

PARETO ANALYSIS

PRIORITIZE THE VITAL FEW CAUSES

Pareto Analysis is a technique used to identify and prioritize the most significant factors contributing to a problem. Based on the Pareto Principle, it emphasizes focusing on the "vital few" rather than the "trivial many."

THE 80/20 RULE

20% of the causes result in
80% of the problems.

- 1 COLLECT DATA**
Gather data on problem occurrences or defect types.
- 2 CATEGORIZE**
Group the collected data into relevant categories.
- 3 RANK**
Arrange the categories from highest to lowest frequency or impact.
- 4 PLOT**
Create a Pareto Chart showing categories as bars and cumulative line.
- 5 ANALYZE**
Identify the "vital few" causes contributing the most to problem.

WHEN TO USE

- ✓ To prioritize improvement efforts.
- ✓ During Analyze phase of DMAIC
- ✓ When many issues or defect types

ONE-LINE SUMMARY



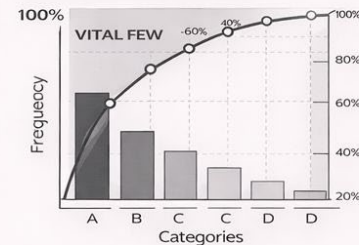
Pareto Analysis helps focus improvement efforts on the 'vital few' causes that have the greatest impact on the problem.



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PARETO CHART

- Bars: Frequency or impact of each category.
- Line: Cumulative percentage



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STRENGTHS

- ✓ Simple and easy to use
- ✓ Strong visual impact
- ✓ Focuses effort on key issues

LIMITATIONS

- ⚠ Requires accurate and complete data.
- ⚠ Doesn't identify root causes by itself.
- ⚠ Can be misleading if categories are poorly defined