CERTIFIED - 8 Days

Six Sigma Combo Belt Bootcamp

SSCD: Six Sigma College Düsseldorf

	09.00 - 12.00	12.00 - 13.00	13.00 - 17.00 (19.00)
Day 1	• **Introduction** and expectations of the participants • Introduction to the Six Sigma concept • **Fundamental terms in the Six Sigma context** • Description of the Six Sigma levels: Leadership, Project Management, Toolbox, Statistics		• **Process D-M-A-I-C** • **Roles** in Six Sigma projects • Understanding the project management dimensions of Six Sigma, link to business and operational excellence functions. • **D-M-A-I-C 1** **Define phase** in detail: Project Charter, VOC, Problem & Target Definition, Project Management, cost-benefit analysis • **Q&A Session** – Summary & clarification of questions
Day 2	• **Recap** of the first day and clarification of essential basics • **D-M-A-I-C 2** **Measure phase in detail:** Swim-Lane, Value Stream Mapping, Makigami - What does process management look like in companies? What are levels?		• **D-M-A-I-C 3** **Analyze phase in detail:** Analyze cause-and-effect relationships Risk analysis FMEA, Ishikawa, SWOT **Interaction: Makigami** • **D-M-A-I-C 3** **Analyze phase in detail:** Risk analysis, FMEA, Ishikawa, 5x Why FMEA as risk analysis tool, SWOT • **Q&A Session** – Summary & clarification of questions **Interaction: Ishikawa**
Day 3	• **Recap** of the Define and Measure phase and clarification of essential basics • **D-M-A-I-C 4** **Improve phase in detail:** Design implementation and training plan, implement and follow up 5S in companies **Interaction: 5S**		• **D-M-A-I-C 5** **Control phase in detail:** Graphical data analysis (time series plots, Pareto, histogram, scatter plot, spaghetti diagram) Process control charts and standard procedures, go-live support • **Introduction to basic statistical terms:** Probability calculation, addition and multiplication theorem • **Q&A Session** – Summary & clarification of questions
Day 4	• **Recap** of the DMAIC cycle **Interaction** • **SSCD: ProcessSIM®** **Part 1:** Business game as a project replacement. Real business case. 1 month project is simulated in 1 hour real time.		**Interaction** • **SSCD: ProcessSIM®** **Part 2:** Business game as a project replacement. Real business case. 1 month project is simulated in 1 hour real time. **Green Belt Exam: 17.00 -19.00** • **2 hours, 20 questions** • **Feedback & Completion**

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Day 5	• **Introduction** and expectations of the participants • Introduction to the Six Sigma concept • **Discussion of the Six Sigma levels:** Leadership, project management, toolbox, statistics • **Overview D-M-A-I-C:** Procedure & Tools Project Charter, SIPOC		• **Overview D-M-A-I-C:** VOC, project management, value stream mapping, Makigami, Ishikawa, brainstorming, risk analysis • **Statistical tests I** Basics & hypothesis testing, (non) parameter tests • **Statistical tests I** One sample, tests for dispersion, independent samples, paired samples • **Q&A Session** – Summary & clarification of questions
Day 6	• **Recap** of the first day and clarification of essential basics • **Statistical tests II** Sign tests, independent & dependent samples (e.g. ANOVA), tests for dispersion **Interaction: Examples**		• **Team management and key figures** Team building, Team management, SMART goals **Interaction: Examples** • **Team management and key figures** Change management, Comfort zone • **Q&A Session** – Summary & clarification of questions
Day 7	• **Recap** of the second day and clarification of essential basics • **Statistical tests II** Tests for discrete characteristics, test for variances **Interaction: Group discussion**		• **Process capability analysis** Normally distributed, non-normally distributed and discrete characteristics • **Leadership**, cross-functional competences Pacing and leadership **Interaction: Discussion** • **Leadership, cross-functional competences** The change curve Change management in Six Sigma projects Feedback 2.0 • **Q&A Session** – Summary & clarification of questions
Day 8	• **Recap** of the third day and clarification of essential basics • **Statistical Tests III** Tests for discrete characteristics: Test of proportions, Chi square, Poisson **Interaction: Tasks in Minitab**		• **Leadership, cross-functional competences** The Six Sigma Board for team management conflicts, GROW Coaching, STAR-Method **Black Belt Exam: 17 – 19 :00** • **2 hours, 20 questions** • **Feedback & Completion**