

PARTICIPANT GUIDE

Cubic Integrator Learning Journey

Session 6: Agile Concepts, Lean Thinking, and Continuous Improvements





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MANAGEMENT AND LEADERSHIP

Cubic Integrator Learning Journey

Session 6: Agile Concepts, Lean Thinking, and Continuous Improvement

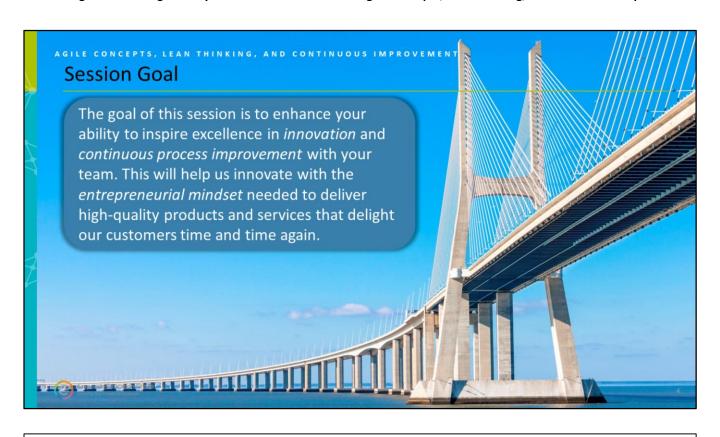


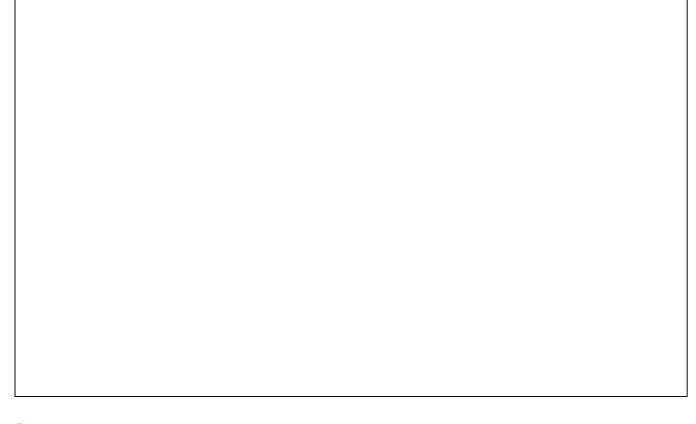


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MDV829g-1121 Session 6







Session Learning Objectives



By the end of this course, you will be able to:

- Define agile and lean concepts
- Describe the skill sets needed for an agile team
- Use process improvement to support organizational growth
- Shape a culture of continuous improvement











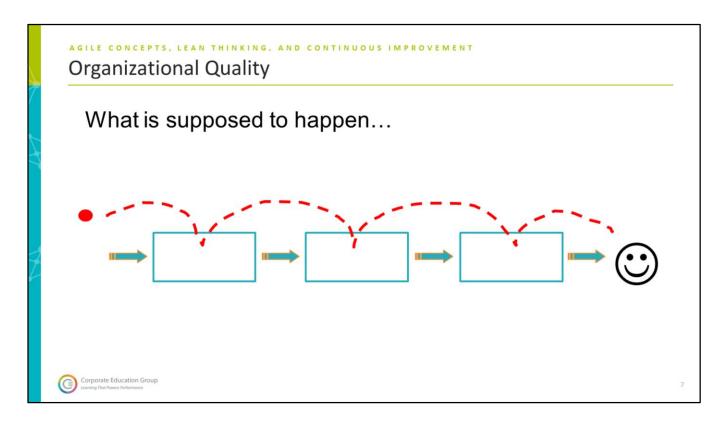
Session Topics

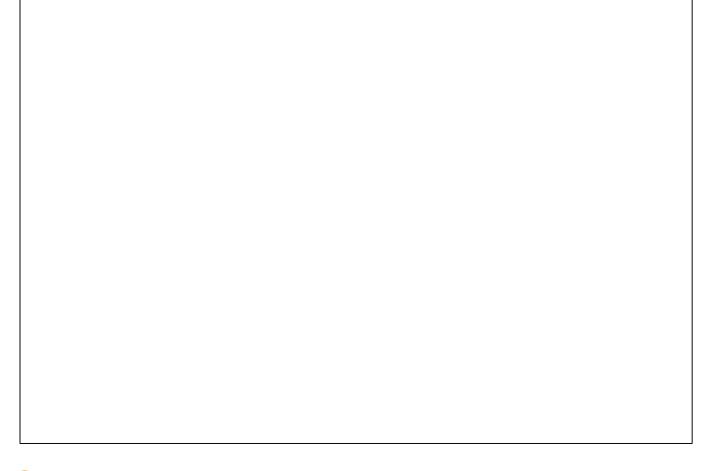




- What Is Lean Thinking?
- Nurturing Continuous Improvement Culture
- Guiding an Agile Team







CHAT

What Impedes Workflow?







