic constructs of SAFe
- Created connections between the role of the Scrum Master SAFe competencies



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Lesson 2 Applying SAFe® Principles

SAFe® Course - Attending this course gives students access to the SAFe Advanced Scrum Master exam and related preparation materials.

Lesson Topics

2.1 Apply the SAFe Principles in the role of a Scrum Master



Learning Objectives

At the end of this lesson, you should be able to:

► Apply the SAFe Principles in the role of a Scrum Master

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 SAFe Lean-Agile Principles
#1 Take an economic view
#2 Apply systems thinking
#3 Assume variability; preserve options
#4 Build incrementally with fast, integrated learning cycles
#5 Base milestones on objective evaluation of working systems
#6 Visualize and limit WIP, reduce batch sizes, and manage queue lengths
#7Apply cadence, synchronize with cross-domain planning
#8 Unlock the intrinsic motivation of knowledge workers
#9 Decentralize decision-making
#10 Organize around value

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2-3

















#2 Apply systems thinking







"I say an hour lost at a bottleneck is an hour out of the entire system. I say an hour saved at a non-bottleneck is worthless. Bottlenecks govern both throughput and inventory."

— Eliyahu M. Goldratt, The Goal



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Team and ART Events





















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The importance of small batches

Small batches go through the system faster with lower variability.

- ► Large batch sizes increase variability
- ► High utilization increases variability
- Severe project slippage is the most likely result
- ► The most important batch is the transport (handoff) batch
- Proximity (co-location) enables small batch size
- Good infrastructure enables small batches

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Cadence and synchronization Cadence **Synchronization** Converts unpredictable events into predictable ► Causes multiple events to happen simultaneously occurrences and lowers cost Facilitates cross-functional trade-offs ► Makes waiting times for new work predictable Provides routine dependency management Supports regular planning and cross-functional ► Supports full stem integration and assessment coordination Provides multiple feedback perspectives ► Limits batch sizes to a single interval Controls injection of new work Provides scheduled integration points Note: Delivering on cadence requires Note: To work effectively, design scope or capacity margin cycles must be synchronized 2-48 SCALED AGILES® © Scaled Agile. Inc.







On managing knowledge workers

Workers are knowledge workers if they know more about the work they perform than their bosses. —Peter Drucker



Used with permission from The Drucker Institute at Claremont Graduate University

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- Workers themselves are most qualified to make decisions about how to perform their work.
- The workers must be heard and respected for management to lead effectively.
- Knowledge workers must manage themselves. They need autonomy.
- Continuing innovation must be part of the work, the tasks, and the responsibilities of knowledge workers.

2-52



Decentralize decision-making						
Define the economic logic behind a decision; empower others to make the changes.						
Centralize	Decentralize everything else					
 Infrequent – Not made very often and usually not urgent (Example: Internationalization strategy) Long-lasting – Once made, highly unlikely to change (Example: Common technology platform) Significant economies of scale – Provide large and broad economic benefit (Example: Compensation strategy) 	 Frequent – Routine, everyday decisions (Example: Team and Program Backlog) Time critical – High cost of delay (Example: Point release to Customer) Requires local information – Specific and local technology or Customer context is required (Example: Feature criteria) 					
SCALED AGILE® © Scaled Agile. Inc.	2-54					

×Cx°	Activity: Decentralize decision-making									
Step 1: Const those decision	Step 1: Consider three significant decisions you are currently facing. Capture those decisions.									
 Step 2: Rate economies o 	Step 2: Rate each decision based on the frequency, time criticality, and economies of scale, assigning a value of 0, 1, or 2.									
► Step 3: Add	▶ Step 3: Add the total values: 0 – 3 centralize and 4 – 6 decentralize.									
Decision	Frequent? Y=2 N=0	Time-critical? Y=2 N=0 Economies of scale? Y=0 N=2		Total						
	SCALED AGILE® © Scaled Agile. Inc. 2-55									













Activity: Building and presenting SAFe Principles poster



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- Step 1: In your group, pick one SAFe Principle
- Step 2: Document the SAFe Principle with the following requirements:
 - Title: Your team's chosen SAFe Principle (e.g., Take an economic view)
 - How does a Scrum Master apply the principle?
 - Capture strategies, actions, and events that apply to the principle in the format of your choice
- **Step 3:** Present your applications to the class

Take an Lesson 2 Activity: Building and presenting 3AFe I

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Lesson 3 Exploring Agile and Scrum Anti-Patterns

SAFe® Course - Attending this course gives students access to the SAFe Advanced Scrum Master exam and related preparation materials.

