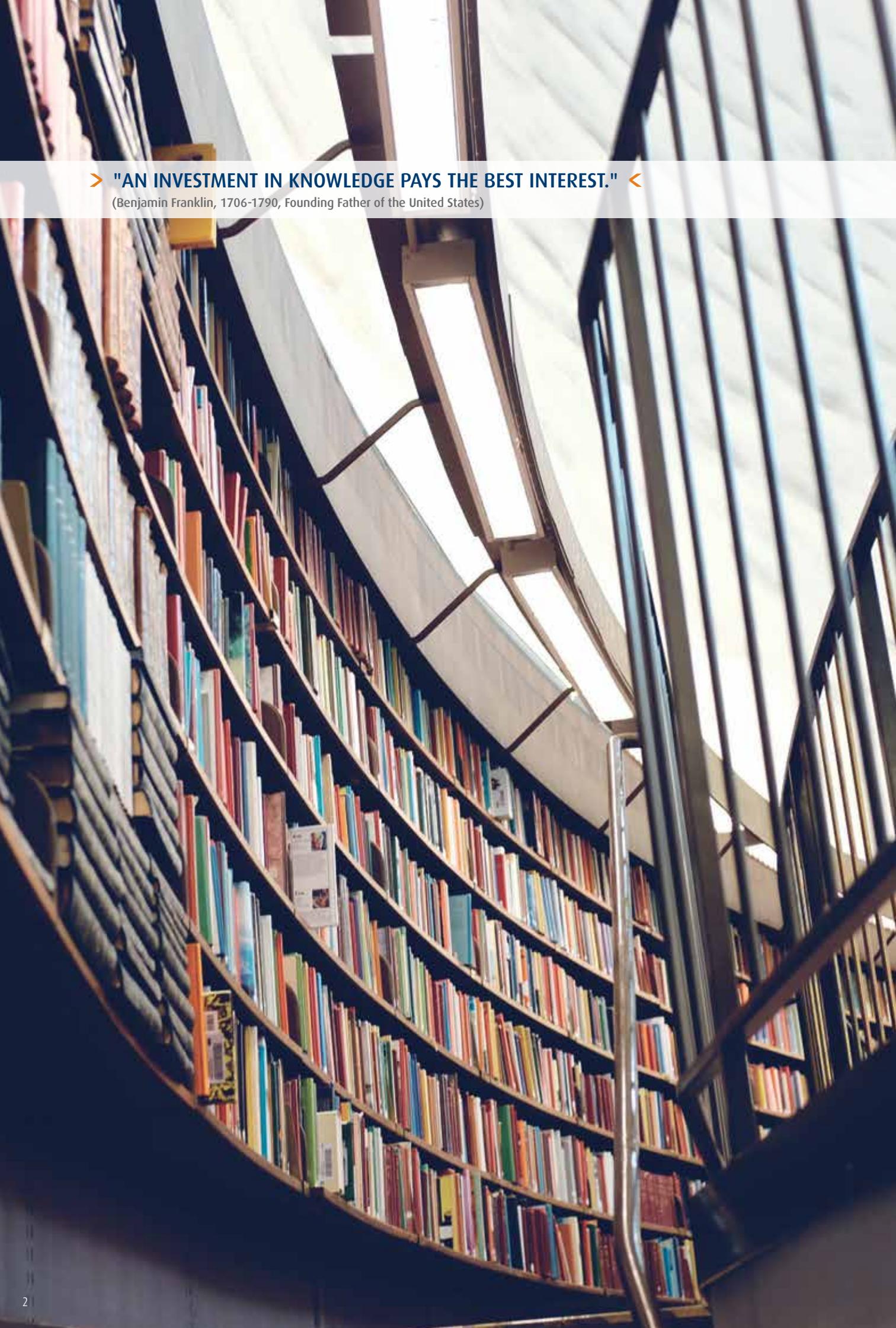




**MANAGING DEVELOPMENT PROCESSES EFFICIENTLY:
EXPERTISE ON SOFTWARE AND SYSTEMS ENGINEERING**

Seminars 2016/17



> **"AN INVESTMENT IN KNOWLEDGE PAYS THE BEST INTEREST."** <

(Benjamin Franklin, 1706-1790, Founding Father of the United States)

PRACTICAL TRAINING ON SOFTWARE & SYSTEMS ENGINEERING

DEAR READERS,

Knowledge is power. Knowledge is the intellectual capital of an organization and therefore one of its most important resources. Used properly, knowledge and experience can secure the future of people, businesses, societies, and economies.

Knowledge becomes out of date quickly, however, if it is not continuously updated and expanded. The willingness, interest, and ability of employees to undertake continuous and lifelong learning is therefore crucial to the success of a company.

Method Park offers a versatile course and training program on all aspects of Software & Systems Engineering: from requirements engineering through to testing, from process and project management for safety-related development through to introducing agile techniques.

The Method Park Training Center gives you a decisive competitive edge, while also providing impetus for the individual career path. But learning content and course topics cannot always be generically formulated. Organizations face unique demands, company-specific questions are asked that require separate answers, and knowledge must be practically relevant and tailored to individual needs. The Method Park Training Center provides you with this service.

At Method Park you have the opportunity to tailor public courses, trainings and workshops according to the needs of your company. In exclusive in-house training at your location, the Method Park coaches teach you and your team the knowledge and skills you need to master the tasks related to your next project or a pending tool-introduction.

Method Park courses are always practical and up to date. Method Park trainer simultaneously work as consultants and engineers. Thus they are in daily contact with customer projects and can bridge the gap between theory and practice.

Let us bring your knowledge up to date and keep you curious! The Method Park Training Center equips you for future challenges in Software & Systems Engineering and opens up new opportunities.

We look forward to working with you!



Klaudia Dussa-Zieger
Director Method Park Training Center





COMPACT KNOWLEDGE SHARED IN A PRACTICAL WAY

Get compact knowledge on the subject of software and systems engineering in public courses, in-house training, and workshops. Experienced trainers, with in-depth theoretical knowledge and years of practical experience in customer projects, deliver teaching materials with competence and responsiveness. You will benefit from lectures, discussions, and numerous exercises in which you exercise both theory and practice.

Through practical implementation of the knowledge gained, we are also happy to directly support you and your projects via workshops and consulting.

An immediately available, on-site consultant for individual in-house workshops or individual coaching for you and your team is also available for booking. For further assistance directly at your workplace, we also offer individual advice and support.

PUBLIC COURSES

Build your knowledge advantage in a pleasant atmosphere. Your course begins at 9:00 a.m. and ends typically around 5:00 p.m. To start the day, a cup of coffee or tea awaits you. At lunchtime, enjoy a menu from the buffet in our casino, or we'll invite you to a restaurant. You are welcome to request vegetarian or other dishes per dietary restrictions. During the day you will be pampered in the breaks with drinks and little treats. You will also receive detailed training materials at the beginning of each course, and on the last day a certificate confirming your successful participation. Take advantage of our course program to enhance your specific expertise, and make yourself at home!

Your benefits

- > Certified and internationally recognized training
- > Experienced trainers with years of theoretical and practical experience in customer projects
- > Trainers with advanced expertise from participation in international research projects
- > Individual and personal attention to wellbeing

General note

Prices and dates for the courses offered can be found on our enclosed leaflet. The course fee plus VAT includes the event-related course materials, lunch, hot and cold drinks during breaks, fruit, and pastries.

IN-HOUSE COURSES

Want course contents that are tailored to the individual needs of your business? Planning a further training measure for several of your employees? With five or more employees, it may be worthwhile for you to choose in-house training. Of course, we also organize courses of your choice directly at your site. That way, you save time by eliminating travel times and avoid accommodation costs for seminars lasting several days. And your course is precisely adapted to your company's specific needs.

We offer these personalized training programs at an interesting package price. Extend your software and systems engineering expertise with experienced and competent trainers directly in your company!

Your benefits

- > Time savings, since travel is eliminated
- > Cost savings for courses lasting several days, since there is no need for overnight accommodations
- > Cost savings through course package price
- > Individual course that is tailored to the needs of your business

If you have further questions about our courses, please do not hesitate to contact us.

Contact: Diana Jäger

Phone: +49 9131 97206-263

E-Mail: Diana.Jaeger@methodpark.de



WORKSHOPS/COACHING

Have you attended a course where you understood the theoretical content, but wondered how it would be practically implemented? That's where Method Park workshops and coaching come in. A local consultant is available to provide individual in-house workshops or individual coaching for you and your team. This means you are supported when it comes to implementing the methods learned into your daily practice. That way you gain not only knowledge, but also valuable, practical experience. Your colleagues also benefit from the transfer of knowledge and experience, as we support you in the dissemination of what you have learned. Ensure knowledge acquisition for your company and let yourself and your project team be assisted by experienced consultants as you implement it!