What do you witness?

 What impedes workflow, at either an organizational or a personal level?

Please type your response in the chat box.





Lean Thinking





- Cycle Time Reduction
- Process Analysis
- · Elimination of Waste
- Rapid Project Execution
- Error-Proofing
- Engagement of Those Involved
- Continuous Improvement



Do it right the first time

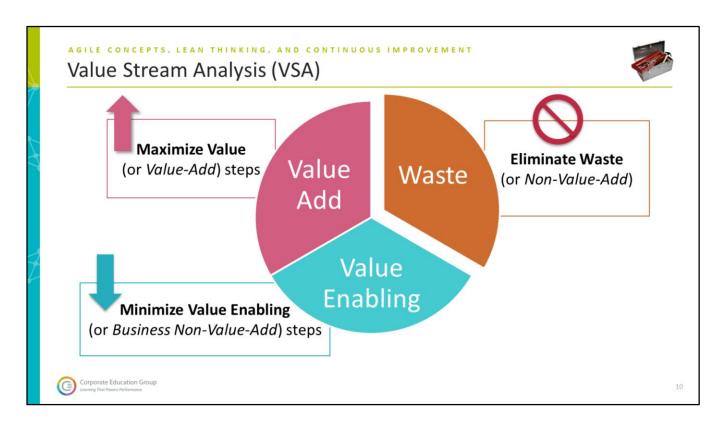
Move on

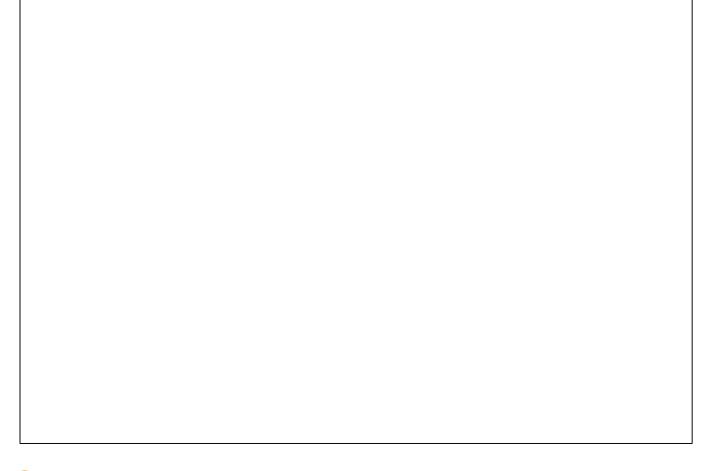


Through the lens of the external customer/client

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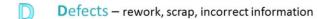


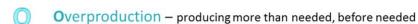




Types of Waste - Muda

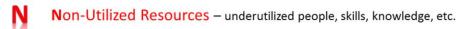








Waiting – wasted time waiting for next step – things, information, people



Transportation – unnecessary movement of things, information

Inventory – excess products, materials, information being processed

Motion – unnecessary movement by people (e.g. walking, searching, choosing)

Excess Processing – over-analysis, more work than required





INDIVIDUAL ACTIVITY

Identify Your Work Headaches





Objective: Create a list of your work headaches and categorize them by the type of waste.

Procedure:

Working individually, think about your daily pain points that hinder you getting your work done.

- · List them on the worksheet in your participant guide.
- Identify in which work process step each pain point happens.
- Categorize which type (s) of waste each pain point represents.
- Think about which pain point causes the most disruption in getting your work done, and circle the top 3.

Be prepared to discuss your work with your small group.







Individual Activity: Your Work Headaches

Objective: Create a list of your work headaches and categorize them by the type of waste.

Pain Points. (Circle the Top 3)	Identify Workflow Process Step	Type(s) of Waste



GROUP BREAKOUT ACTIVITY

Share Your Top 3 Work Headaches





Objective: Discuss your **top 3** daily work headaches with work colleagues and edit as appropriate.

