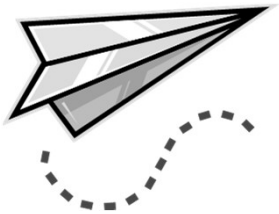
Team Exercise
PDSA/Pilot Testing Airplane Activity



The **airplane exercise** is a change project simulation to help teams learn how to conduct PDSA rapid-cycle testing and to test only one change per cycle.

The Scenario: Change Leader, your Executive Sponsor has asked you to start a change project and assemble a change team to achieve the following aim.

Aim Statement: Increase the average distance a paper airplane flies on the runway from a baseline of _____ feet to a goal of _____ feet in 30 minutes.

Change Team Roles: Assign the following roles to team members.

- Pilot #1
- Pilot #2
- Data Coordinator
- Airplane Designers

Supplies: Get the following from the supply table (one per team).

- Airplane Change Project Form
- Airplane Data Graph Sheet
- Airplane Construction Materials

Group Report-Out

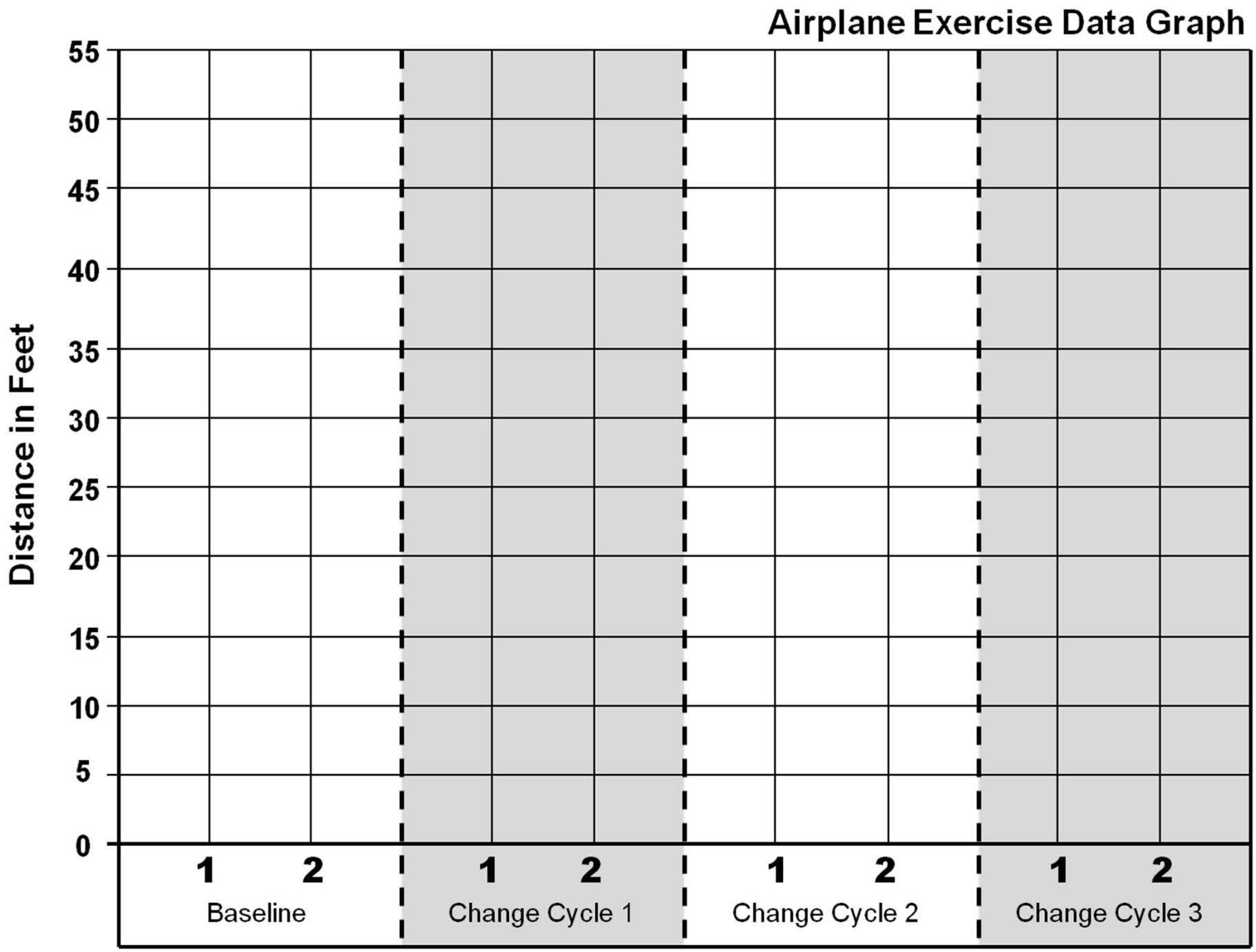
What did you learn about rapid-cycle change projects and what are your thoughts of the PDSA approach?

The Rules:

- One airplane per team.
- Two flights per PDSA Cycle (Pilot #1 and Pilot #2)
- All flights must take place on the runway. Receive clearance from air traffic control by the Data Coordinator presenting the updated change project form and graph data.
- Test only one change at a time.
- Time allotted = 30 minutes

Summary of the Steps :

1. Assign Change Team roles.
2. Get supplies.
3. Design one airplane.
4. Collect baseline data (two flights) and complete aim statement.
5. Run three PDSA cycles (one change per cycle)
6. Complete the change project form and data graph as you go.
7. Time = 30 minutes.


Airplane Exercise Data Graph
Distance in Feet
55
50
45
40
35
30
25
20
15
10
5
0
1
2
Baseline
1
2
Change Cycle 1
1
2
Change Cycle 2
1
2
Change Cycle 3

AIRPLANE EXERCISE: Change Project Form

1. CHANGE PROJECT TITLE	
2. AIM STATEMENT	Increase the distance the airplane flies on the runway from a baseline of_____feet to a goal of_____feet in 30 minutes.
8. CHANGE LEADER	
9. CHANGE TEAM MEMBERS	

A) Collect baseline data

Pilot #1 flight =_____feet Pilot #2 flight =_____feet

Calculation: (Pilot #1 distance + Pilot #2 distance) divided by 2 =_____baseline average

B) Run PDSA Cycles

PDSA Cycle #	Plan Plan one change to test. What is your prediction for the test?	Do Carry out the test. Document your observations. Record flight data.	Study Study the results. What worked, what went wrong. Summarize your learning.	Act Will you adopt, adapt or abandon the change?
1				
2				
3				