Process capability — 128 points and three costed plans

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Calculated continuously, no longer twice a year on 22 points · fictional document

Fictional document — demonstration example

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Fictional document, produced for the demonstration. **Process capability measures how well a process holds its range:** it compares the real spread of the parts produced with the width of the permitted range. The threshold used is the one set by the plant's quality department.

The state of the 128 points

Situation	Points	Distribution
Above the threshold used	**125**	All four presses
Below the threshold	**3**	**All three on press 1**

The three points below, and what has already been done

Point	Cause identified	Action	Measured result
Two pressure points	**Same injection screw**	**Valve replaced on the 14th**	**Back above the threshold within 9 days**
One melt temperature point	**Hopper control loop**	**Two costed routes: retune the loop, or replace the probe at €340**	**For the production manager to settle**

What continuous calculation changes

Measure	Before	After
Points covered	22	**128**
Frequency	**Twice a year, by hand**	**Continuous**
Availability for a customer	To be prepared	**On the date of their choosing, readings behind it**

Why this is a renewal argument: customers demand this measure in the contract. **Producing it across 128 points, on the date of their choosing and with the readings behind it, puts the plant in a position a competitor cannot hold with a spreadsheet.**

The handover to the quality follow-up agent

Step of a non-conformity	Who runs it	What is already ready
Assembling the measurement file	**The supervision agent**	**Complete, time-stamped, with the range applied**
Root-cause analysis	The quality department	The comparable cases and their recorded causes

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Step of a non-conformity	Who runs it	What is already ready
Effectiveness check	The quality department	**The return-to-target measurement, continuously**

For the quality department to settle: route chosen for the third point (retune the loop or replace the probe): _____

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