Setting up Google Form and Spreadsheet for KSA Voting

This document is a supplemental to the October 2019 “Using Google Tools to Tally and Average Your KSA Vote” webinar.

The purpose: This document will provide step-by-step guidance for taking the KSA voting Excel spreadsheet and turning it into an online form that allows everyone in the room and online to vote at the same time. This eliminates the need for time-consuming hand counts of the votes. This new online format still retains the familiar KSA voting format of 4, 3, 2, 1 (4 – Most Important, 1 – Least Important).

Things you will need:
- A Google log in
- The CTC’s “Infrastructure KSA list - May 2019 update” Excel spreadsheet
- An understanding that everything you will be doing opens in a new tab on your browser
- Familiarity with basic Excel functions, formulas, and formatting
- Time

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I. Creating the Google Sheet

The first thing that needs to be created is the Google spreadsheet which will tally the votes coming in from the Google form. Open the CTC’s “Infrastructure KSA list - May 2019 update” Excel spreadsheet to use as a guide.

Go to Google.com - on the top right of your screen there is an icon that is made up of 9 dots. Click on it. Then click on the Google Drive icon and sign in. Once inside your Google Drive, you will click on the “New” button on the top left of your screen.
When you click on the “+,” a menu will pop up:

Choose “Google Sheets.” Once you click on that, a spreadsheet will pop up. (Notice that it is a new tab in your web browser.)

Go to the CTC’s “Infrastructure KSA list - May 2019 update” Excel spreadsheet. Highlight the entire spreadsheet, and copy/paste it into the Google sheet.

This is what it will look like when you do that:

You will have to do some adjusting to column widths, and you will also need to redo the formula in the “Average” column.
The formula under “Average” should look like this:

\[ \frac{4C4 + 3D4 + 2E4 + 1F4}{C4 + D4 + E4 + F4} \]

To wrap text, click on “Format” and then “Text Wrapping.” To ensure that the “Average” is just two decimal places, click on Format, Number and then Number again.

Once the formula is corrected in the first line, then you can click on the little blue square that pops up when you highlight a cell and use that to drag the average formula down to the rest of the document (just like you would in Excel).

The last thing to do is to name your spreadsheet. You do this by clicking on the word “Untitled Spreadsheet” that is next to this icon at the top left of your spreadsheet. In this example, we’ll call the spreadsheet “Infrastructure KSAs.”

Now that you have your Google sheet created, you are ready to make the Google form your BILT will use to cast their votes.

**II. Creating the Google Form**

Go back to Google Drive; to do so, go up to the tabs in your web browser. Reminder: do not close any of the tabs that open during this process.

In your web browser click on the “My Drive – Google Drive” tab:

![Google Form Example](image)

Once there, you will click on the same “+New” button on the Google Drive page. This time, select “More” and then “Google Forms.”
This is the “Untitled form” screen that will pop up:

Now you are ready to start building the form, question by question. Each KSA line item from your “Infrastructure KSA list - May 2019 update” Excel spreadsheet will become its own question on the form.
Each question will look like the example below. Choose “Linear scale” for your question type. As mentioned, your scale will use the standard KSA voting format: 1 – 4 (1 – Least Important, 4 – Most Important).

There is not a way to copy/paste or import the contents of the “Infrastructure KSA list - May 2019 update” Excel spreadsheet into Google Form. You will have to input each item on the list individually by hand.

To add the next question simply click the icon shown below by the red arrow:

You can rename your form by clicking on “Untitled form” in the tab. There are also ways to customize the form’s style, including changing the colors and adding a logo.
III. Linking the Google Form to the Google Sheet

Now it’s time to connect the voting results of the Google form to the new “Infrastructure KSAs” Google spreadsheet.

Inside the Google form page, click on “Responses,” then click on the 3 dots, and “Select response destination.”

In the “Select response destination” window – that opens a new window; click on “Select existing spreadsheet,” then click “Select.”
Now you will choose the Google Sheet that you created at the beginning of this process and click “Select.”

Messages will pop up in the bottom left corner letting you know that the form and the spreadsheet are linking.

Next, click on the “Infrastructure KSAs” Google sheet tab in your browser:
Now you will notice there is a new, second tab on your Google Sheet titled “Form Responses.”

Click on this new “Form Responses” tab and you should see this:
IV. Formatting the KSA Voting and Tabulation Functions

This section will focus on the formulas that will total the votes.