Procedure: Working in a small group:

- 1. Share your the top 3 pain points only.
- 2. Repeat until everyone has shared.
- Discuss themes and different perspective from your colleagues' viewpoint.
- 4. Expand and/or edit your personal worksheet, as necessary

Be prepared to discuss your work.







CLASS DISCUSSION

Visual Workspace







- What do you think the term visual workspace means?
- · How do you think it relates to the different types of waste?
- How might it relate to one or more of your top 3 pain points?
 Please share example.

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	Learning That Powers Performance



A Visual Workplace Is...



- The goal of a workplace is to create an environment that is:
 - Self-explaining
 - Self-ordering
 - Self-regulating
 - Self-improving



- When I see it, then I understand it
- This is achieved by using one or more of these techniques:
 - Using visual controls
 - Applying the 5S method
 - A kaizen workshop approach





CHAT ACTIVITY Your Workplace Visual Controls Visual Controls: devices that inform or indicate a condition at a glance Method Indicates Color-coding Similar purpose or time Outlining Location Labeling Identity Signboards Identity, routes







Color indicating area of

Limit (electronic) queue

sizes to a minimum



Use dashboards to display incoming volumes

importance or differences



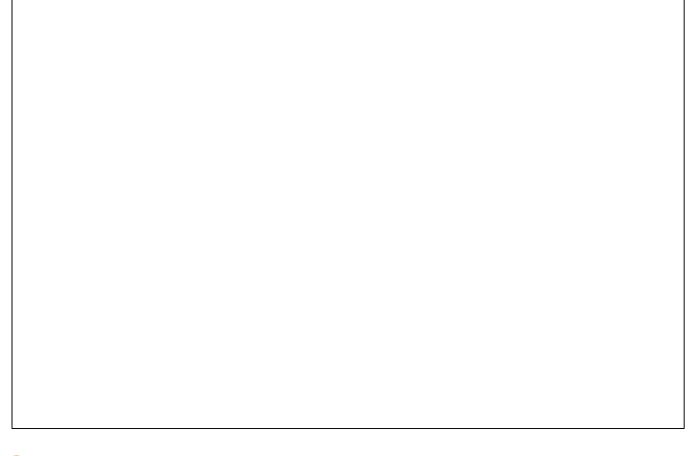


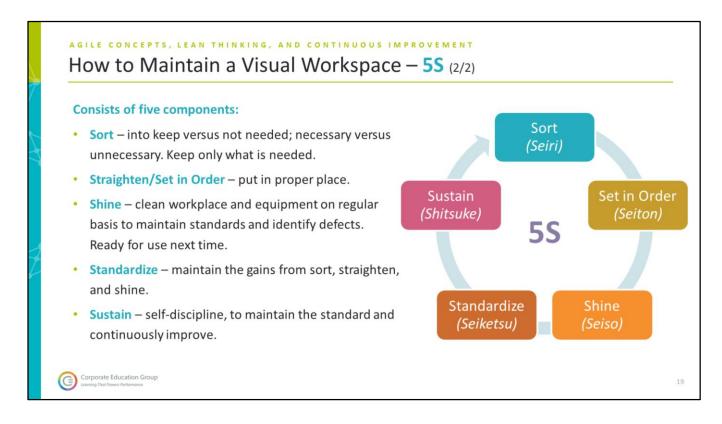
1) Current Examples to Indicate	2) Improvement Ideas to Indicate

