GROUP ELICITATION DOCUMENT

Version 2.0
01 October 2017
Group Members: Ramon Baiao
Peter Ogedegbe
Manjinder Kaur
Dharminder Singh

ELICITATION DESIGN DOCUMENT

OBJECTIVE

This document contains instructions that must be followed to recreate the Spaghetti Analysis Exercise 3.

DATA WILL BE COLLECTED AS FOLLOWS:

- Measuring the distance Augustus and Cindy makes from their individual assembly lines to each of specific shelf row and bay areas where they pick components.
- Making use of the length tool using Meters as our unit.
- Measure to the 'center' of each bay for each complete pick (green dot at the center of the bay).
- Record distance in meters.
- Total working time (minutes and seconds) in a day.
- Number of complete picks on a working day.
- Recording and storing our data in Excel.

APPROACH

- All members should be using the Visio file that contains the designed path with the walkable area (Figure 1).
- Their exact location has been marked on the VISIO diagram "BP - Exercise #3 - Spaghetti Defined Path.vsdx".
- Within the green dotted lines, it is 'walkable' area, creating a grid.
- All measurements and path should be used the Visio Measurement Tool (Figure 2).

- All measurements will be performed within this grid.
- There will be no deviation from the outlined grid.
- Should be used the logical and closest path.
- Measure to the ‘center’ of each bay for each complete pick (green dot at the center of the bay).
- The paths for each champion are listed on “BP - Exercise #3 Spaghetti Analysis.docx”.

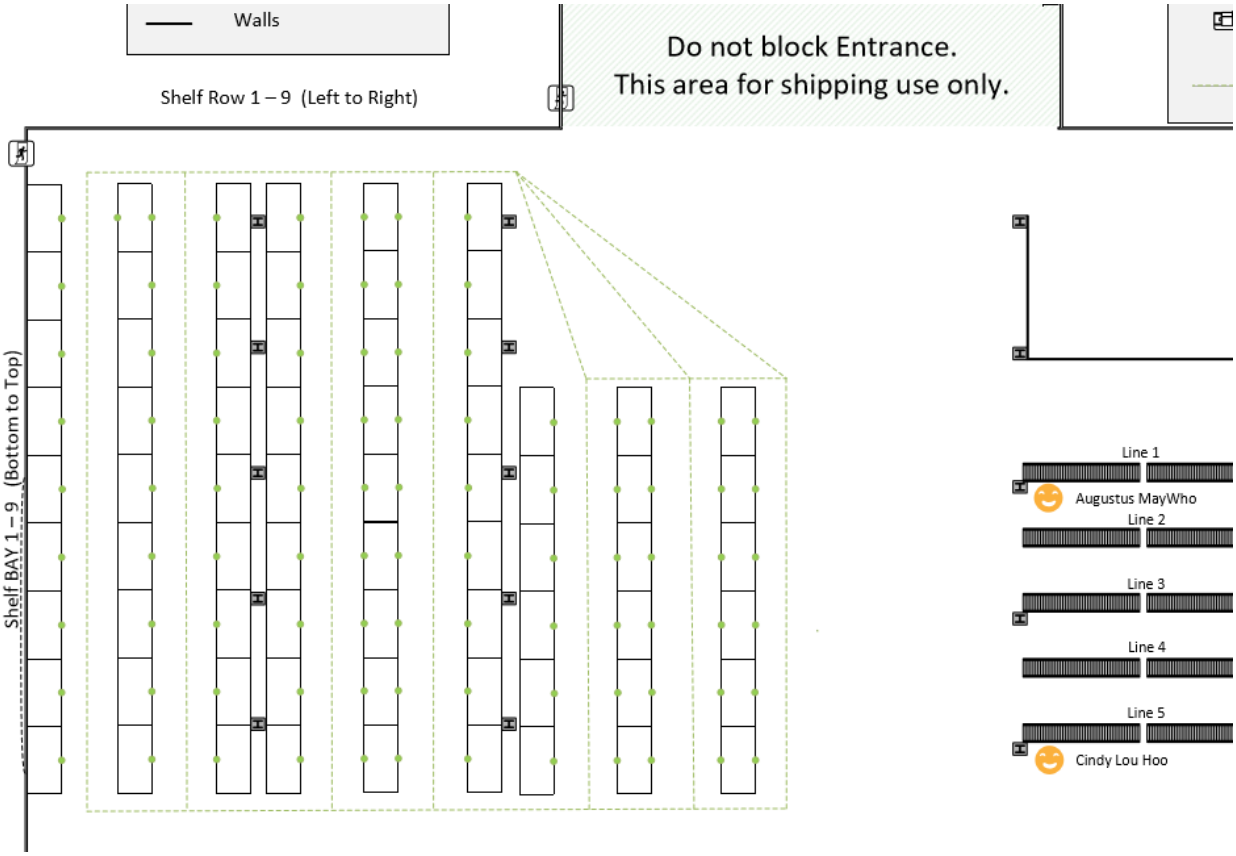

Figure 1

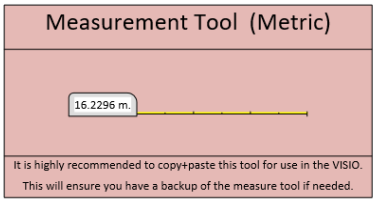

Figure 2

CALCULATIONS

- Convert speed from km/h to m/min
- Time=Distance/Speed
- Total time to complete one pick is calculated in minutes:seconds
- Convert Working hours in 1 day into minutes in 1 day
- Total number of picks in 1 day= Working minutes in 1 day/total time to complete 1 pick

CONSTRAINTS

- Overburdened Walk Speed – When the champion is carrying on object that is too heavy.
- If no constraint has been stated then there are no constraints on that specific item. These items can be picked at the same time, if they are sequentially ordered.

REFERENCE DOCUMENTS:

1. BP - Exercise #3 Spaghetti Analysis.docx
2. BP - Exercise #3 - Spaghetti Defined Path.vsdx