Your benefits

- > Optimal transfer of acquired knowledge to your daily practice
- > Individual, personal guidance in implementation at your workplace
- > Support for the dissemination of what has been learned to a broader range of employees

CONSULTING

Method Park consultants have been successfully providing advice and support for many years on all issues of software and systems engineering. They are available to you as a coach, identifying weaknesses and freeing up potential. Method Park consultants accompany you individually in the continuous optimization of your processes and conduct assessments and audits at your location. They ensure that you manage the transition to new technologies and development methods. Method Park consultants help you comply with legal or industry-specific standards, such as CMMI or SPICE. They raise awareness among your employees of the need for quality assurance, and conceptualize and implement appropriate testing processes. Method Park consultants offer you their expertise in all classical engineering disciplines:

- > Application Life Cycle Management
- > Automotive SPICE and CMMI
- > AUTOSAR
- > Functional Safety & Security
- > Project Management & Agile
- > Test & Quality Assurance
- > Requirements Engineering
- > System- & Software Architecture
- > Variant Management

Through partnership advice and targeted expertise transfer, Method Park consultants promote your team's autonomy and ensure you are fit for all the challenges of modern software & systems engineering.



EFFECTIVE SUPPORT FOR YOUR PROCESS IMPROVEMENT

Process improvement is a matter of corporate culture, and of understanding the term "process". Process improvement means gradual, measurable optimization of your processes and the alignment of your organization with these processes in order to noticeably improve the quality of your products, deadlines, and budgets.

The aim of process improvement is to establish a continuous "learning organization". This is not created with standards and norms that are implemented to the letter and monitored by a compliance department. Instead, the central process group sees itself as a service provider within its own company.

The employee is a customer who wants to reach the company's goals together with all of his/her colleagues. Only when the process group understands the scenarios and problems of its customers (= staff) and pragmatically contributes to finding solutions, can rapid benefits (= value) be generated and the employees motivated to incorporate process thinking into the company culture.

Method Park will help you to anchor this culture in your company, and then build on that basis the profitable process concepts you need. Method Park consultants have mastered these standards, combine them with classic and agile management approaches, and implement them in safety-critical environments.

Method Park consultants are Software Quality Improvement Leaders (SQIL) of the Volkswagen Group, and will advise you in optimizing your development processes and building your engineering competencies under OEM or legal requirements. Method Park consultants offering process consulting, training, and coaching are available worldwide.



WEBINARS

Not only in the regular Method Park courses, trainings, and workshops do you have the opportunity to broaden and deepen your knowledge and skills. Our e-learning program offers an ideal platform for dynamic and interactive training.

Method Park webinars provide, in a concentrated manner, information on the various topics of software and systems engineering. In 45 minutes, you will learn all the important aspects of a subject, presented compactly and to the point. Of course, you always have the opportunity to ask the webinar manager questions about your individual challenges. At the same time, you can get to know our course speakers.

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OUR COURSE RESPONSIBLES EFFECTIVELY SUPPORT YOU WITH YOUR PROJECTS

OUR COURSE RESPONSIBLES

Dr. Ulrich Becker



is principal consultant at Method Park and supports his clients in improving their development processes and methods. His consulting activities focus on application lifecycle management and software architecture, whereby he helps companies from the automotive industry and other heavily regulated sectors to implement requirements relating to their development processes more efficiently and effectively through the targeted use of ALM tools. Ulrich Becker is an active member of the International Software Architecture Qualification Board (ISAQB®) and had significant involvement in the creation of the ISAQB® Advanced Level curriculum for safety-critical embedded systems. He regularly lectures at specialist group meetings and conferences. Ulrich Becker is an ISAQB® Certified Professional for Software Architecture - Foundation Level and ISTQB® Certified Tester - Foundation Level.



Jasmina Becker

works as a senior consultant in the process definition of Method Park and is involved in projects of quality assurance for major customers. She trains Method Park customers on issues of quality management and develops web-based training accordingly, especially in the automotive industry. Her special interest is the maturity measurement framework SPICE.

Dr. Klaudia Dussa-Zieger



is a principal consultant at Method Park, specializing in software testing, quality assurance, and software process improvement. She is a member of ASQF e.V., the Association for Software Quality and Further Education, where she heads up the "Software Testing" group. She also lectures on this topic at the University of Erlangen-Nuremberg. Since 2009, Klaudia Dussa-Zieger has been Chair of the DIN working committee "System and Software Engineering" and actively involved in drafting standards at international level. She is also the author of "Software Engineering nach Automotive SPICE" (Software Engineering using Automotive SPICE). Klaudia Dussa-Zieger is an intacs™ Principal Assessor (Automotive SPICE®) and ISTQB® Certified Tester – Full Advanced Level.

Dr. Uwe Hehn



works for Method Park as a senior consultant on software and system development projects and software testing. His key areas are the provision of advice on issues relating to software and system development processes, based on SPICE (in particular Automotive SPICE®) and CMMI®, as well as software testing and process-related training. He is a member of the executive committee for the TAV (testing, analysis, and verification) group of the German Informatics Society (GI). He regularly lectures at the University of Erlangen-Nuremberg on such topics as "Automotive Software Development Today". He is also co-author of "Mit CMMI Prozesse verbessern!" (improving processes with CMMI) and "SPICE im Unternehmen einführen" (introducing SPICE in your company). Uwe Hehn is an intacs™ Principal Assessor (Automotive SPICE®), iSQI® Certified Professional for Project Management, and ISTQB® Certified Tester - Full Advanced Level.

Timo Karasch



works for Method Park as a senior consultant. His main topics are Automotive SPICE®, functional safety and project management. As a certified Automotive SPICE® Competent Assessor, Timo Karasch does maturity measurement assessments and provides support to process improvement projects in the implementation of standard requirements of Automotive SPICE® and ISO 26262. He is a member of the intacs™ Advisory Board and has been a lecturer at the Duale Hochschule (University of Cooperative Education) Baden-Württemberg in Mannheim since 2012.

Horst Kostal



as a team leader and senior consultant at Method Park and is responsible for all questions relating to the subject of project management. In more than 15 years as a responsible Project Manager, he has gained comprehensive experience on various industries, especially on large-scale and multiple projects. He is familiar with both the plan-driven as well as the agile world from his everyday projects. Horst Kostal accompanies Method Park customers in their process improvement activities, advising them on issues of functional safety and coaches them on the subject of soft skills. Horst Kostal is an intacs™ Provisional Assessor (Automotive SPICE®).

Dr. Jörg Liebig



supports as a senior consultant the variant management team and consults customers about variant management in software and systems engineering. He started consulting on this topic and challenges of software product lines in 2008. Jörg Liebig is the author of several international releases and regularly speaks at conferences and professional groups. Software and systems architecture as well as measuring code complexity in software development are part of his daily work. Jörg Liebig is iSAQB® Certified Professional for Software Architecture – Foundation Level.

Dr. Sebastian Oster



is responsible for Method Park's Stuttgart Branch and further developed Method Park's consultation services on the subject of strategic variant and product line management. Sebastian Oster is Head of the Baden-Württemberg Technical Automotive Group and Assistant Technical Group Leader Automotive Germany in the ASQF e.V.

Jens Palluch



is a trainer, senior consultant and coach for requirements engineering, systems engineering, safety and security. Since 2012, Jens Palluch has managed the Requirements Engineering Technical Group of the ASQF e.V. Jens Palluch is an IREB® Certified Professional for Requirements Engineering – Advanced Level (Requirements Elicitation and Consolidation), a CPMS® Certified Professional for Medical Software, an intacs™ Provisional Assessor, an iSQI® Certified Professional for Project Management and a Certified Scrum Master.

Markus Reinhardt



is a senior software engineer. He supports and coaches his clients in software development, or advises on questions about process and test design. His special interest lies in unit tests and the topic of clean code. Furthermore, Markus Reinhardt is a certified ScrumMaster.

Dr. Jürgen Schmied



is the CEO of Method Park Consulting GmbH and pools together Method Park's consulting services for all customer sectors. Juergen Schmied is a specialist in CMMI®, SPICE and project management. He is co-author of several books, e.g. „SPICE im Unternehmen einführen“ („Introducing SPICE into the Company“). At the University of Würzburg, he holds lectures on "Management in Software Engineering". Juergen Schmied is an intacs™ Principal Assessor for SPICE® and Automotive SPICE, a Certified CMMI Instructor from the CMMI Institute, a trainer and an expert on process improvement and management. He is also an instructor for intacs™ Provisional and Competent Assessors.