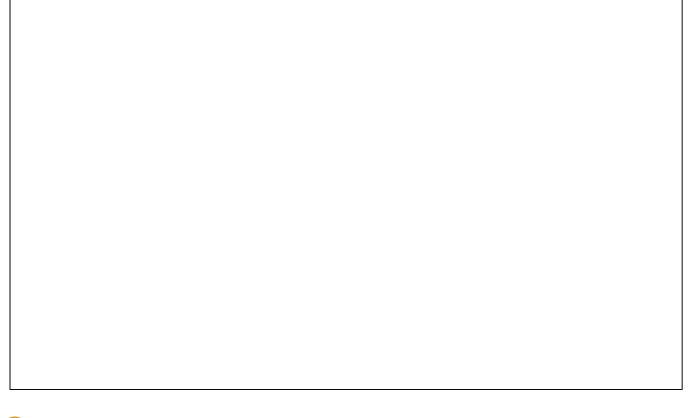


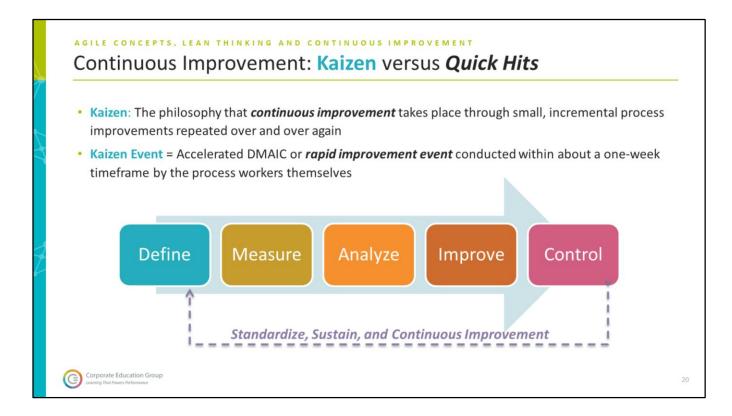


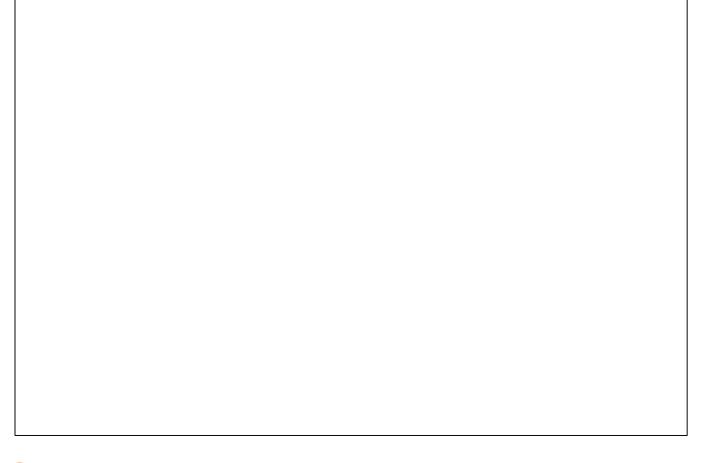
AGILE CONCEPTS, LEAN THINKING, AND CONTINUOUS IMPROVEMENT How to Maintain a Visual Workspace - 55 (1/2) A Lean (Japanese) workplace organization method Sort (Seiri) **Objectives** Create workplace organization and standardization Set in Order Sustain · Achieve and sustain a clear, clean, safe, and (Shitsuke) organized workplace Ensure that the workplace contains only what is needed, when it is needed, and where it is needed Standardize (Seiketsu) Corporate Education Group













INDIVIDUAL ACTIVITY

Revisit Headaches Using Visual Workspace





Objective: Understand what lean concepts might help improve work.

Procedure: Individually, revisit your *top 3 work pain points* from the first exercise. Complete this exercise recording work on the new visual workspace worksheet in your participant guide.

- 1. Think about how long each problem has existed.
- Record any involved other work performers (individual roles, teams, organizations) and supporting performers.
- 3. Identify potential root causes behind the pain point.
- Name which visual workspace technique(s) might possibly help resolve the pain point (i.e., visual controls, 5S, and/or kaizen event).

Be prepared to discuss your work with the large group.







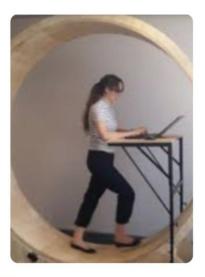
Individual Activity: Revisit Headaches Using Visual Workspace

Working individually, revisit your *top 3 work pain points* from the first exercise and complete this exercise by recording your work on the new visual workspace worksheet below.

Top 3 Pain Points	Other Work Performers	Potential Root Cause of Failed Improvement	Visual Controls/5S/ Kaizen Support



Continuous Improvement



- We all get on the hamster wheel of daily life and time passes with hopes for improvement ... tomorrow.
- *Lean* incorporates a mindset and toolset to help realize the goals of continuous improvement today.
- It is not an addition to daily life it simply becomes a part of daily life.





CLASS DISCUSSION

Lean Enterprise







- A lean enterprise emphasizes the prevention of waste and a company culture of continuous improvement.
- Outdated mass-production systems are systematically transformed to lean systems that improve quality and reduce defects and costs.

How might your organization instill lean and continuous improvement into its culture?





