

Real World Statistics: What to Do When It's Not a Bell Curve

April

04

2017

10:00 AM PST | 01:00 PM EST

Duration: 60 Minutes

Instructor: William Levinson

[Registration](#)

Overview:

Statistical textbooks, manuals, and even most software rely on the assumption that processes conform to the normal or bell curve distribution.

Areas Covered in the Session:

- Know when the distribution might be non-normal. Processes with unilateral specification limits at one end and physical limits at the other-e.g. an upper specification limit for an impurity and the fact that it is impossible to get less than zero impurities-often signifies that the distribution will not be a bell curve.
- SPC charts can be created that work properly for non-normal distributions and have the same false alarm risk as the traditional Shewhart chart for a normal distribution.
- Process performance indices can be calculated that reflect accurately the nonconforming fraction (or defects per million opportunities) for non-normal distributions.

Who Will Benefit:

- Manufacturing
- Quality Engineers
- Managers

About Speaker:

William Levinson

President, Levinson Productivity Systems, P.C.

William Levinson, is the principal of Levinson Productivity Systems, P.C. He is an ASQ Fellow, Certified Quality Engineer, Quality Auditor, Quality Manager, Reliability Engineer, and Six Sigma Black Belt. He holds degrees in chemistry and chemical engineering from Penn State and Cornell Universities, and night school degrees in business administration and applied statistics from Union College, and he has given presentations at the ASQ World Conference, TOC World 2004, and other national conferences on productivity and quality...[more](#)

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