

Certified Six Sigma Green & Black Belt according to ASQ Six Sigma Body of Knowledge

Time table for 12 days Green & Black Belt Combo

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

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Day 5	Day 6	Day 7	Day 8
<p>Recap DMAIC with its approach and tools and the Planning game ProcessSIM®</p> <hr/> <p>Fundamentals of Statistics</p> <p>Introduction to general statistical terms, scale levels, probability distributions, addition- and multiplication theorem</p> <p>Interaction: Application in XLS</p>	<p>Recap of the Fundamentals of Statistics</p> <hr/> <p>Fundamentals of Statistics</p> <p>Basics and models of statistical capability Interpretation of capability indices</p> <p>Interaction: Capability</p> <p><i>Feedback session</i></p>	<p>Introduction and expectations of participants</p> <p>Introduction into basic Six Sigma concept (organization & roles)</p> <hr/> <p>Fundamental terms in the Six Sigma context</p> <p>Discussion of the Six Sigma levels: Leadership, Project Management, Toolbox, Statistics</p> <p><i>Feedback session</i></p>	<p>Recap of the seventh training day and clarification of essential basics</p> <hr/> <p>Management & organisation I</p> <p>Change-Management, Six Sigma Board, Feedback</p> <p><i>Feedback session</i></p>
Break			
<p>Fundamentals of Statistics</p> <p>Discrete and continuous distribution (POI, HYP, NORM, etc.)</p> <p>Interaction: Application of statistical distributions</p>	<p>Fundamentals of Statistics</p> <p>Interaction: Exercises in Excel to determine capability indices.</p> <p>Q&A Session - Summary and clarification of open questions about the entire course</p>	<p>Overview D-M-A-I-C: Procedure & Tools</p> <p>Project Charter, SIPOC, VOC, Projekt management</p> <p>Interaction: SIPOC</p>	<p>Management & organisation II</p> <p>Deployment of Six Sigma</p>
<p>Fundamentals of Statistics</p> <p>Summary of statistical tests and general terms for further analyses (e.g. confidence interval, hypotheses and significance level)</p> <p>Interaction: Application of statistical distributions</p>	<p>Examination</p> <p>Duration of examination 2 hours 20 questions</p>	<p>Overview D-M-A-I-C: Procedure & Tools</p> <p>Value Stream Mapping, Makigami, Ishikawa, Brainstorming, FMEA, final project report</p>	<p>Management & Organisation II</p> <p>Deployment of Six Sigma</p>
<p>Q&A Session – Summary and discussion on open questions</p> <p><i>Feedback session</i></p>	<p>Q&A Session – Hand out of certificates</p> <p><i>Feedback session</i></p>	<p>Q&A Session – Summary and discussion on open questions</p> <p><i>Feedback session</i></p>	<p>Q&A Session – Summary and discussion on open questions</p> <p><i>Feedback session</i></p>

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Day 9	Day 10	Day 11	Day 12
<p>Recap of managements and deployments of Six Sigma</p> <hr/> <p>Correlation & Regression Correlation analysis, linear regression analysis, logistic regression analysis</p> <p style="text-align: right;"><i>Feedback session</i></p>	<p>Recap of statistical tests for normally distributed characteristics</p> <hr/> <p>Basics Statistics & Probabilities Introduction to basic concepts, scale levels, probabilities, distribution models, sigma level calculation</p> <p style="text-align: right;"><i>Feedback session</i></p>	<p>Recap of the tenth training day</p> <hr/> <p>Statistical tests II Basics, parameter tests, adaptation tests, Tests for Non-Normally Distributed Characteristics Interaction: Tests for Non-Normally Distributed Characteristics</p> <p style="text-align: right;"><i>Feedback session</i></p>	<p>Repetition individual priorities</p> <hr/> <p>Design of Experiments Practical examples and exercises Interaction: Katapultversuch</p> <p style="text-align: right;"><i>Feedback session</i></p>
Break			
<p>Statistical tests I Basics, parameter tests, adaptation tests, tests for normally distributed characteristics Interaction: Tests for Normally Distributed Characteristics</p> <hr/> <p>Statistical tests I Basics, parameter tests, adaptation tests, tests for normally distributed characteristics Interaction: Tests for Normally Distributed Characteristics</p> <p>Q&A Session – Summary and discussion on open questions</p> <p style="text-align: right;"><i>Feedback session</i></p>	<p>Basics Statistics & Probabilities Distributions and Minitab Interaction: Application of distributions (e.g. Binomial) and introduction to Minitab</p> <hr/> <p>Process capability analysis Normally distributed, non-normally distributed and discrete features Interaction: Application of statistical distributions</p> <p>Q&A Session – Summary and discussion on open questions</p> <p style="text-align: right;"><i>Feedback session</i></p>	<p>Statistical tests III Tests for Discrete Characteristics</p> <hr/> <p>Statistical tests III Tests for Discrete Characteristics Interaction: Tests for Non-Normally Distributed Characteristics</p> <p>Q&A Session – Summary and discussion on open questions</p> <p style="text-align: right;"><i>Feedback session</i></p>	<p>Examination Duration of examination 2 hours 20 questions</p> <hr/> <p>Conclusion of the training course and clarification of open questions on the further application of the learning contents</p> <p>Q&A Session – Hand out of certificates</p> <p style="text-align: right;"><i>Feedback session</i></p>