Comparing Traditional and Agile Project Management

Traditional Waterfall

Agile

- Team lead: project manager (PM) role
- PM manages:
 - 1. Integration
 - 2. Scope
- 6. Risk7. Stakeholder
- 3. Schedule
- 8. Resources
- 4. Budget
- 9. Communication
- 5. Quality
- 10. Procurement
- PM combines a mix of leader and manager role
- PM manages how the team works to produce deliverables within phase gates
 - Team size varies (6 to 1000)
 - Defines team structure and guides team on "rules of engagement"
- Documentation-heavy
- Stable requirements necessitate integration change control and governance

- ----
- Team lead: Scrum master (SM) role
 SM's primary role is as "roadblock eliminator" and "educator" on the agile approach
- Team is small (6 to 10), possess full portfolio of skills needed, and it defines how to will work together
- · Documentation is light, using "public" boards
- Changing requirements necessitate:
 - Minimizing design and development costs early (using prototyping)
 - Frequent touch points with key stakeholders (product owner) to elicit feedback and answer questions





Four Key Success Elements to Managing Team's Work

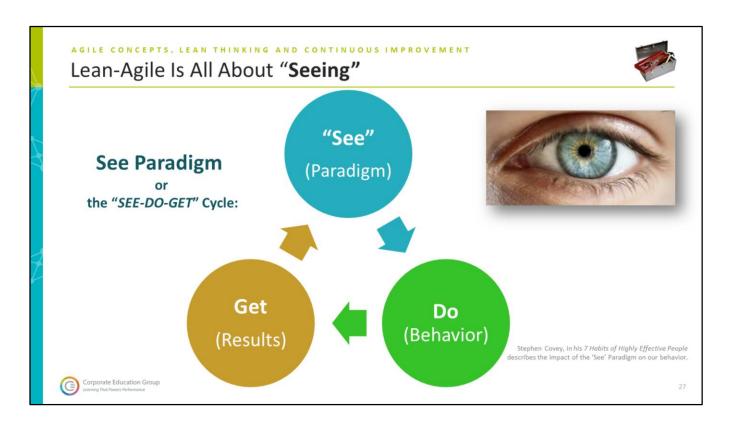
- 1. Priorities Clarified and Stack Ranked both across portfolio of work and within project (e.g., documented in a project charter for waterfall or product backlog for agile projects)
- 2. Agreements on "Rules of Engagement":
 - How to work together (roles and responsibilities)
 - Expectations for deliverables' monitoring (report on performance against plan) and controlling (if any variance, what is the appropriate corrective action?)

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- How best to communicate within team (formal or informal), escalation, reviews, etc.
- 3. What Good Looks Like agreed-upon metrics for key deliverables (output and process) and for the team's "rules of engagement"
 - Metrics: specific, measurable, achievable, relevant, and time-bound (i.e., day/month/year).
- 4. Performance Report a dashboard communicating work status, key issues, and near-term forecast

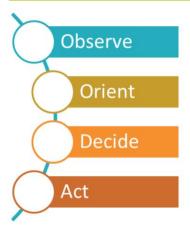








Scrum: Conducting a Team Meeting via the Agile Method



- Self-organizing and self-managing teams; ideally cross-functional
- Conduct reviews often (daily) for a few minutes (about 5 minutes);
 often stand
- Ask 3 questions:
 - What did you do since the last time we met?
 - 2. What are you going to do?
 - 3. What is getting in your way?
- Identify and categorize what is working well and what isn't; decide on a course of action.
- Permits anyone to attend, but only team members committed to delivering Scrum work are allowed to speak.



Key culture ingredient to an agile team





INDIVIDUAL ACTIVITY

What Good Looks Like





Objective: Practice applying agile techniques to help improve work.

Procedure: Individually, revisit your top 3 work pain points from previous exercises. Complete this exercise by recording your work on new worksheet in the participant guide.

- Reflect on the work's supporting performers (individual roles, teams, organizations) and the potential root causes behind the pain point, and develop metrics that define the success criteria metrics for their contribution.
 - Consider: being specific, measurable, achievable, relevant, and time-bound (i.e., day/month/year)
- Think about how you will communicate what you "see" to them when introducing these new metrics.

Be prepared to discuss your work with the large group.







Individual Activity: What Good Looks Like

Working individually, revisit your top 3 work pain points from the previous exercises and complete this exercise by recording your work on the new worksheet below.

Top 3 Pain Points	Other Work Performers	Potential Root Cause of Failed Improvement	Critical Success Metrics



DEBRIEF DISCUSSION

What Good Looks Like







- What new metrics did you think of that hadn't been communicated in the past?
- What communication strategy did you come up with to share these metrics with these stakeholders?







