

Exploratory Data Analysis

Exit activity

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Contents


Search

Question

Histograms 4:10

Question

 Demo: Creating Histograms in JMP 4:21

 Demo: Saving Your Work Using Scripts 1:42

The Chemical Manufacturing Case Study 0:39


Practice: Understanding Yield for a Chemical Manufacturing Process

The White Polymer Case Study 1:02

Practice: Exploring the Relationship Between Variables

Measures of Central Tendency and Location 6:18

Practice: Checking for Normality



1. Open the file **Temperature.jmp**. This data set has 100 temperature readings for tools in a machining process. The temperature is tightly controlled. For this process, ideal operating ranges are 50 to 55 degrees F.

2. Create a histogram and a normal quantile plot for these data using the **Distribution** platform. What do you observe?

There is one extreme point that makes the distribution appear non-normal. The line in the normal quantile plot is tilted off the diagonal, and this one extreme point is far from the others.

3. Hide and exclude the one extreme outlier, and then re-run the analysis. What do you observe? Do the data appear to be approximately normal?

To hide and exclude an observation, click on the point in the box plot or in the normal quantile plot and select **Hide and Exclude** from the **Rows** menu. Then click on the top red triangle and select **Redo** and then **Redo Analysis**. The data appear to be approximately normal.

Hide Solution

ejmpst02_2_p1

Text Version

This is not a video. See the main content area.

Navigation

- [Back to the Main Page](#)
- [Help and FAQs](#)
- [Evaluation Form](#)

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