Lesson Topics

3.1 Explore anti-patterns associated with the Product Owner role

3.2 Explain how Stories and tasks may lead to anti-patterns

3.3 Identify contextspecific anti-patterns in your environment



Learning Objectives

At the end of this lesson, you should be able to:

- Identify anti-patterns associated with the Product Owner role
- Analyze how Stories and tasks may lead to anti-patterns
- Evaluate context-specific anti-patterns in your environment

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3-3

Recognizing anti-patterns									
As an Agile coach, the Scrum Master must learn to recognize anti-patterns in the process. An anti-pattern can be									
	Structural or behavioral			Internal or external					
	Structural example	Team has more than one Product Owner		Internal example	Developers don't work collaboratively on Stories				
	Behavioral example	Partially completed Stories are being carried over from Iteration to Iteration		External example	Lack of coordination with other teams leads to excessive WIP				
SCAL	SCALED AGILES* © Scaled Agile. Inc.								





Discussion: Anti-patterns that involve the Product Owner



- Step 1: Working in your groups, brainstorm antipatterns that arise from the interaction between the Product Owner and the rest of the team
- Step 2: Discuss how you as a Scrum Master will address some of these anti-patterns
- ► Step 3: Share with the class SCALED AGILE • Scaled Agile. Inc.





















3-15

- Step 1: Consider the following scenario: Your team is insisting that big Stories in the backlog cannot be split into smaller ones.
- **Step 2:** In your group, discuss the following:
 - How might you coach the team to reconsider?
 - What specific steps would you take to shift their mindset?
 - What event is appropriate to have this discussion with the team?
- **Step 3:** Roleplay how you will facilitate the discussion with the team.
- **Step 4**: Be prepared to share with the class.

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Lesson review In this lesson, you: d ► Identified anti-patterns associated with the Product tfolio ment Owner role Enterprise Solution Product 1 1 1 1 Owner Analyzed how Stories and Agile Product Delivery tasks may lead to anti-0 Team and Technical patterns -Ø Continuous Learning Culture Evaluated context-specific anti-patterns in your https://www.scaledagileframework.com/product-owner/ environment 3-22 SCALED AGILES © Scaled Agile. Inc.

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Lesson 4 Facilitating Program Execution

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Lesson Topics

- 4.1 Synchronize development with the Agile Release Train
- 4.2 Organize teams around the flow of value
- 4.3 Plan the Program Increment


Lesson Topics

- 4.4 Execute the Program Increment
- 4.5 Enable teams to release value on demand
- 4.6 Prepare for the next PI Planning session



Learning objectives

At the end of this lesson, you should be able to:

- ▶ Execute development with the Agile Release Train
- Establish teams around the flow of value
- ► Organize the Program Increment
- Execute the Program Increment
- Manage teams to release value on demand
- Prepare for the next PI Planning session





















Responsibilities of the RTE Manage and optimize flow of value through the ART Facilitate PI Planning readiness and the event itself ► Aggregate and communicate PI Objectives ► Assist with execution and Feature completion tracking ► Assist with economic decision-making through Feature estimation and roll-up to Value Stream and portfolio Escalate and track impediments ► Foster collaboration between teams and system-level • stakeholders; manage risks and dependencies Drive relentless improvement via Inspect and Adapt ► SCALED AGILES © Scaled Agile. Inc. 4-15





















PI Planning: Day 1 agenda		
Business context	8:00 - 9:00	State of the business
Product/Solution Vision	9:00 – 10:30	Vision and prioritized Features
Architecture Vision and development practices	10:30 – 11:30	Architecture, common frameworks, etc.Agile tooling, engineering practices, etc.
Planning context and lunch	11:30 – 1:00	Facilitator explains the planning process
Team breakouts	1:00 – 4:00	 Teams develop draft plans and identify risks and impediments Architects and Product Managers circulate
Draft plan review	4:00 - 5:00	• Teams present draft plans, risks, and impediments
Management review and problem solving	5:00 - 6:00	Adjustments made based on challenges, risks, and impediments
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Architecture, User Experience (UX), and development practices

Architecture, UX, and development practices are high priorities in PI Planning, not afterthoughts!

