

Study Guide: A3

A3 PROBLEM SOLVING PROBLEM: NAME: DATE: 1. PROBLEM: WHAT HAPPENED? 3. CAUSE: WHY DID IT HAPPEN? 4. IMPROVE: HOW DO WE KEEP IT FROM HAPPENING? 5. CHECK: HOW WILL WE KNOW IF IT WORKED?

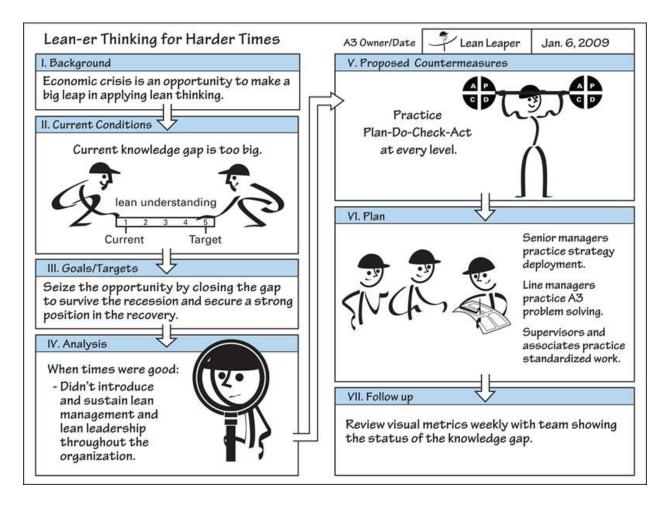
This course provides a fundamental understanding of the A3 process and how to apply it in various settings.

What is A3?

The A3 tool can be used to structure problem solving for Continuous Improvement

- 3 Common mistakes in problem-solving
 - 1. Assuming you know what the problem is without seeing what is happening
 - 2. Assuming you know how to fix a problem without finding out what is causing it
 - 3. Assuming you know what is causing the problem without confirming it

A3 thinking helps us avoid these common mistakes and gives us a structure for solving problems in a way that creates sustainable and accurate outcomes



A3 helps to:

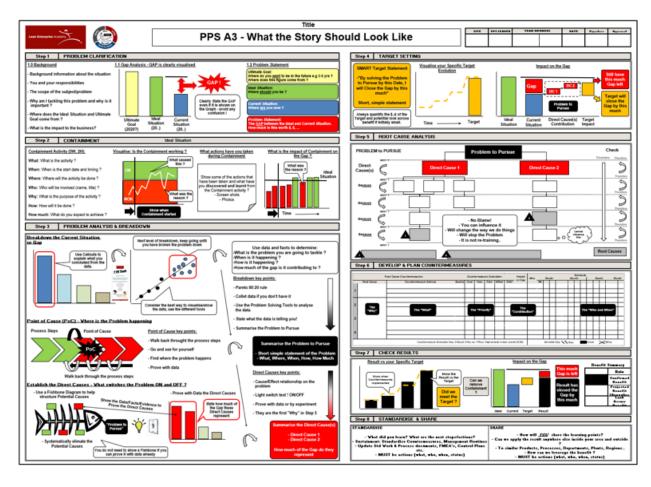
- Gain alignment and agreement
- Develop thinking problem-solvers along the way
- Tell the problem-solving story

A3 is a size of paper that measures 11" x 17". It was adopted at Toyota because it was the largest sheet of paper that could fit into a fax machine. It helps to tell the entire problem-solving story on a single sheet of paper.

A3 can be used in multiple environments to solve problems of varying complexity.

A3 Structure

There are many different forms for A3's but they all follow a similar structure. On the left side of the document, you'll find "How things currently are and how we'd like them to be." On the right side of the document, you'll find "How we will work together to get where we'd like to be.



The flow of the form is to start in the top left of the A3 and go down to the bottom, then continue to the top right of the form and proceed down to the bottom

There are several sections of the A3, which include the following:

- 1. **Project Title** helps to summary what you are trying to improve
- 2. Team -
 - Sponsor: Who is the supervisor supporting this project?
 - Leader(s): Who is leading the project and team?
 - Other Team Members: Who is involved in the A3 thinking process?
 - Last updated: When the A3 was last updated
- 3. **Problem statement:** What problem are you trying to solve
 - Tips
 - If you have "lack of", you're implying a solution

- Do not imply who is at fault
- Make sure everyone on the team is in agreement with the problem statement
- 4. **Background:** How does this problem align with the vision of the organization? In what tangible ways is it important to the mission of the organization?
 - Tips:
 - Assess how the problem impacts the customer
 - Understand why we should care about this problem
 - Show how this project is aligned with organizational objectives
- 5. Current State Identify where you are currently
 - Could include process map
 - Could include Run Chart to show current performance and goal
- 6. Target State or SMART Goal
 - Tip SMART Goals should follow this criteria:
 - Specific
 - Measurable
 - Achievable
 - Relevant
 - Time-bound
- 7. Analysis Understand Root Causes for the issues identified
 - Tools might include Fishbone or 5 Whys Analysis
- 8. Key Drivers and Countermeasures
 - Key Drivers Items that must happen consistently to reach your goal
 - Countermeasures Changes we are making to the process that will result in the Key Drivers
- Sustain plan Identify what structures will be in place to ensure that changes will sustain
 - Might include activity to sustain
 - Owner
 - Sustain method and frequency

making progress

and reevaluate

when necessary.

Who owners will report status updates to



goal within a

certain time

frame.

long-term

objectives.

task prioritisation

and motivation

effective

planning.



A3 Summary

A3 is a document that helps to visualize the thought process for solving problems



In summary:

- 1. The A3 is a consensus-building communications tool
 - Gains alignment and agreement
 - Develops thinking problem solvers
 - Tells the problem-solving story
- 2. Follow the flow of the A3, answer the questions, do the process in order
- 3. Every step is a conversation, not to be done alone
- 4. Visualize the thought process