



Six Sigma Black Belt Certificate

Awarded to

Goetz Mueller

This certificate acknowledges the completion of the Ericsson Six Sigma Black Belt Education and Training Program, including a successfully finished homework assignment.

October 20th, 2008

Ericsson Six Sigma Training Manager



**The Black Belt training extends over a period of 6-9 months
and includes 20 classroom days of:**

- The Six Sigma approach for reduction of cost of poor quality, COPQ.
- Quality as a theory of variation management.
- Teambuilding and change management
- Design for Six Sigma, robust engineering and tolerancing.
- Rolled-through yield, first-pass yield and normalised yield.
- Continuous and discrete data (variable and attribute data).
- Basic Statistics: Mean value, standard deviation, normal distribution, poisson and binomial distribution.
- Process capability and performance indices, Cp, Cpk, DPU, DPMO, Sigma values, shift and drift.
- Hypothesis testing: T-test, F-test, ANOVA, binomial proportion, Chi-square and confidence interval.
- Regression and correlation analysis.
- Design of experiment, DOE.
- Statistical Process Control, SPC.
- Aspects of robust design and tolerancing.
- Application in MINITAB™ and SimFactory software.