

**Development of the statistical process control methods**

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Statistical process control represents a statistical procedure using control charts to examine if any part of production process is not functioning properly and could cause poor quality. Process control is achieved by taking periodic sample from the production process and plotting these sample points on a chart, to see if the process is within statistical control limits. Statistical process control prevents quality problems by correcting the process before it starts producing defects. This paper encompasses an application of statistical process control methods with numerous modifications in order to make possible appropriate process quality improvement of the soft drink production line via detecting out-of-control process or unusual patterns in a sample. Used methods corresponding with the total quality management require a never-ending process of continuous improvement that covers people, equipment, suppliers, materials and procedure. The goal is perfection, which is never achieved, but always sought.

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