

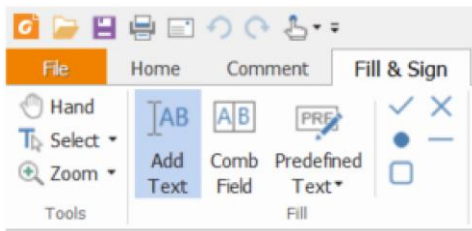
PCS 301 - PCS & Process Health Assessment in ATTD/ATM

Homework 2

Name	
Employee ID	
Date	
Department	

Instructions:

1. Please use the space provided to write down all the answers and pasting JMP screenshots. Use “Fill and Sign < Add text” in Acrobat Reader to add text to the fields. You can directly paste images in the space provided (after unselecting the Add Text) and then adjust the size to fit the space.



2. If there is a need for re-analysis (typically done due to exclusion of outliers), please use the Extra Space Section found in the last page of this document to include the initial outputs.
3. Save the file as .pdf (PDF format) and send out via email to the instructor.
4. The email should be titled [subject] “ PCS 301 – Homework 2”. Copy and paste this title to avoid any typos.
5. Feedback will be provided as comments in the pdf itself and will be asked to resubmit with corrections (if required).
6. Please DO NOT send the homework in any other format else your homework will NOT be graded and sent back.

Homework#2:

Your task is to set control limits for this process and assess the capability.

- Flux Thickness
 - Response: Flux thickness
 - Tools: 1 tool in TD
 - Sampling Plan: 4 tray positions per run
 - Target: 0.75 mils
 - Spec Limits: 0.5 - 1.0 mils

Dataset: Flux Thickness.jmp

Location: JMP SOS → Sample Data Set Index → PCS 301 Datasets → Homework

I - Setting Control Limits:

For the \bar{X} Chart:

Paste your Variability Chart & \bar{X} Control Chart here:

- What limits would you propose for the \bar{X} Chart?

- Describe the nature of instability, if any.

- What % OOC rate would be predicted if these \bar{X} Chart limits were implemented?

For the S Chart:

Paste your Sigma Control Chart here:

- What limits would you propose for the sigma charts?

- Describe the nature of instability, if any.

- What % OOC rate would be predicted if these sigma chart limits were implemented?

II - Process Capability Assessment:

Paste your Process Capability Analysis here:

- Is the process capable?

- Where would you focus engineering activity to improve capability?

Extra space for additional information (if needed):