- A System Architect presents the Vision for architecture, new architecture Epics, and common frameworks
- Development management may provide updates on Agile tooling and improvements in engineering practices
- UX professionals provide guidance around usability issues



4-2

Team breakout #1

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- In breakouts, each team breaks down its Features into User Stories. Stories are estimated and placed into Iterations.
- There is a lot of back and forth between the teams, mostly about understanding and minimizing dependencies.



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Program Board 1





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Example program board #2



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Make planning adjustments

Based on the previous day's management review and problem-solving meeting, adjustments are discussed.

Possible changes:

- Business priorities
- Adjustment to plan
- Changes to scope
- Movement of resources



Team breakout #2

Based on new knowledge (and a good night's sleep), teams work to create their final plans.

- In the second team breakout, Business Owners circulate and assign business value to PI Objectives from low (1) to high (10)
- Teams finalize the Program Increment plan
- Teams also consolidate program risks, impediments, and dependencies
- Uncommitted objectives provide the capacity and guard band needed to increase cadence-based delivery reliability

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Objectives for PI 1	BV	ABV
 Show routing calculations between the 5 most frequent destinations Navigate autonomously from distribution center the most frequent destination Parallel park for a delivery Return to distribution center after delivery Include traffic data in route planning Recall a delivery that is already in progress 	10 8 7 10 7 7	
Uncommitted Objectives		
 Spike: Reduce GPS signal loss by 25% Demonstrate real-time rerouting to avoid delays (e.g., accident, construction) 	2 5	_





Teams and Business Owners peer-review all final plans

Final plan review agenda

- 1. Changes to capacity and load
- 2. Final PI Objectives with business value
- 3. Program risks and impediments
- 4. Q&A session



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Building the final plan

- Final plans are collected at the front of the room
- Final plans are reviewed by all teams
- Business Owners are asked whether they accept the plan
- If so, the team's plan and program risk sheet are brought to the front of the room
- If not, the plans stay in place and the team continues planning after the review



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4-47

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Lesson 5 Improving Flow with Kanban and XP

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Lesson Topics

5.1 Build your Kanban board

5.2 Measure and optimize flow

5.3 Build quality in

5.4 Foster engineering craftsmanship

5.5 Facilitate collaboration with Architects, System Team, and Operations

























Discussion: Iteration KPIs (key performance indicators)



- Step 1: Working in your groups, discuss what the example chart illustrates about the team's flow and predictability
- Step 2: Share with the class how you, as a Scrum Master, can improve flow and predictability



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Eurotionality				
	Functionality	Iteration 1	Iteration 2	Iteration 3
Metrics measure	# Stories (loaded at beginning of Iteration)	0	0	-
thinas like	# accepted Stories (defined, built, tested, and accepted)	0	0	
	% accepted	0%	0%	
velocity and	# not accepted (not achieved within the Iteration)	0	0	
	# pushed to next Iteration (rescheduled in next Iteration)	0	0	
throughput	# not accepted: deferred to later date	0	0	
	# not accepted: deleted from backlog	0	0	
	# added (during Iteration; should typically be 0)	0	0	
Quality Metrics	Quality			
moosure the	% Story Complete with test available/test automated	0%	0%	-
	Defect count at start of Iteration	0	0	
ability to build	Defect count at end of Iteration	0	0	
ability to build	# new test cases	0	0	
and a life of the first and the a	# new test cases automated	0	0	_
quality into the	# new manual test cases	0	0	
. ,	Total manual tests	0	0	
process	% tests automated	0%	0%	
	Unit test coverage percentage	0	0	-





















Built-in Quality

- Ensures that every increment of the • Solution reflects quality standards
- Is required for sustainably high development velocity
- Includes Continuous Integration, testfirst, refactoring, pair work, collective ownership, and more (for software quality practices mostly inspired by XP)
- Is supported in hardware by early exploratory Iterations, frequent system-level integration, design verification, MBSE, and set-based design



Code Quality

System Quality

Release Quality

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Pair work

Improves system quality, design decisions, knowledge sharing, and team velocity

- Broader and less constraining than pair programming
- Collaborative effort of any two team members: dev/dev, dev/PO, dev/tester, etc.
- Team members spend 20% to 80% of their time pairing
- Pairs should be spontaneous and purposefully rotate over time

