

Electronic Survey, laptop w/ Wi-Fi PDSA

Date: April 24, 2013



PLAN

Objective for this cycle

- *What do you hope to learn?*

We want to learn if it is possible to reduce total time and error using the electronic survey.

Specific questions to address:

1. Can the coordinator get access to Wi-Fi?
2. Can the participants enter unique identifier and agency id accurately?
3. How long did the process take for all participants to use one laptop to complete survey?

Predictions/Hypotheses

- *What do you think will happen when the test is done?*
Using one laptop for all participants to complete the survey will reduce errors, and increase classroom time and reduce individual time taking the survey.

Plan

For test: *who, what, when, how, where*: The week of April 22nd.

The pilot site coordinator will bring a laptop to school w/ Wi-Fi. Each participant will take turns completing the survey on the single laptop. Coordinator will create note cards with agency id and unique identifiers. After the whole process has been completed the coordinator will collect and destroy note cards.

For data collection: *who, what, when, how, how long?*

The coordinator will ask participants how the electronic survey is compared to the paper survey.

DO Carry out the change/test.

- *Collect data.*
- *Note when completed, observations, problems encountered, and special circumstances*

STUDY Analyze and summarize data (quantitative and qualitative)

- *What went well?*
- *What could be improved?*

ACT Document what was learned and plan next cycle

- *Should Adapt, Adopt, or Abandon the change?*
- *What adaptations are needed?*
- *Are you confident that you should expand size/scope of test?*

PDSA Cycle Tracking Form

**Name of Person Testing Change?
Change Tested?**

Cycle No.	<u>PLAN</u>	<u>DO</u> Date Tested	<u>STUDY</u>	<u>ACT</u>
1	<ul style="list-style-type: none"> • What did you test? • How did you test it? • Who and how many did you test it with? 	4/24/13	<ul style="list-style-type: none"> • What did you learn? • What worked well? • What could be improved? 	<ul style="list-style-type: none"> • How will you adapt the change?
	<p>We tested the use of the electronic survey submission with the pilot site, four middle school participants, using smart phones originally planned to use one laptop.</p>		<ul style="list-style-type: none"> -Laptop was not configured with wifi network at the school (different than access codes which director received prior to testing). -Used two smart phones instead which worked well. -Average completion time of 8.25 mins. With total time of 20 mins. -3/4 participants liked using smart phones better. They said it was "faster, better, didn't have to write, just more touching and not writing". -They were in their normal group setting, did not have to go to the computer lab. 	<ul style="list-style-type: none"> -Make sure laptop is configured with school's wifi along with getting access code prior. -Bring smart phones as back up. -Bring a copy of survey in case participants have questions about a specific question. -Highlight that in the unique ID zeros not the letter O.

2	We tested the use of the electronic survey submission with the pilot site, four middle school participants, using a lap top.	5/1/013	<ul style="list-style-type: none">-Average completion time of 5.5 mins. Total time 12 mins.-All of the girls said they really did not prefer the electronic vs. pen and paper.-They finished the survey in record time and they did not have any questions.-Because participants have been absent (at least one each group) in each electronic survey submission cycle, I realized that it could be challenging to do make-up electronic survey submission for just one participant unless there is access to a tablet or smart phone.	
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