Bernhard Sechser



works at Method Park as a principal consultant for SPI and Safety. His work focuses on consulting and training on such topics as functional safety, software and system development processes, implementation of process improvement projects and SPICE assessments. Bernhard Sechser is an intacs™ Principal Assessor & Instructor (SPICE and Automotive SPICE®) and an iSQI® Certified Professional for Project Management as well as an ISTQB® Certified Tester – Foundation Level and an iSAQB® Certified Professional for Software Architecture.

Otmar Seckinger



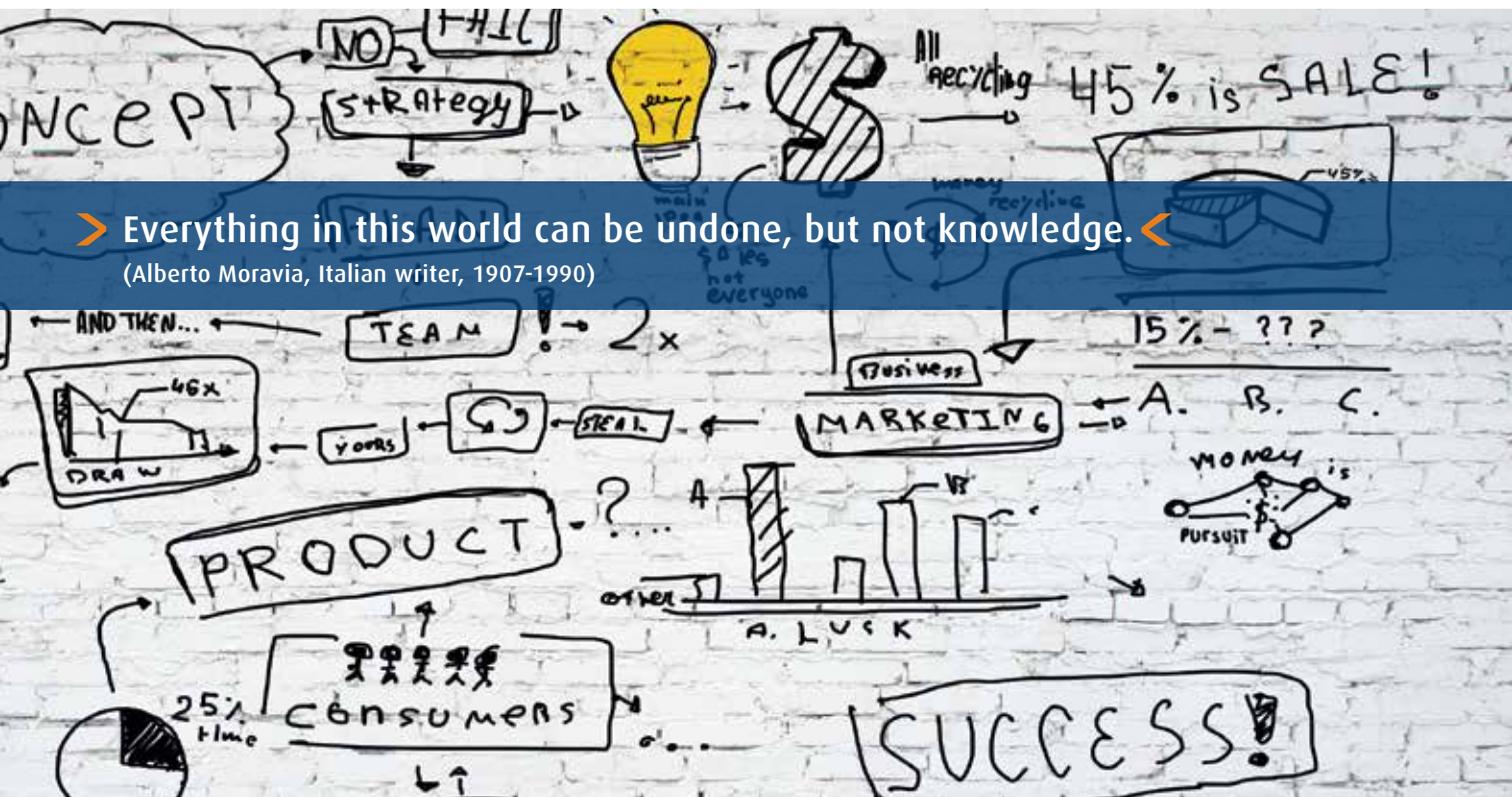
is a trainer and principal consultant at Method Park with a focus on process improvement and agile software project management in the automotive industry and in medical technology. He has managed Business Development on the subject of agility for Method Park since 2012. His special interest is the non-technical success factors of improvement projects. Hence, he also earned a Bachelor's Degree in Psychology while he was working. In addition, Otmar Seckinger also lectures at the FOM – University of Applied Sciences in Economics and Management – in Nuremberg on software engineering.

Dr. Christian Wawersich



is a senior software engineer at Method Park. He has worked on the AUTOSAR specifications and supported various projects in the implementation of the AUTOSAR. His work focuses on systems engineering, AUTOSAR and quality assurance in software development processes. Christian Wawersich is an iSAQB® Certified Professional for Software Architecture – Foundation Level and an intacs™ Provisional Assessor for Automotive SPICE®.

You can find more information on all Method Park trainers on our website:
www.methodpark.com/course-instructors



> Everything in this world can be undone, but not knowledge. <

(Alberto Moravia, Italian writer, 1907-1990)

Knowledge has become a competitive advantage. Exchange of information and expertise transfer play a major role here. Method Park provides a platform for the objectives of knowledge, experience, and networking with the "Talk in the Park". This free lecture series focuses on regular cross-sectoral issues of software & systems engineering through presentations and discussions, and presents practical solutions thereto. In a relaxed atmosphere with snacks and drinks, there is also plenty of room for interesting networking.

The Method Park offices in Erlangen, Munich, and Stuttgart offer a "Talk in the Park" several times a year. Current topics and dates can be found on the Method Park website (www.methodpark.com/talk-in-the-park.html). Recent lectures are also available for download.

Want to share your expertise and tell others about your experiences? Then apply to be a "Talk in the Park" speaker. We look forward to receiving your lecture abstract and CV at Petra.Schmausser@methodpark.de.



> "In all things success depends on preparation." <

(Confucius, Chinese philosopher, 551 B.C.-479 B.C.)



PROCESS MANAGEMENT

INTACS™ CERTIFIED PROVISIONAL ASSESSOR (AUTOMOTIVE SPICE®)

Target audience

Persons who want to perform assessments in accordance with Automotive SPICE®

Employees in process groups

Quality and project managers for whom compliance with the requirements of the Automotive SPICE® process assessment model is important

Project employees who are in charge of developing systems that meet the requirements of the Automotive SPICE® process assessment model

Prerequisites

Participants should have several years of professional experience in the IT industry (e.g. software/system development, project management, quality management or similar experience).

Code SPA

Duration 5 Days

The price of this seminar includes:



AUTOMOTIVE SPICE®

intacs.info



This seminar prepares you to take the exam for qualification as an "intacs™ Certified Provisional Assessor (Automotive SPICE®)". You will become familiar with the Automotive SPICE® process assessment model, which is generally used for assessments in the automotive industry.

With many practical exercises and tips you will learn to work with individual aspects of assessments. Upon completion, you will be able to assess processes according to Automotive SPICE® independently (but under the authority of a Competent Assessor) in your own company or at your suppliers and then improve the processes based on the assessment results.

To complete the training successfully, you must actively participate in the course and pass the independent exam. Individual preparation at the end of each training day is recommended in this regard.

CONTENTS

The seminar content is equivalent to that in the curriculum published by intacs™:

- > intacs™ - the "International Assessor Certification Scheme"
- > Overview of and motivation for process assessment in accordance with ISO/IEC 15504 resp. ISO/IEC 330xx
- > The measurement system: Process profiles and capability level rating
- > General overview of the assessment process
- > Data collection: Interviewing and note-taking techniques
- > Data collection: Inspection of documents
- > Assessment exercise: Assessment of "project management" at capability level 1
- > The Automotive SPICE® assessment model
- > Assessment exercises for processes in the HIS scope of Automotive SPICE® at capability level 1
- > Capability levels 2 and 3
- > Assessment guidelines for inexperienced assessors
- > Assessment exercises at capability levels 2 and 3
- > Exam preparation

For the most part, the course consists of exercises, discussions and participant experience exchange based on their experience with processes and their implementation.

