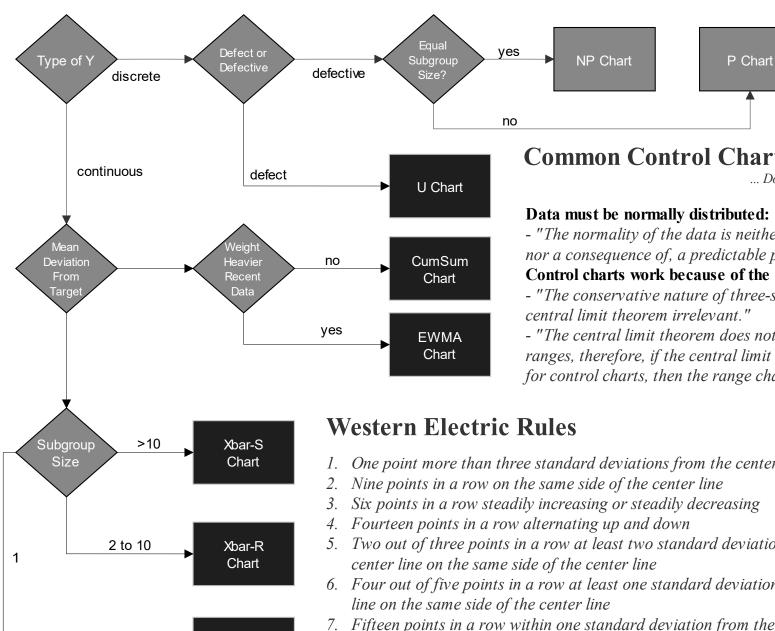


Control Charts Roadmap



I-MR

Chart

Common Control Chart Myths

... Donald Wheeler

Data must be normally distributed:

- "The normality of the data is neither a prerequisite for, nor a consequence of, a predictable process."

Control charts work because of the central limit theorem:

- "The conservative nature of three-sigma limits makes the central limit theorem irrelevant."
- "The central limit theorem does not apply to subgroup ranges, therefore, if the central limit theorem were the basis for control charts, then the range chart would not work."
- One point more than three standard deviations from the center line
- Six points in a row steadily increasing or steadily decreasing
- 5. Two out of three points in a row at least two standard deviations from the
- 6. Four out of five points in a row at least one standard deviation from the center
- 7. Fifteen points in a row within one standard deviation from the center line on either side of the center line
- 8. Eight points in a row beyond one standard deviation from the center line on either side of the center line