Six sigma very basic concise explanation and use of it

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Six Sigma method

- Motorola 1985
- Use in order to produce better products nad less problem processes
- PPM- parts per million ->4,4 defects /million opportunities
- Six-Sigma-DMAIC methodology



Where Six Sigma method can be applied



Normal distribution



<u>Normal distribution</u> curve that illustrates <u>standard deviations</u>. Each band has **1** standard deviation, and the labels indicate the approximate proportion of area (note: these add up to 99.8%, and not 100% due to rounding for presentation.)

SIX SIGMA Statistical background

Some Key measure



'Control' limits









Ppm= parts per million



- Six-Sigma allows for un-foreseen 'problems' and longer term issues when calculating failure error or re-work rates
- Allows for a process 'shift' (1,5 σ)



Performance Standards