FURTHER INFORMATION

- > This course is exclusively taught by experienced intacs™ Certified Principal Assessors with extensive experience with practical assessment implementation. In addition, they are accredited trainers.
- > The currently applicable version of the prerequisites can be downloaded directly from "<http://www.intacs.info>".
- > Additional exam fees charged when applicable.
- > The respective, currently published fees apply: <http://vda-qmc.de/en/software-processes/automotive-spice/certification/>

INTACS™ CERTIFIED COMPETENT ASSESSOR (AUTOMOTIVE SPICE®)

Target audience

Registered Provisional Assessors who have gained experience in assessments and who want to take responsibility for carrying out assessments in accordance with Automotive SPICE® in the future.

Prerequisites

Participants should have assessment experience.

Participants should have several years of professional experience in the IT industry (e.g. software/system development, project management, quality management or similar experience).

Participating in the course and taking the exam are not subject to submitting evidence that the requirements for qualifying as a Competent Assessor Automotive SPICE® have been met.

Code SCA

Duration 5 Days

The price of this seminar includes:



AUTOMOTIVE SPICE®

intacs.info



This course provides the knowledge required to take on the tasks of a Competent Assessor for an assessment in accordance with ISO/IEC 15504 resp. ISO/IEC 330xx. It extends the experience gained in the training for becoming a Provisional Assessor as well as practical assessment experience. For this reason, the course content also emphasizes participant experience exchange and further practice with using the process assessment model based on this experience.

This seminar will use the Automotive SPICE® process assessment model for illustration purposes. This model demonstrates a domain-specific version of existing process assessment models and is generally used for assessments in the automotive industry.

To complete the training for qualification as a Competent Assessor (Automotive SPICE®) successfully, you must prove your competence in three ways:

- > In the run-up to the seminar, you will be assigned tasks that you must carry out in the form of a presentation. You must present the solutions as part of the seminar.
- > You must actively participate in the practical sections of the training. The trainer will evaluate your participation.
- > You must successfully pass a written multiple choice exam administered independently at the end of the course.

Please note that individual preparation at the end of each training day is recommended to succeed in passing the exam.

CONTENTS

The seminar content is equivalent to that in the curriculum published by intacs™ and expands upon the content of the Provisional Assessor course:

- > Theory and architecture of ISO/IEC 15504 resp. ISO/IEC 330xx (components and relationships)
- > Requirements for complying with an assessment model
- > Process and capability dimension: deepening, typical snares, and usual procedure based on the requirements of the process assessment model
- > Assessment planning: Collection of assessment input, creation of an assessment plan
- > Managing assessment teams
- > Dealing with extreme situations
- > Performing assessments at distributed locations and in various countries
- > Procedures for reporting to the project team and to management
- > Coaching of Provisional Assessors: Qualification criteria and their verification

For the most part, the course consists of exercises, discussions and participant experience exchange based on their experience in applying Automotive SPICE®.

FURTHER INFORMATION

- > This course is exclusively taught by experienced intacs™ Certified Principal Assessors with extensive experience with practical assessment implementation. In addition, they are accredited trainers.
- > The currently applicable version of the prerequisites can be downloaded directly from <http://www.intacs.info>.
- > Additional exam fees charged when applicable.
- > The respective, currently published fees apply: <http://vda-qmc.de/en/software-processes/automotive-spice/certification/>

AUTOMOTIVE SPICE® V2.5 – HIS PROCESSES

Target audience

Developers, test engineers, project managers and other participants in development projects in the automotive domain

Prerequisites

None

Code SH

Duration 3 Days

The price of this seminar includes:



 AUTOMOTIVE SPICE®



This course provides you with an overview of the HIS scope of Automotive SPICE®. Based on practical examples, the Automotive SPICE® model will be introduced from the perspective of a project manager or project employee. You will discuss the problems that can occur in an assessment and how the respective process improvement could look like.

The parts of ISO/IEC 15504 and their successors ISO/IEC 330xx – better known as "SPICE" – are internationally used and accepted standards for assessing and improving system and software development processes. Particularly in the automotive industry, since 2007, Automotive SPICE® has been the preferred process model for implementing assessments.

The HIS working group "Process Assessment" concentrates among other things on determining process capability (assessments), exchanging assessment results, assessor qualification, and Automotive SPICE®. One result of this group's work is the definition of a minimal assessment scope that has to be used by all members (Audi, BMW, Daimler, Porsche, VW).

CONTENTS

- > Version 2.5 of the Automotive SPICE® Process Assessment Model (PAM)
 - ENG.10 System testing
 - SUP.1 Quality assurance
- > Basic procedure in an assessment
 - SUP.8 Configuration management
 - SUP.9 Problem resolution management
 - SUP.10 Change request management
- > Useful preparation for an assessment
 - MAN.3 Project management
 - ACQ.4 Supplier monitoring
- > Advanced information about Automotive SPICE® processes:
 - ENG.2 System requirement analysis
 - ENG.3 System architectural design
 - ENG.4 Software requirement analysis
 - ENG.5 Software design
 - ENG.6 Software construction
 - ENG.7 Software integration test
 - ENG.8 Software testing
 - ENG.9 System integration test
- > Bilateral traceability of requirements
- > Interpretation of levels 1-3 and preview of level 4
- > Improvement potentials with regard to the processes listed

The course consists of lectures, exercises and discussions and offers ample opportunity for asking questions and exchanging experiences.

FURTHER INFORMATION

- > This course is exclusively taught by experienced intacs™ certified Competent and Principal Assessors with extensive experience in the practical implementation of assessments in accordance with Automotive SPICE®.

AUTOMOTIVE SPICE® V3.0

NEW

Target audience

Developers, test engineers, project managers and other participants in development projects in the automotive domain

Prerequisites

None

Code SHU**Duration** 3 Days**The price of this seminar includes:**

 AUTOMOTIVE SPICE®



This course provides you with an overview of the Automotive SPICE® 3.0 processes. Based on practical examples, the Automotive SPICE® model will be introduced from the perspective of a project manager or project employee. You will discuss the problems that can occur in an assessment and how the respective process improvement could look like.

The parts of ISO/IEC 330xx – better known as "SPICE" (successors of ISO/IEC 15504) – are internationally used and accepted standards for assessing and improving system and software development processes. Particularly in the automotive industry, since 2007, Automotive SPICE® has been the preferred process model for implementing assessments.

CONTENTS

- > Automotive SPICE® 3.0 Process Assessment Model (PAM)
- > Basic procedure in an assessment
- > Useful preparation for an assessment
- > Advanced information about Automotive SPICE® processes:
 - SYS.2 System Requirement Analysis
 - SYS.3 System Architectural Design
 - SYS.4 System Integration and Integration Test
 - SYS.5 System Qualification Test
 - SWE.1 Software Requirement Analysis
 - SWE.2 Software Architectural Design
 - SWE.3 Software Detailed Design and Unit Construction
 - SWE.4 Software Unit Verification
 - SWE.5 Software Integration and Integration Test
 - SWE.6 Software Qualification Test
 - SUP.1 Quality Assurance
 - SUP.8 Configuration Management
 - SUP.9 Problem Resolution Management
 - SUP.10 Change Request Management
 - MAN.3 Project Management
 - ACQ.4 Supplier Monitoring
- > Bilateral traceability of requirements
- > Interpretation of levels 1-3 and preview of level 4 and 5
- > Improvement potentials with regard to the processes listed
- > Differences to Automotive SPICE® 2.5

The course consists of lectures, exercises and discussions and offers ample opportunity for asking questions and exchanging experiences.

FURTHER INFORMATION

- > This course is exclusively taught by experienced intacs™ certified Competent and Principal Assessors with extensive experience in the practical implementation of assessments in accordance with Automotive SPICE®.

INTRODUCTION TO CMMI® FOR DEVELOPMENT

Target audience

Process managers/owners/improvers, quality managers, project managers, auditors, those interested in assessment/trainer education, potential SCAMPISM team members, management/decision makers, consultants

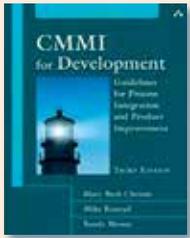
Prerequisites

Existing knowledge of systems and software engineering and/or experience in quality management are desirable, but not required.

Code CE

Duration 3 Days

The price of this seminar includes:



This seminar is the official training program of the CMMI Institute, "Introduction to CMMI® for Development" and it is delivered by a CMMI® instructor certified to do so. The foundational concept of the CMMI® model is explained in this three day introductory course. You will develop an understanding of the five degrees of maturity and the associated process areas. You will become familiar with the potential and the advantages of process improvement in accordance with the CMMI® model. With seminar participation, you will receive a certificate that entitles you to participate in CMMI-based SCAMPISM appraisals as a team member.

