ASQ® Certified Six Sigma Green & Black Belt

Time table for 12 days Green & Black Belt Combo

Day 1	Day 2	Day 3	Day 4
Introduction and expectations of **participants** Introduction into basic **Six Sigma concept** (organization & roles)	**Recap** of the first training day and discussion on fundamentals as well as basic terms	**Recap** of the Define- and Measure Phase and discussion on fundamentals as well as basic terms	**Recap** of the DMAIC cycle
Fundamental terms in the Six Sigma context Discussion of **Six Sigma levels:** Leadership, Project Management, Toolbox, Statistics **Interaction: Lean-Game** „Paper Aircraft Manufactering" *Feedback session*	**D-M-A-I-C 2** **Measure-Phase with approach and tools in detail** SIPOC, Swim-Lane, Value Stream Mapping, Makigami What is process management in enterprises? How is it structured? *Feedback session*	**D-M-A-I-C 4** **Improve-Phase with approach and tools in detail** Implementation- and training plan, conduct 5S events in companies and monitor those **Interaction: 5S Game** *Feedback session*	**SSCD: ProcessSIM®** **Part 1** Business game as project substitute. Real Business Case. 1 month is simulated on one hour of real time. *Feedback session*
Break			
Approach D-M-A-I-C Understanding of project management, dimensions of Six Sigma, relation of Business- and Operational Excellence function	**D-M-A-I-C 3** **Analyze-Phase with approach and tools in detail** Analyze cause-and-effect correlations, statistical analysis tools in Excel I (ANOVA, hypotheses tests) **Interaction: IS-data analysis (XLS)**	**D-M-A-I-C 5** **Control-Phase with approach and tools in detail** Overview, process control chart and standard procedures, Go-Live Support **Interaction: SHOULD-data analysis (XLS)**	**Interaction: SSCD: ProcessSIM®** **Part 2** Business game as project substitute. Real Business Case. 1 month is simulated on one hour of real time.
D-M-A-I-C 1 **Define-Phase with approach and tools in detail** Project Charter, VOC, Problem-& Target statement, Project Management, Cost-benefit analysis **Interaction: SIPOC**	**Analyze-Phase with approach and tools in detail** Risk Analysis FMEA, Ishikawa, 5x Why and the FMEA as Risk Analysis Tool, SWOT, Statistical Analysis Tools in Excel II (ANOVA, Hypotheses Tests) **Interaction: Ishikawa, 5x Why**	**D-M-A-I-C 5** **Control-Phase with approach and tools in detail** Graphical data analysis (time series diagram, Pareto, histogram, scatter plot, spaghetti-diagram, other visual methods)	**Interaction: SSCD: ProcessSIM®** **Part 3** Presentation of summarized results and discussion on consulting solution for business game.
Q&A Session – Summary and discussion on open questions *Feedback session*	Q&A Session – Summary and discussion on open questions *Feedback session*	Q&A Session – Summary and discussion on open questions *Feedback session*	Q&A Session – Summary and discussion on open questions *Feedback session*

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Day 5	Day 6	Day 7	Day 8
Recap DMAIC with its approach and tools and the Planning game ProcessSIM®	**Recap** of the Fundamentals of Statistics	Introduction and expectations of **participants** Introduction into basic **Six Sigma concept** (organization & roles)	**Recap** of the seventh training day and clarification of essential basics
Fundamentals of Statistics Introduction to general statistical terms, scale levels, probability distributions, addition- and multiplication theorem **Interaction: Application in XLS**	**Fundamentals of Statistics** Basics and models of statistical capability Interpretation of capability indices **Interaction: Capability** *Feedback session*	**Fundamental terms** in the Six Sigma context Discussion of the Six Sigma levels: Leadership, Project Management, Toolbox, Statistics *Feedback session*	**Management & organisation I** Change-Management, Six Sigma Board, Feedback *Feedback session*

Break

Day 5	Day 6	Day 7	Day 8
Fundamentals of Statistics Discrete and continuous distribution (POI, HYP, NORM, etc.) **Interaction: Application of statistical distributions**	**Fundamentals of Statistics** **Interaction: Exercises in Excel to determine capability indices.** Q&A Session - Summary and clarification of open questions about the entire course	**Overview D-M-A-I-C: Procedure & Tools** Project Charter, SIPOC, VOC, Projekt management **Interaction: SIPOC**	**Management & organisation II** Deployment of Six Sigma
Fundamentals of Statistics Summary of statistical tests and general terms for further analyses (e.g. confidence interval, hypotheses and significance level) **Interaction: Application of statistical distributions**	**Examination** Duration of examination 2 hours 20 questions	**Overview D-M-A-I-C: Procedure & Tools** Value Stream Mapping, Makigami, Ishikawa, Brainstorming, FMEA, final project report	**Management & Organisation II** Deployment of Six Sigma
Q&A Session – Summary and discussion on open questions *Feedback session*	Q&A Session – **Hand out of certificates** *Feedback session*	Q&A Session – Summary and discussion on open questions *Feedback session*	Q&A Session – Summary and discussion on open questions *Feedback session*

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Time table for 12 days Green & Black Belt Combo

Day 9	Day 10	Day 11	Day 12
Recap of managements and deployments of Six Sigma	**Recap** of statistical tests for normally distributed characteristics	**Recap** of the tenth training day	**Repetition individual priorities**
Correlation & Regression Correlation analysis, linear regression analysis, logistic regression analysis	**Basics Statistics & Probabilities** Introduction to basic concepts, scale levels, probabilities, distribution models, sigma level calculation	**Statistical tests II** Basics, parameter tests, adaptation tests, Tests for Non-Normally Distributed Characteristics **Interaction: Tests for Non-Normally Distributed Characteristics**	**Design of Experiments** Practical examples and exercises **Interaction: Katapultversuch**
Feedback session	*Feedback session*	*Feedback session*	*Feedback session*

Break

Day 9	Day 10	Day 11	Day 12
Statistical tests I Basics, parameter tests, adaptation tests, tests for normally distributed characteristics **Interaction: Tests for Normally Distributed Characteristics**	**Basics Statistics & Probabilities** Distributions and Minitab **Interaction: Application of distributions (e.g. Binomial) and introduction to Minitab**	**Statistical tests III** Tests for Discrete Characteristics	**Examination** Duration of examination 2 hours 20 questions
Statistical tests I Basics, parameter tests, adaptation tests, tests for normally distributed characteristics **Interaction: Tests for Normally Distributed Characteristics**	**Process capability analysis** Normally distributed, non-normally distributed and discrete features **Interaction: Application of statistical distributions**	**Statistical tests III** Tests for Discrete Characteristics **Interaction: Tests for Non-Normally Distributed Characteristics**	**Conclusion** of the training course and **clarification of open questions** on the further application of the learning contents
Q&A Session – Summary and discussion on open questions	Q&A Session – Summary and discussion on open questions	Q&A Session – Summary and discussion on open questions	Q&A Session – **Hand out of certificates**
Feedback session	*Feedback session*	*Feedback session*	*Feedback session*

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