Trying Out Solutions
Plan Do Study Act using Rapid-Cycle Testing

Plan Do Study Act Using Rapid Cycle Testing

By the end of this module you will be able to:

- Practice making changes using the PDSA model
- Understand the importance of making one change at a time
- Understand the importance of collecting data

PDSA Using Rapid Cycle Testing
The contents in this module align with the objectives of the collaborative in the following ways:

- Great team activity that focuses on taking action, resist the temptation to over plan, assigning people to take the lead.
- Using data to measure changes will help you identify what changes are improvements and what might just be a change.
- Understand the importance of delegation and documenting changes for future reference.
To be successful in this module, you will need to complete the following tasks:

- Leverage the Team input.
- Follow the directions.
- Make only one change at a time.....
- Document what you are doing!
- Have fun.

**PDSA Cycle for Improvement**

**Plan**
- State the objective
- Describe the who, what, when, where of plan execution
- Document questions and hypothesis

**Do**
- Carry out the plan
- Document problems and unexpected observations
- Begin analysis of the data

**Study**
- Complete the analysis of the data
- Compare data to predictions
- Summarize what was learned

**Act**
- What changes are to be made in the next cycle
- Adapt
- Adopt
- Abandon

Adapted version of the Deming Model

**Using Rapid-Cycle Testing**

**Plan**

**Do**

**Study**

**Act**

Why, evaluate the impact of potential changes on a given aim?
PDSA Cycle for Improvement

Act
• What changes are to be made in next cycle?
  • Abandon
  • Modify

Plan
• Assign Roles
  • Design/change the plane

Study
• Results of the flight

Do
• Fly the plane
  • Record the distance

Rules
• Only one design change per PDSA cycle
• Each team designs and commits to flying only one plane
• All planes must have wings and be able to fly
• Each design is flown by each of the pilots
• In order to fly you must get clearance from the air traffic controller

Form Teams
• Count off by
• Assign the following roles
  • Team Lead
  • Pilot 1
  • Pilot 2
  • Data collection/scribe
  • Design Team
• Decide on a Name for your TEAM
• Design and build a paper airplane for distance
• Flight One Collect Your Baseline DATA
  • Pilot 1 and Pilot 2 will fly the plane and record the data; this will be your baseline (consecutive flights, improve the distance)
Repeat
• Rapid Cycle: More cycles = more data = more chances to improve a better score
Have Fun & Fly Safe!!!

Discussion
What did you learn about rapid-cycle change projects?

Rapid Cycle Testing
Where you can apply or practice what you just learned:

- Begin with baseline data when you are making important changes.
- Set a goal, let everyone on the team know what it is you are trying to accomplish.
- Steady incremental change can result in great improvements!