CONTENTS

- > Explanation of the significance of processes
- > CMMI®: overview, ideas, structures and components
- > Process improvement with CMMI®
- > Characteristics of the degree of maturity and the associated process areas
- > Characteristics of the generic and specific goals and practices of the process areas
- > Relationships among the process areas
- > Possible CMMI® application areas
- > Exercises, practical learning

FURTHER INFORMATION

Participating in this seminar

- > is a prerequisite for further training through the CMMI Institute to become a CMMI® Instructor or a CMMI® SCAMPISM Lead Appraiser,
- > creates the important prerequisites for taking the CMMI® Associate examination. This examination can be done online <http://cmmiinstitute.com/certifications/certified-cmmi-associate> after the training. (Note: Within this examination you will be asked about all three model constellations, including CMMI® for Acquisition and CMMI® for Services. Therefore, additional examination preparation is recommended. The examination costs are not included in the seminar price.)

RELEVANT STANDARDS IN THE AUTOMOTIVE DOMAIN

NEW

Target audience

All participants and people who are interested in development projects in the automotive domain

Prerequisites

None

Code ARE**Duration** 1 Day

This seminar gives a one day compact overview of the most important requirements and standards in the automotive domain.

These are maturity models, used worldwide for the estimation of capability of development processes: Automotive SPICE® and CMMI. Furthermore the seminar shows which requirements according to the ISO 26262 should be implemented in projects with functional safety. Additional norms and standards complete this introduction lecture.

CONTENTS

- > Motivation for companies to use standards and norms
- > Maturity models and their usage in companies
- > Meaning and content of SPICE and Automotive SPICE®
- > Structure of Automotive SPICE®
- > Meaning of the "HIS Scope"
- > Meaning and content of ISO 26262
- > Structure of ISO 26262
- > Meaning and content of CMMI-DEV
- > Structure of CMMI-DEV
- > Meaning and usage of MISRA-C
- > Meaning and usage of AUTOSAR
- > Meaning and usage of DIN EN ISO 9001 and ISO TS 16949

The course consists of lectures and discussions and offers opportunity for asking questions and exchanging experiences.

AUTOMOTIVE SPICE® V3.0

Automotive SPICE® is indispensable in automotive software and systems development. Since summer 2015, Automotive SPICE® 3.0 has been in line with the current version of this industry-specific standard.

Numerous changes come with Automotive SPICE® 3.0. In comparison to the previous version, for example, the new release emphasizes the V-model much more strongly, and utilizes terminology more consistently. Moreover, the traceability requirements concerning bidirectionality, consistency and verification, as well as tests were made markedly more specific. At the same time, however, management and supporting processes were also optimized and simplified. Further changes result from, among other things, referencing the new SPICE standard series ISO 330xx, and the division of engineering processes into two new groups.

Method Park was involved in the development of the new Automotive SPICE® version with intense reviews. You can therefore get first-hand information on these innovations at

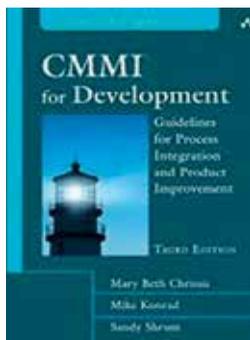
Method Park. Method Park not only gives you a detailed overview of all the changes, but also explains what these innovations concretely mean for you and your daily project activities.

Starting in fall 2015, Method Park will also offer training on Automotive SPICE® 3.0, and perform assessments with the new version.

Additionally, all innovations of the 3.0 version were incorporated into the Method Park Automotive SPICE® Pocket Guide. Simply order your free copy at anfragen@methodpark.de.

The Automotive SPICE® app developed for you by Method Park is also free. That way, you always have the complete content of Automotive SPICE® 2.5 and 3.0 handy. This app is available for iOS-based systems as well as Android devices, on iTunes and the Google Play store.





CMMI FOR DEVELOPMENT:

Guidelines for Process Integration and Product Improvement

CMMI® for Development, Third Edition, is the definitive reference for CMMI-DEV Version 1.3. The authors have revised their tips, hints, and cross-references, which appear in the margins of the book, to help you better understand, apply, and find information about the content of each process area. The book includes new and updated perspectives on CMMI-DEV in which people influential in the model's creation, development, and transition share brief but valuable insights. It also features four new case studies and five contributed essays with practical advice for adopting and using CMMI-DEV. This book is an essential resource—whether you are new to CMMI-DEV or are familiar with an earlier version—if you need to know about, evaluate, or put the latest version of the model into practice.

Mary Beth Chrissis, Mike Konrad, Sandy Shrum

3rd Edition, Published Mar 10, 2011 by Addison-Wesley Professional, Pages: 688 ISBN-13: 978-0-321-71150-2

INDIVIDUAL WORKSHOPS ON PROCESS MANAGEMENT

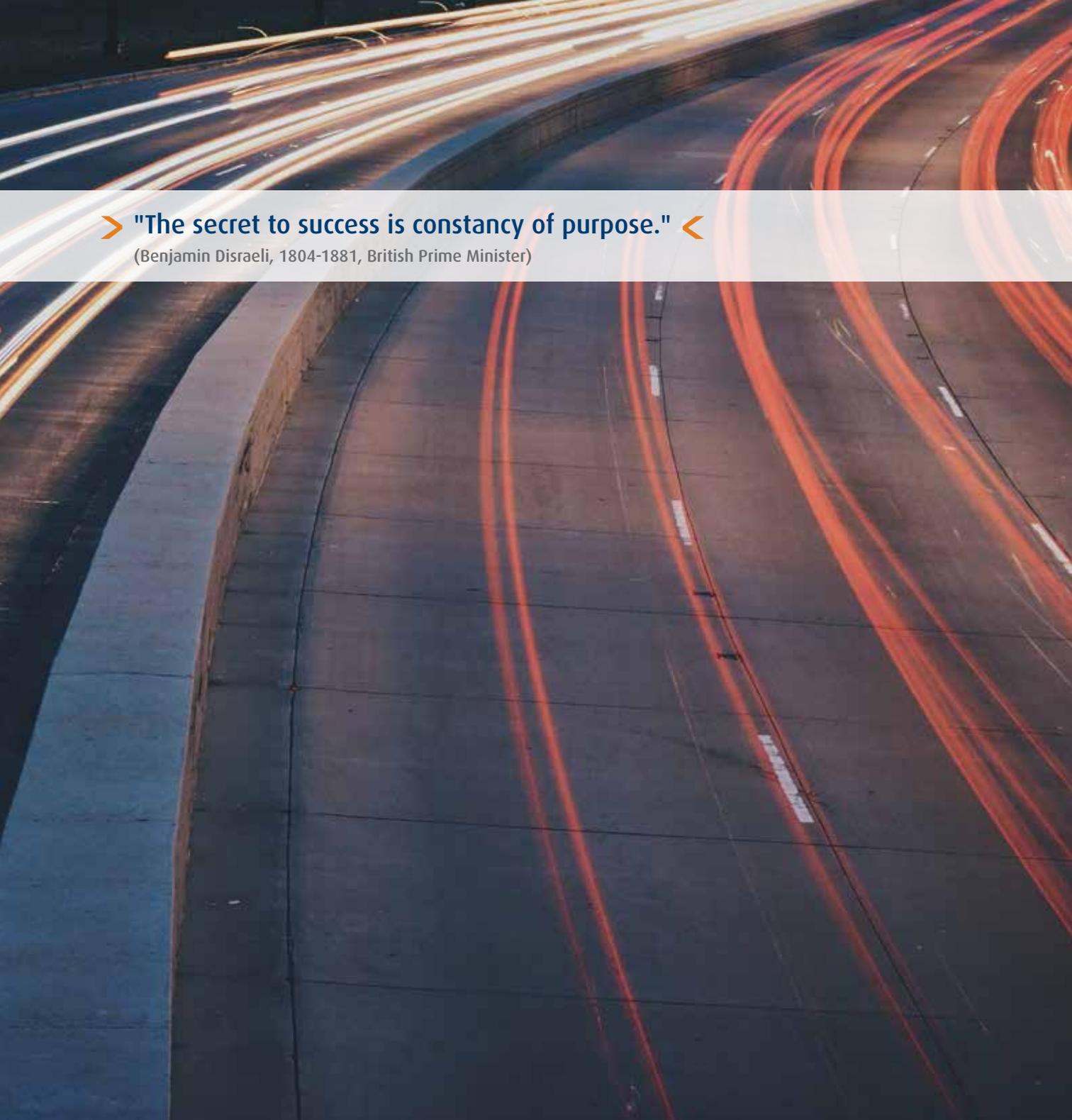
In addition to our wide range of courses in the field of **process improvement and assessment (SPICE, Automotive SPICE®, CMMI®)** we offer individual support through in-house workshops directly at your location – at an attractive price.