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Delivering Results of Value

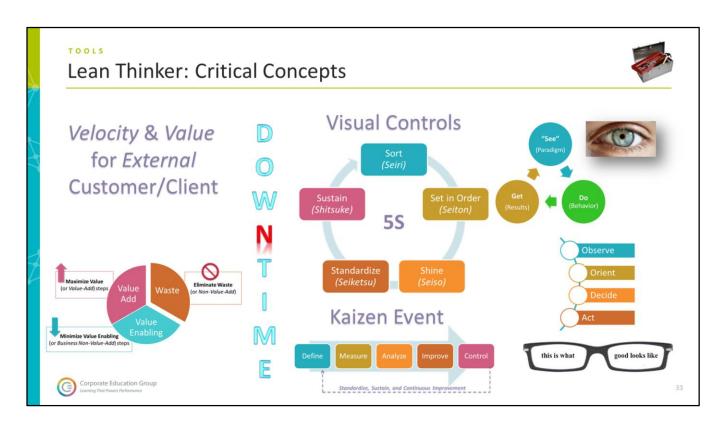
- Continually "seeing" opportunities to increase value and velocity to the external customer/client through the lens of various stakeholders
- · Value = of worth (importance); willing to pay for it
 - Fit for use: functional (useable); answers a need
 - Value is in the eye of the beholder; as defined by the requester/customer
 - The requester may not always best describe the need
 - Envisioning or being aware of "what is of value" may be elusive
 - It may be easier to describe frustrations (or waste)
 - Observe the requesters working/doing to understand intention
- Robust design: something fit for use even during/after a "special-cause event"

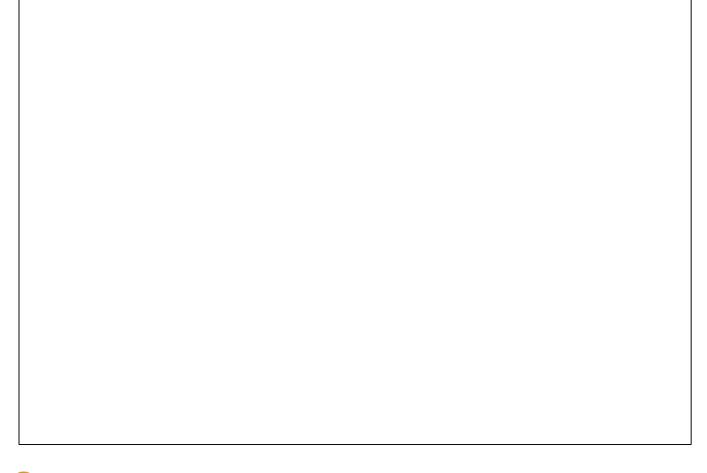












CHAT ACTIVITY

Demonstrating Lean Thinking







To wrap up, type in the chat box:

- What do you see? What is one action you can take in the next week to lean thinking at either an organizational or at a personal level?
- How do you plan to implement this lean thinking action and who will you involve?









NEXT STEPS: BRIDGE WORL

Deepen Your Understanding of Lean Thinking





Individually, explore these resources to deepen your understanding:

 Read: HBR article "Creating a Culture of Continuous Improvement" by Aravind Chandrasekaran and John S.
 Toussaint https://hbr.org/2019/05/creating-a-culture-of-continuous-improvement



- Book Recommendation: Scrum: The Art of Doing Twice the Work in Half the Time, by Jeff Sutherland
- Book Recommendation: Lean Enterprise: How High Performance Organizations Innovate at Scale, by J. Humble, J. Molesky, and B. O'Reilly



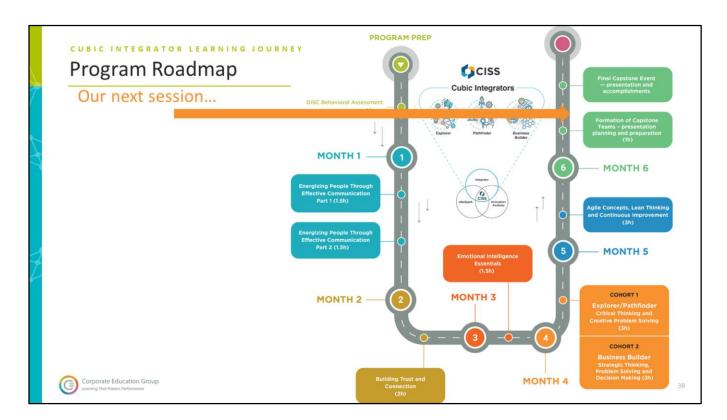


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