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Share







Team Inside-Outs A team member prepares a short presentation or flip chart talk for their team. Frequency: Once every 1–2 Iterations Duration: 30–60 minutes Example: We will soon start using Hibernate for data persistence. John has experience and is willing to share his knowledge. Help kick-start the first 2–3 Inside-Outs and help participants prepare	Team Inside-Outs A team member prepares a short presentation or flip chart talk for their team. Frequency: Once every 1–2 Iterations Duration: 30–60 minutes Example: We will soon start using Hibernate for data persistence. John has experience and is willing to share his knowledge. Your role Help kick-start the first 2–3 Inside-Outs and help participants prepare	Encourage lea	ncourage learning: Inside-Outs		
Team Inside-Outs A team member prepares a short presentation or flip chart talk for their team. Duration: 30–60 minutes Example: We will soon start using Hibernate for data persistence. John has experience and is willing to share his knowledge. Help kick-start the first 2–3 Inside-Outs and help participants prepare Maintain the Inside Out as bedule Duration: 30–60 minutes	Team Inside-Outs A team member prepares a short presentation or flip chart talk for their team. Duration: 30–60 minutes Example: We will soon start using Hibernate for data persistence. John has experience and is willing to share his knowledge. Example: We will soon start using Hibernate for data persistence. John has experience and is willing to share his knowledge. Your role Help kick-start the first 2–3 Inside-Outs and help participants prepare	Team Inside-Outs		Frequency: Once every 1–2 Iterations	
Example: We will soon start using Hibernate for data persistence. John has experience and is willing to share his knowledge. Help kick-start the first 2–3 Inside-Outs and help participants prepare	Your role Example: We will soon start using Hibernate for data persistence. John has experience and is willing to share his knowledge. Your role Help kick-start the first 2–3 Inside-Outs and help participants prepare		A team member prepares a short presentation or flip chart talk for their team.	Duration: 30–60 minutes	
Help kick-start the first 2–3 Inside-Outs and help participants prepare	Help kick-start the first 2–3 Inside-Outs and help participants prepare Your role			Example: We will soon start using Hibernate for data persistence. John has experience and is willing to share his knowledge.	
Meintein the Inside Out schedule	Your role Maintain the Inside-Out schedule		Holp kick start the first 2 d	2 Incide Outs and help participants propage	
	Your role		Maintain the Incide Out schedule		
Invite shared resources (System Architect, User Experience, infrastructure, etc.) or people from other teams to discuss useful topics				5-41	
Invite shared resources (System Architect, User Experience, infrastructure, etc.) or people from other teams to discuss useful topics					

Encourage learning: Book and Coffee Breaks			
Book and Coffee Breaks (BCBs)	A normal coffee break	Frequency: 3–4 times per Iteration	
	with 3–4 people discussing a book on a new technology, practice, or domain topic that the team is trying to master.	Duration: 30–60 minutes	
		Example: The team is about to build its first crawler and Andrew reads them some excerpts from Soumen Chakrabarti's book <i>Mining the Web</i>	
Your role	Lead a few BCBs and acquaint people with the format		
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Encourage lea	arning: Coding Dojo		
	A session where developers and/or automated test engineers gather to	Frequency: Once every 1–2 Iterations	
Coding (and Testing) Dojo	discuss programming and testing challenges. One or two people sit at the computer and project onto a screen. As they code, people comment out loud. After 5–8 minutes, people rotate.	Duration: 60–90 minutes	
Your role	Arrange facilities and equipment		
	Help brainstorm fun, challenging exercises (could be a spike, a script for retrieving data, or even code in one of the main modules)		
	Similarly, testers will enjoy learning how to write test scripts		
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Encourage learning: Communities of Practice		
	Communities of practice are self-organizing groups that form to discuss new topics, challenges and best practices.	Frequency: Once every 1–2 Iterations
Communities of		Duration: 30–60 minutes
Practice (CoPs)		Format: Any of the formats previously discussed (Inside- Out, BCB, Dojo)
		Example: An automated testing CoP gathers to attend Ivan's presentation on creating FIT tests for complex branching scenarios.
	Work with other Scrum Masters and the Release Train Engineer to create and maintain the CoPs	
Your role	Unite people from different teams in the program around the same process objectives or activities like unit testing, automated acceptance testing, or system design	
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Lesson review

In this lesson you:

- ▶ Built your Kanban board
- Measured and optimized flow
- ► Explored building quality in
- Discussed fostering engineering craftsmanship
- Facilitated collaboration with Architects, System Team, and Operations

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Lesson 6 Building High-Performing Teams

SAFe® Course - Attending this course gives students access to the SAFe Advanced Scrum Master exam and related preparation materials.