- Only interested in certain topics of regular public courses and want them to be dealt with in more detail?
- Want a combination of certain course topics, or want to add additional topics?
- Do you value increased practice, and want to apply what you have learned directly to your own problems with the support of the coach?

Then take advantage of our individual workshops that are tailored to the needs of your business. We are happy to support you directly in implementing the methods you've learned into your daily practice. The advantage: not only do you expand your own knowledge, you also gain valuable practical experience, thus securing knowledge and experience for your company.

Want more information, or have questions? Then please do not hesitate to contact us.

Contact Julia Thomas **Phone** +49 9131 97206-451 **Email** Julia.Thomas@methodpark.de



> "The secret to success is constancy of purpose." <

(Benjamin Disraeli, 1804-1881, British Prime Minister)

PROJECT MANAGEMENT & AGILE

ASQF® CERTIFIED PROFESSIONAL FOR PROJECT MANAGEMENT

Target audience

Project managers, project employees, commissioners of software projects, quality managers

Prerequisites

Experience with project work

Code CP

Duration 4 Days



In this seminar you will learn advanced project management methods - adapted for the specific characteristics of the innovative software industry. You will get an overview of the basic foundations of and terms used in project management and of software quality management. Upon completion of this seminar, you will be able to manage and complete your projects successfully with respect to time, costs and quality. As an option, at the end of the seminar you can take the test to qualify as a "ASQF® Certified Professional for Project Management".

Please note that further preparation at the conclusion of each seminar day is recommended to succeed in passing the exam.

CONTENTS

The content corresponds to the curriculum published by the ASQF®:

- > Overview, basic foundations, terms used in project management
- > Project organization forms
- > Process and procedure models for software development
- > Project start and project objectives
- > Project planning: The road map for project success
- > Project control and management
- > A natural law: Requirements change! How can we deal with that?
- > Human capital: Introduction to employee management
- > Project acceptance and completion
- > Risk management: Project management from another perspective
- > An overview of software quality management
- > Developing mature software with CMMI® and SPICE

FURTHER INFORMATION

- > Additional exam fees charged when applicable.
- > If the exam is passed, the certificate will be issued by the independent certifier International Software Quality Institute (ISQI).

PROFESSIONAL TIME AND COST ESTIMATION

Target audience

Managers, project managers

Prerequisites

Basic knowledge of systems or software engineering

Code APA

Duration 2 Days



This project management seminar deals with methods for systematic time and cost estimation. Estimating time and costs correctly is one of the greatest challenges for project-based businesses. If your estimates are too low, you pay the extra costs in fixed price projects. If your estimates are too high and your resulting quotations are too expensive, customers will not order from you and your competition will profit. These are good reasons to increase estimation precision!

In this seminar you will learn when to use which method and how the estimate is integrated into project control. You will learn the differences between scope estimation, time estimation and cost estimation.

CONTENTS

- > Motivation and problems in estimation
- > Basics of time and cost estimation
- > The estimation and planning process
- > Factors that influence estimation
- > Methods of time and cost estimation
 - Counting, calculating, intuition
 - Estimates based on project structure/ product structure
 - One point estimates vs. three point estimates
 - Analogy methods
 - Fuzzy logic and related variants (e.g. story points)
- Delphi methods and related variants (wide band delphi, planning poker)
- Team estimation game and magic estimation (for estimating when time is short)
- Algorithm methods (e.g. function point)
- > Differences in estimation based on function category (e.g. support processes vs. engineering processes)
- > Estimating project duration and costs
- > Interfaces with other processes (e.g. risk management and project control)
- > Exercises

ISQI® CERTIFIED AGILE ESSENTIALS

Target audience

Aimed at anyone involved in agile projects who wants to become familiar with working in an agile environment. This includes project managers, quality managers, software development managers, business analysts, developers, testers, IT directors and management consultants.

Prerequisites

Basic knowledge of software development

Code AE

Duration 2 Days (without exam)



In this seminar you will become familiar with the foundations of agile development and understand how you can realize them in the project environment. The values and basic terms behind agile development will be covered in the seminar, and you will be able to transfer this knowledge to your own situation. Using practical exercises, this seminar shows you how to carry out release and iteration planning, how to write and test good user stories and how you can contribute to continuous improvement in meetings such as the daily stand-up and the retrospective.

This seminar serves as preparation for the iSQI® Certified Agile Essentials exam.

CONTENTS

- > Agile manifesto and principles
 - Relevance and definitions
- > Release planning
 - Overview and Iteration Zero
- > Iteration planning and estimation
- > Requirements review
 - User stories
 - Code reviews
- > Daily stand-up
- > Team quality
 - Definition of done, acceptance criteria
 - Test and best practices
- > Review and retrospectives

FURTHER INFORMATION

- > The optional exam will take place after the course and is only available in English.
- > Additional exam fees charged when applicable.

EXPERT WORKSHOP: INDUSTRY EXCHANGE – AGILITY IN A REGULATED ENVIRONMENT

Do you want to customize your development to be as agile as possible, but come up against challenges that are specific to your industry and development environment? Many companies in regulated spaces are currently facing great uncertainty regarding how agility can be applied, and whether its benefits are sufficiently crosscutting:

- How do functional safety requirements interact with Scrum?
- Can someone help me to make my system development more agile?
- How can I pass an Automotive SPICE Assessment v3.0 using agile development?

In this expert workshop, you will have the opportunity to discuss questions and suggestions ("Call for Problems") from your every day work experience. In group work, you discuss possible solutions to your challenges. Through practice-oriented expert lectures and engaging exchanges, you profit for the sake of your business, before the day winds down with interesting conversations and snacks.

More information can be found on our website: www.methodpark.com/agile.html

THE INTRODUCTION OF AGILE METHODS

NEW

Target audience

Project managers, project team members, software designers, software architects, software testers, software developers, quality managers, system analysts, contractors of software projects

Prerequisites

Experience in software and product development

Code AM

Duration 1 Day



During this project management course, we will present the fundamentals of agile methods, techniques and practices. Learn about the most common agile methods such as Scrum, Kanban, Lean, XP and how to combine them. A fundamental understanding of agile methods will help to estimate the advantages of an agile approach compared to plan driven models. During the course, you will learn about the similarities as well as differences between both methods. We will discuss in particular the dependencies of environment and suitable methods.

During this training, we will focus less on the basics in theory but more on its use supported by practical exercises. After this course you will be able to identify and adjust the right methods and benefit from the advantages of agility.

CONTENTS

- > Introduction of agile methods
- > Company culture and mapping to agility
- > Basics of Scrum
 - Roles
 - Artefacts
 - Meetings and activities
- > Fundamentals of Lean
- > Fundamentals of Kanban
 - Principles
 - Artefacts
 - Metrics
 - Flight Level
- > Fundamentals of Extreme Programming (XP)
- > Combinations of agile methods (in particular Kanban versus Scrum)
- > Scaling agile methods

AGILE DEVELOPMENT IN A REGULATED ENVIRONMENT

NEW

Target audience

Project managers, project team members, software designers, software architects, software testers, software developers, quality managers, system analysts, contractors of software projects

Prerequisites

Experience in software and product development with agile methods (Scrum/Kanban)

Code AR

Duration 1 Day



During this project management course, learn how to use agility in projects within a regulated environment. Learn how to evaluate possible applications and their advantages. On the basis of the different norms and standards, we will demonstrate the advantages of agility and how to use them when making adjustments.

We will focus on SPICE®, functional safety models and their usage in the automotive and medical technology sectors. This course is based on practical experience and provides the chance to discuss your own specific challenges.

CONTENTS

- > Challenges in a regulated environment
- > Requirements of norms and standards regarding strategies and work products
- > Document-oriented strategy models versus agility
- > Usage of agility with Automotive SPICE®
 - Advantages through the overlap with SPICE®
 - Usage of related measures
- > Usage of agility with functional safety
 - Choosing suitable phases
 - Production of required proof according to norms
- > Usage of agility in the medical technology sector
- > Challenges and possibilities of agile development

INDIVIDUAL PROJECT MANAGEMENT WORKSHOPS

In addition to our range of courses, we offer individual support on specific topics of project management, such as project start, project structure and planning, and risk management. Upon request we also take into account the relevant project management implications of safety-critical products (for example the requirements and approval procedures in the medical sector or ISO 26262 in the automotive sector).

We are happy to carry out in-house workshops directly at your location – at an attractive price.

- Only interested in certain topics of regular public courses, and want them to be dealt with in more detail?
- Want a combination of certain course topics, or want to add additional topics?
- Do you value increased practice, and want to apply what you have learned directly to your own problems with the support of the coach?

