



Histogram

? What is It

The **frequency chart** and **histogram** are pictures of **variation**. The frequency chart displays the variation in a **set of count data**; the products/services variation is the **"Voice of the Process."**

🕒 When

- Identify **areas for improvement**.
- To **stratify** processes we want to examine closer.
- Used in the **Analyze** phase of the **DMAIC**.

🎯 Goals

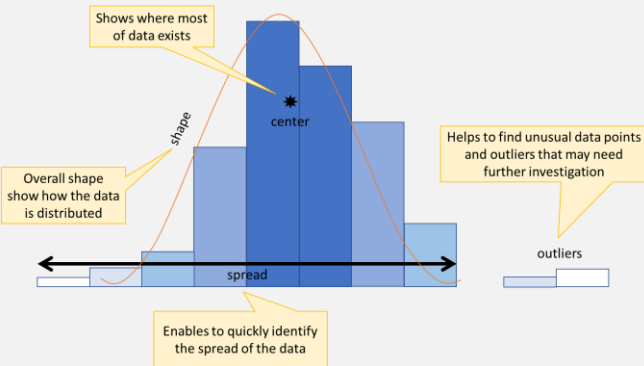
- Display Variation with a data-driven statistical tool to **understand the distribution of variation**.
- Identify the **"spread"** of the process variation.

📊 How

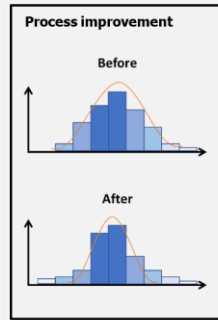
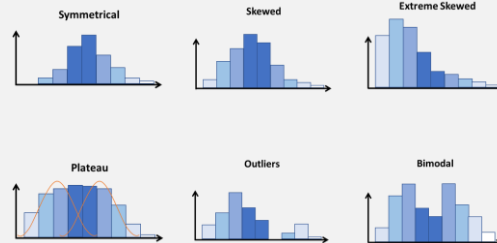
Steps:



Histogram Anatomy:



Shapes that show indication of something odd in either the data or the process.



💡 Hints

- This is a valuable **statistical tool** to understand **process variability**.
- Combine it with **Capability Studies** to understand if the process is in control and inside the quality specifications.
- The tool can let **visualize** the Before and After Improvement understandably for any reader.

📄 Example