NOTE: You need to have someone cast test votes before you do your COUNTIF formulas. If you do the COUNTIFs first, when the first vote is cast, the lines will be shifted down and create errors in your formulas.

Each BILT voting response (including any test voting you may schedule) from the Google form will auto-populate the “Form Response” spreadsheet rows one by one, starting at the top. This means you must allow for plenty of room for the responses when you create your totals table. Remember also that if you’re asking BILT members to vote on multiple sections of the KSA list (i.e. first let’s vote on the Ks, then later let’s vote on the Ss), each vote will fill a row on the “Form Response” spreadsheet.

In other words, before creating your totals table, scroll far down the spreadsheet. Leave yourself more rows empty than you think you’ll need to conduct all of the voting. The CTC recommends 250 rows.

Scroll down to line 250 to create your total table. In column A 250 – A 253, enter numbers 4 -1.

In cell B250 use the below formula total just the “4” votes in that column:

=COUNTIF(B2:B249, 4)

You will use a similar formula in B251, B252, and B253, but change out the “4” to a “3” and so on. Then follow the same steps to tally the votes in the “C” column. Be careful trying to drag formulas: they do not carry over well and will leave out some cells.

As you begin this process, your Google Sheet should look something like this:
Put another way, your totals table looks like this:

<table>
<thead>
<tr>
<th>Auto Timestamp</th>
<th>Form question 1</th>
<th>Form question 2</th>
<th>Form question 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All of these 249 rows you keep empty for now, leaving room for the form voting results.

4 Total of 4 votes from question 1 (COUNTIF formula)
Total of 4 votes from question 2 (COUNTIF formula)
Total of 4 votes from question 3 (COUNTIF formula)

3 Total of 3 votes from question 1 (COUNTIF formula)
Total of 3 votes from question 2 (COUNTIF formula)
Total of 3 votes from question 3 (COUNTIF formula)

2 Total of 2 votes from question 1 (COUNTIF formula)
Total of 2 votes from question 2 (COUNTIF formula)
Total of 2 votes from question 3 (COUNTIF formula)

1 Total of 2 votes from question 1 (COUNTIF formula)
Total of 2 votes from question 2 (COUNTIF formula)
Total of 2 votes from question 3 (COUNTIF formula)

Now you need to link the voting totals for each KSA from the “Form Response” tab to the appropriate cells in the “Sheet 1” tab. (Remember you already corrected the average formula – once the numbers still filling the cells, the average should calculate automatically.)

Go to the “Sheet 1” tab in your “Infrastructure KSAs” Google spreadsheet.

In this example, click cell C4 and enter the equals sign, then click over to the “Form Responses” tab and click on cell B250 and hit enter. You will do the same for that row all the way through, linking each voting results cell in the “Sheet 1” spreadsheet tab to the corresponding cell in the “Form Responses” spreadsheet tab.

When you are finished it should look like the screenshot below. Note: you must manually link each cell – the little blue square shortcut will not work to copy/drag formulas across cell.
V. Testing the Form

Now you are ready to have someone test the Google form. **Thorough testing is strongly encouraged before you use the Google voting system with your BILT.**

Go up to the tabs in your web browser and click on Google Form:

Click on the purple send button at the top right of the screen:
Click on the icon that looks like a chain. That will create a link to this form (under that link is a box you can click to shorten the URL).

Send that form link URL to someone else and use it in a new browser and complete the Google Form yourself:
Now go back to your “Infrastructure KSAs” Google Sheet:

Make sure you are on your “Form Response” tab. If you did your COUNTIF formula correct, the votes should start to be counted. You should see something like this (we have received one “3” vote for column “B”):
The tally total that you did on the “Form Response” tab should be reflected when you flip to your “Sheet 1” tab. You should see that one “3” vote in the proper row and averaged:

If that is reflecting correctly, then congratulations - you have finished!

If the numbers don’t look right, recheck your formulas on both tabs until it reflects the proper number. Unintentional formula errors can be common with this sort of system.

** NOTE: If your BILT elects to conduct a revote of one of the KSAs, do not use the Google form. Any re-voting should happen in the room with hand-counting and a manual adjustment of the KSA spreadsheet. Remember that the Google sheet records every vote – if a BILT member votes twice, both votes will be recorded and affect your average.

Other BILT and KSA resources

60-minute “BILT Basics” webinar
http://bit.ly/BILTbasic

16-page PDF “Implementing the BILT Model of Business Engagement” toolkit

10-minute “Your Annual Job Skills Validation Vote” webinar