Then take advantage of our individual workshops that are tailored to the needs of your business. We are happy to support you directly in implementing the methods you've learned into your daily practice.

Contact Julia Thomas **Phone** +49 9131 97206-451 **Email** Julia.Thomas@methodpark.de

ECQA CERTIFIED INNOVATION MANAGER

Target audience

Improvement managers, innovation managers, technology transfer managers, quality managers, research managers, IT and service managers, human resources directors, project managers, management

Prerequisites

None

Code IM

Duration 5 Days

ISCN

International Software Consulting Network



In the context of the training to become an ECQA Innovation Manager, you will become familiar with concepts that demonstrate how you can promote innovative strengths and plan innovation processes systematically. You will learn how to carry out project management that allows for innovations and promotes their acceptance.

Harvesting ideas and using them effectively generates innovations that represent the necessary conditions for successful business strategies. Because ideas are often assessed incorrectly and communicated poorly, many potential innovations go unrecognized and are not brought to market. Using knowledge and ideas correctly is a significant challenge for management. An Innovation Manager rises to this challenge.

This seminar will teach you the essential paradigms of advanced innovation management. Its objective is establishing a learning organization and generating an environment that successfully leads to ideas and resulting innovations with the systematic thinking necessary for their management. You will obtain the necessary knowledge about the subject areas of creative learning environments, the internal and external networking of the organization in the sense of open innovation, development of new innovation horizons thanks to e.g. business model innovation as well as the success factors for the systematic and traceable generation and implementation of innovative ideas. The seminar also deals in detail with subjects such as strategies for promoting innovations inside and outside of the organization, the associated change management and the use of social media in innovation management. All of the course material is supported by case studies from various sectors of industry as well as the most advanced insights from innovation research.

All participants receive a certificate of participation. Upon completion of this training you can also take a test that will give you the additional option to acquire certification as an "ECQA Certified Innovation Manager".

Further information about the test and certification can be found at www.ecqa.org.

CONTENTS

- > Training day 1
 - Core competence analysis
 - Systemic design of a learning organization based on the core competencies
 - Multicultural learning organizations
- > Training day 2
 - Service innovation and "co-design" of products and services
 - Open innovation for sustainable innovation strength
 - Business Model Innovation
- > Training day 3
 - Characteristics and design of an innovation culture
 - Idea generation, creativity methods
 - Idea management
 - Entrepreneurship, intrapreneurship
- > Training day 4
 - Social media for innovation
 - Internal and external networking of organizations
- > Training day 5
 - Promoting innovations
 - Successful change management on the process and organization levels

Test now! stages.methodpark.com

The Stages Process Management System

- Enables anyone to model processes
- Makes it easy to understand and apply processes
- Automates processes and integrates into existing environments
- Ensures that processes meet standards such as CMMI and SPICE



 **stages**
stages.methodpark.com

> "Nothing worthwhile is easy." <

(Brian Tracy, *1944, American author)



SYSTEMS ENGINEERING, REQUIREMENTS & ARCHITECTURE

IREB® CERTIFIED PROFESSIONAL FOR REQUIREMENTS ENGINEERING – FOUNDATION LEVEL

Target audience

Requirements managers, system and software analysts (systems engineers), software architects, project managers, clients

Prerequisites

Analytical thinking

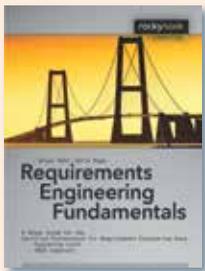
Experience with requirements problems

Overview of development processes

Code RE

Duration 3 Days

The price of this seminar includes:



You develop systems with the most advanced technologies, but you are not sure if you are developing the systems that your customer really wants? In this seminar you will learn how to lay the foundation for a successful project by dealing with requirements systematically. You will acquire techniques, methods and tools to elicit, document, validate and manage requirements efficiently.

Upon completion of the seminar, you will be able to apply requirements engineering successfully in your own projects. You can take the exam to qualify as an "IREB® Certified Professional for Requirements Engineering – Foundation Level".

Please note that further preparation at the conclusion of each seminar day is recommended to succeed in passing the exam.

CONTENTS

This seminar is based on the CPRE model of the IREB®, the international standard for education and certification in requirements engineering. The content is equivalent to the current syllabus:

- > Requirements engineering fundamentals and terms
 - Factors influencing requirements engineering
 - Profile of a requirements engineer
 - Basic foundations of communications theory
- > Incorporation into development processes
 - Agile models
 - V Model
- > Types of requirements
 - Overview
 - Functional, behavioral and structural requirements
 - Non-functional requirements
 - Interface requirements
- > Elicitation, analysis and documentation of requirements
 - Defining goals
 - System context and system boundary
- Elicitation techniques, e.g. interviews, workshops and use cases
- Structure and content of requirements specifications
- Documentation using natural language as well as graphical and formal methods
- > Domain mode
 - Object-oriented domain models
- > Requirements validation
 - Acceptance criteria
 - Quality criteria
 - Reviews and inspections
- > Requirements management
 - Traceability of requirements
 - Measurements and status tracking
 - Prioritization of requirements
 - Change management
- > Best practices and tools

FURTHER INFORMATION

- > Additional exam fees charged when applicable.
- > If the exam is passed, the certificate will be issued by the independent certifier International Software Quality Institute (ISQI).

IREB® CERTIFIED PROFESSIONAL FOR REQUIREMENTS ENGINEERING – ADVANCED LEVEL (MODELING)

Target audience

Requirements managers, system and software analysts (systems engineers), project managers

Prerequisites

Basic foundations of requirements engineering

A prerequisite for taking the exam is either the certificate "IREB® Certified Professional for Requirements Engineering – Foundation Level" or the certificate "Requirements Engineering" of the British Computer Society.

Code REM

Duration 3 Days



Are you looking for an advanced level seminar that will add to your basic knowledge gained in the IREB® Certified Professional for Requirements Engineering - Foundation Level for Modeling Requirements seminar? In this training, through many practical exercises you will acquire greater familiarity with the efficient modeling of information structures, functions, behaviors and scenarios. Upon conclusion of the seminar you can take the exam to qualify as an "IREB® Certified Professional for Requirements Engineering – Advanced Level, Requirements Modeling".

Please note that further preparation at the conclusion of each seminar day is recommended to succeed in passing the exam.

CONTENTS

The content corresponds to the curriculum published by the IREB®

- > Basic foundations of using models in requirements engineering
 - Behavior modeling using state charts
 - Combination of function models and behavior models
- > Information modeling
 - Modeling domain classes, attributes and data types
 - Modeling relationships
 - Generalization and specialization
 - Evolution of information models
- > Function and behavior modeling
 - Use case models
 - Function modeling using activity diagrams and data flow diagrams
- > Scenario modeling with sequence diagrams
- > Dealing with models
 - Combination of the various model types
 - Interrelation of models and a requirements specification

FURTHER INFORMATION

- > Additional exam fees charged when applicable.
- > If the exam is passed, the certificate will be issued by the independent certifier International Software Quality Institute (ISQI).

IREB® CERTIFIED PROFESSIONAL FOR REQUIREMENTS ENGINEERING – ADVANCED LEVEL (MANAGEMENT)

NEW

Target audience

Requirements managers, system and software architects, system and software developers, project managers, quality managers, risk managers, system and software testers, test managers

Prerequisites

Basics of requirement engineering

A prerequisite for taking the exam is the certificate “IREB® Certified Professional for Requirements Engineering – Foundation Level”.

Code RM

Duration 3 Days



During this course, deepen your knowledge of “IREB® Certified Professional for Requirements Engineering – Foundation Level” with topics like assigning attributes, prioritization, change management and traceability. In addition learn how to implement variant management for requirements and what to consider about reports for requirements management. We show you how to manage requirements engineering processes and explain the meaning of agile requirements management. At the end of this course you can take the exam for “IREB® Certified Professional for Requirements Engineering – Requirements Management, Advanced Level”.

Please note that further preparation at the end of each seminar day is recommended to succeed in passing the exam.

CONTENTS

The content corresponds to the curriculum published by the International Requirements Engineering Board (IREB®):

- > Definition of requirements management
- > Requirements information model
- > Attribute scheme for requirements
- > Optimization of attributes and views
- > Evaluation and prioritization of requirements
- > Version and change management
- > Metrics for traceability of requirements
- > Challenges of traceability of model-based requirements
- > Variant management for requirements
 - Documentation and evaluation of variants
 - Modeling of features
- > Reports for requirements management
 - Report content
 - Metrics and goal question metric method
- > Management of RE processes
 - Documentation, monitoring and management of RE processes
 - Improvement of RE processes
- > Requirements management in agile projects
- > Tools of requirements management

FURTHER INFORMATION

- > Additional exam fees charged when applicable.
- > If the exam is passed, the certificate will be issued by the independent certifier International Software Quality Institute (ISQI).