Lesson Topics

6.1 Foster collaboration on the team

6.2 Facilitate cross-team collaboration

6.3 Build trust with stakeholders

6.4 Develop team skill sets

6.5 Build an improvement Roadmap



ASM

Learning Objectives

At the end of this lesson, you should be able to:

- Develop practices to foster collaboration on the team
- Apply practices to facilitate cross-team collaboration
- Establish practices to build trust with stakeholders
- Develop T-shaped team skills
- Build an improvement Roadmap

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6-3

Collaboration

Simply following Scrum (or Lean-Agile) processes doesn't make an Agile Team a team.

Poor collaboration often leads to:

- Low velocity
- Poor product quality
- Low morale, low engagement, lack of commitment, poor working environment, and lack of trust
- Missed commitments and poor results

"Rather than moving in defined, highly structured stages, the real process is born out of the team members' interplay."

> Hirotaka Takeuchi and Ikujiro Nonaka

> > 6-5

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Identify team member responsibilities It can be useful both for the team themselves, but also for other teams, to understand the Team Primary responsibilities of the individual Role Member Responsibilities **Responsibilities** team members. Primary responsibilities are typically those things where you are directly responsible for the outcome. Secondary responsibilities tend to be those where you are This activity can be found in the Team Formation Toolkit contributing your expertise and time. SCALED AGILES © Scaled Agile. Inc.

Secondary

6-7





Discussion: Collaboration on your team



- What examples of collaboration would be helpful in your environment beyond basic Scrum events?
- What problems would it solve?



Duration

6-9

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Lesson review

In this lesson you:

- Developed practices to foster collaboration on the team
- Explored applying practices to facilitate cross-team collaboration
- Established practices to build trust with stakeholders
- Developed T-shaped team skills
- ▶ Built an improvement Roadmap

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n)) -Agile Teams CoP Product -Own Solution Scrum Master Agile Product Delivery 1000 Belatier Solution Context Derdes DAP - Plan Execute Review -Q Built-in Quality -----5 https://www.scaledagileframework.com/agile-teams/ https://www.scaledagileframework.com/communities-of-practice/ Enter your notes below:



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Lesson 7 Improving Program Performance

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Lesson Topics

7.1 Explore the Inspect and Adapt process

7.2 Apply problem-solving workshop





At the end of this lesson, you should be able to:

- Practice the Inspect and Adapt process
- Conduct the problem-solving workshop

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7-3



PI System Demo

At the end of the PI, teams demonstrate the current state of the Solution to the appropriate stakeholders.

- Often led by Product Management, Product Owners, and the System Team
- Attended by Business Owners, program stakeholders, the RTE, Scrum Masters, and Agile Teams
- Suggested timebox: 45–60 minutes



7-6

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Team PI performance report

Team performance is based on the actual business value assignments provided by the Business Owners.

- Planned total does not include uncommitted objectives
- Actual total includes uncommitted objectives
- Percent achievement equals actual total/planned total
- A team can achieve greater than 100% (as a result of uncommitted objectives achieved)
- Effort required for uncommitted objectives is included in the load (i.e., not extra work the team does on weekends)
- Individual team totals are rolled up into the program predictability report



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Program performance metrics Summarize and discuss any other Functionality program Metrics that the team has Program velocity Predictability measure agreed to collect # Features planned # Features accepted Suggested timebox: 45–60 minutes # Enablers planned # Enablers accepted # Stories planned # Stories accepted Quality Unit test coverage % Defects Total tests % automated # NFR tests 7-9 SCALED AGILES® Scaled Agile. Inc.







Agree on the problem to solve Clearly stating the problem is key to problem identification and correction You must define the problem or situation, so everyone involved in the workshop understands what to address A clearly defined problem focuses your investigation efforts and saves time A problem that is not well-defined may result in failure to reach the proper countermeasure

















- Also known as the 80/20 rule, the Pareto analysis is a statistical decision technique used to narrow down the number of actions that produce the most significant overall effect
- It uses the principle that 20% of root causes can cause 80% of problems
- It is useful where many possible sources and actions are competing

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