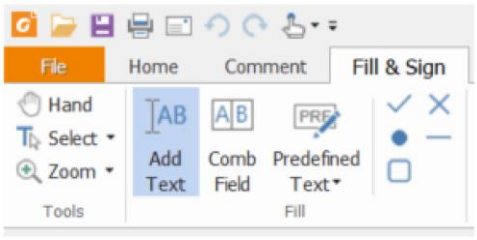
PCS 301 - PCS & Process Health Assessment in ATTD/ATM

Homework 3

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 3”. 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#3:

1. Analyze the Epoxy Dispense data and assess the following:

   - Stability
   - Tool Matching
   - Capability

   Epoxy Dispense

   - Response: Preheat Temp
   - Tools: 2 tools at TD
   - Sampling Plan: 12 TC locations per run
   - Target: 115 C
   - Spec Limits: 110 – 120 C
   - Control Limits:

Chart Type	LCL	CL	UCL
Means	112	115	118
Std Dev	N/A	1.2	2.1

   Dataset: Preheat.jmp

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

   Note: Serial # of the TC boat was also recorded

2. Make an engineering report tying in the analysis with conclusions and recommendations.

I – Stability Assessment:

Stability Analysis Report:

Paste your Stability Analysis Summary Report here:

Paste the Stability Analysis for Entity C EYD 07 (includes Variability Chart, Control Chart, OOC Report and Indicator Report).

Paste the Stability Analysis for Entity C EYD 08 (includes Variability Chart, Control Chart, OOC Report and Indicator Report).

Stability Analysis Interpretation

II – Tool Matching Assessment:

Tool Matching Analysis Report:

Paste your Tool Matching Analysis Summary Report here

Paste your Tool Matching Variability Analysis Report for the Means here:

Paste your Tool Matching Variability Analysis Report for the Std Dev here:

Tool Matching Analysis Interpretation

III – Capability Assessment:

Capability Analysis Report

Paste your Capability Analysis here

Capability Analysis Interpretation

Action Plans / Conclusion & Recommendation

Extra space for additional information (if needed):