Statistical Process Control (SPC)

Training Overview:

This Statistical Process Control (SPC) course equips participants with the skills to monitor and control processes using data to reduce variation and prevent defects. Participants learn how to use control charts and statistical methods to identify issues and maintain stable process performance.

Through hands-on exercises and real-world application, participants select appropriate charts, interpret signals, and take corrective action. The course emphasizes measurable impact, including reduced scrap and rework, improved productivity, and stronger process control.

Training Objectives:

- Define SPC and its role in process control
- Differentiate between common cause and special cause variation
- Select appropriate control charts for variable and attribute data
- Establish control limits and interpret chart signals
- Monitor process stability and capability
- Identify variation and take corrective action
- Quantify savings from reduced scrap, rework, and downtime
- Connect SPC results to operational and financial performance
- Use SPC to support continuous improvement initiatives
- Sustain long-term process control and stability

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