SYSTEMS ENGINEERING BASICS

Target audience

Project managers, architects, designers, developers, testers

Prerequisites

Experience with development projects

Code GS

Duration 3 Days



This training provides an overview of a consistent implementation of systems engineering and you will learn why it is so critical to "think in systems".

Do you work with complex systems that require perfect interaction among hardware, software and mechanical systems in their creation? Are you looking for an integrated approach for linking these disciplines? This seminar will teach you the important aspects of the system lifecycle. You will become familiar with the frequently used system engineering methods from systems requirement engineering, system architecture and system testing. In addition, you will learn about the details in the interaction of the technical core processes at the system and software levels.

CONTENTS

- > Introduction to systems engineering
- > System theory – What is a system?
- > Problems in systems engineering
 - Interaction among the system, software and hardware levels
 - Organizational structure vs. process
 - Documentation
- > Systems engineering procedure model
- > Development process in systems engineering
 - Requirements engineering
 - Architecture
 - Integration
 - Verification and validation

EMBEDDED ARCHITECTURE WITH UML

Target audience

Software architects, software developers

Prerequisites

Analytical thinking
Experience with development projects
UML basics

Code EA

Duration 2 Days



Software architectures for embedded systems need to address specific challenges: Limited resources, performance and safety are often the predominant impact factors. But maintainability, flexibility and extensibility also have to be taken into account.

In this seminar you will learn how to address these challenges and how you can use UML successfully in your projects. You will become familiar with an approach to architectural design that takes the impact factors of your system into consideration. And you will learn how to evaluate your architecture. Specific solution concepts for the most significant impact factors and practical tips for successfully creating good architectures in your projects will be given.

CONTENTS

- > Approach to embedded system development
- > Impact factors for embedded systems
 - Significance and analysis of impact factors
- > Concepts and patterns for typical impact factors
 - Real-time
 - Safety
 - Resources and flexibility
- > Documentation
 - UML notation
 - Typical views
- > Scenario-based architecture evaluation
- > Implementation concepts
- > Consistent example used for all exercises

ISAQB® CERTIFIED PROFESSIONAL FOR SOFTWARE ARCHITECTURE – FOUNDATION LEVEL

Target audience

Software architects, software designers, software developers, systems analysts

Prerequisites

Experience in software development, basic familiarity with the UML

Code SA

Duration 3 Days



In this seminar you will learn about the role played by software architecture in software projects and how you can establish it in your projects. You will learn how to design, document and evaluate software architectures. Upon completion of this seminar, you will have acquired methods and techniques used by software architects and be able to use them successfully in your own projects.

You can take the test to qualify as an "ISAQB® Certified Professional for Software Architecture – Foundation Level". Please note that further preparation at the conclusion of each seminar day is recommended to succeed in passing the test.

CONTENTS

The content corresponds to the curriculum published by the ISAQB®:

- > Definition of software architecture
- > The role of the software architect
- > Documentation of software architectures
 - Description and communication of software architectures
 - Use of the UML to describe software architectures
- > Approaches to developing software architectures
- > Design principles and patterns
- > Software architecture and quality
 - The role of software architecture in achieving quality objectives
 - Evaluating software architectures
- > Tools for software architects
- > Examples of software architectures
- > Consistent example used for all exercises

FURTHER INFORMATION

- > Additional exam fees charged when applicable.
- > If the exam is passed, the certificate will be issued by the independent certifier International Software Quality Institute (ISQI).

ISAQB® CERTIFIED PROFESSIONAL FOR SOFTWARE ARCHITECTURE – ADVANCED LEVEL (SAFETY CRITICAL EMBEDDED SYSTEMS)

Target audience

Software architects and developers of embedded systems

Prerequisites

Experience in the development of software for embedded systems, basic foundations of software architecture, such as those provided by the seminar "ISAQB® Certified Professional for Software Architecture – Foundation Level"

Code SAE

Duration 3 Days



Safety-critical embedded systems place special demands on software architecture: In addition to standards-related requirements in the area of functional safety, embedded systems must often meet real-time requirements. Other typical topics include variability and communication via special bus systems. This seminar focuses on concrete methods and solutions for dealing with these requirements. In addition, the seminar provides an overview of system and software development processes for embedded systems and the role played by software architecture in these processes.

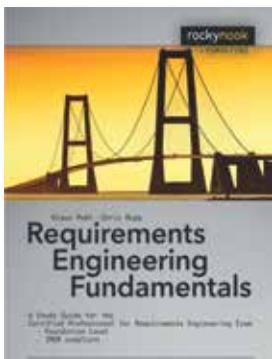
CONTENTS

The content corresponds to the curriculum published by the ISAQB®:

- > System development for embedded systems
- > Software development for embedded systems
- > Functional safety
 - Procedures for developing safety-critical systems
 - Solutions at the architecture level
- > Real-time and concurrency
 - Approaches for implementing real-time requirements
 - Analysis of real-time properties
- > Distributed systems
 - Time- and event-driven communication
 - Bus systems and their properties
- > Variant management
 - Analysis and description of variability
 - Approaches for implementing variability

FURTHER INFORMATION

- > The seminar is licensed in accordance with the "ISAQB® Certified Professional for Software Architecture – Advanced Level", "Safety-Critical Embedded Systems" module. The seminar provides 10 credit points for "methodical skills" and 20 credit points for "technological skills".



Klaus Pohl, Chris Rupp

REQUIREMENTS ENGINEERING FUNDAMENTALS

**A Study Guide for the Certified Professional for Requirements Engineering Exam
Foundation Level / IREB compliant**

In practice, requirements engineering tasks have become increasingly complex. In order to ensure a high level of knowledge and competency among requirements engineers, the International Requirements Engineering Board (IREB) developed a standardized qualification called the Certified Professional for Requirements Engineering (CPRE). The certification defines the practical skills of a requirements engineer on various training levels. This book is designed for self-study and covers the curriculum for the Certified Professional for Requirements Engineering Foundation Level exam as defined by the IREB. About IREB: The mission of the International Requirements Engineering Board is to contribute to the standardization of further education in the fields of business analysis and requirements engineering by providing syllabi and examinations, thereby achieving a general improvement of applied requirements engineering. The IRE Board is comprised of a balanced mix of independent, internationally recognized experts in the fields of economy, consulting, research, and science. The IREB is a non-profit corporation. For further information visit www.certified-re.com.

1st Edition, Published May 20, 2011 by Rocky Nook, Pages: 182, ISBN-13: 978-1933952819

Target audience

Software architects, software designers, software developers, system analysts, project managers

Prerequisites

Experience in software development

Code MCA

Duration 2 Days



In this course, learn how multicore platforms are structured and which problems may arise when working with these platforms. We show you how to solve these problems as well as advantages and disadvantages of each solution. You learn about methods and techniques for developing and evaluating software and software architectures for multicore platforms and how to use the knowledge in your projects.

CONTENTS

- > Definition, evolution and characteristics of multicore platforms
- > Concurrency
 - Multi-threading: quasi-parallelism and real parallelism
 - Thread models
 - Program interrupts
- > Scheduling
 - Preemption
 - Time-triggered scheduling
 - Event-triggered scheduling
- > Synchronization and communication between threads
 - Memory models
 - Events, polling, server-based event processing
 - Messaging, queues, shared memory
 - Race conditions
 - Semaphores, spinlocks, mutexes, locks
- Deadlocks, livelocks, starvation
- Thread-local memory
- Non-blocking synchronization and transactional memory
- Prevention of deadlocks
- Avoidance of uncontrolled priority inversion
- > Safety-relevant development
- > Effects on the real-time processing
 - Determination of blocking times
 - Prevention of deadlocks
 - Progress guarantees
 - Processing of non-periodic tasks
- > Application design and usage of operating-system services
- > Porting uncore software to multicore platforms
- > Consistent exercise example

AUTOSAR IN PRACTICAL APPLICATIONS

Target audience

Software architects, software developers

Prerequisites

Experience in software development

Code AP

Duration 3 Days

AUTOSAR



Would you like to use AUTOSAR technology to manage the complexity of software development of advanced motor vehicles, but you don't have the practical experience you need to apply AUTOSAR productively in your development projects?

Then take this seminar and benefit from our expertise. Here, based on a complete, practical example, you will acquire and develop techniques for developing an AUTOSAR compliant system, from AUTOSAR software components to configuring the AUTOSAR basic software (BSW). Upon completion of this seminar, you will be able to apply these procedures in your AUTOSAR compliant project.

CONTENTS

- > 1st day: Motivation and basic concepts
 - