Contents of the
Six Sigma Black Belt Training

Duration 12* days

*) based on the 8-day Green Belt Training

Training Block 1 (4 days):

- Review of the most important Six Sigma tools from the Green Belt Training
- Stakeholder analysis
- Dealing with non-normally distributed data
- Repetition and addition of hypothesis testing and sample size
- Minitab® consolidation
- Analysis of variance (ANOVA)
- Sample Size ANOVA
- Multiple Regression
- Exercises
- Project reviews

Training Block 2 (4 days):

- Statistical Circle
- Introduction to Design of Experiments (DOE)
- Full factorial designs
- 2k-factorial designs
- Partial factorial designs
- Sample size for DOE
- Analysis of covariance, dealing with disturbance variables
- Stepwise Regression
- Guideline Design of Experiments
- Project reviews

Training Block 3 (4 days):

- DOE exercises
- Response Surface Design
- DOE for variation analysis
- Evolutionary Operation (EVOP)
- Logistic Regression
- Data Mining / CART
- Lifetime analysis, Weibull distribution
- Tolerance analysis, simulation
- Catapult exercise
- Project reviews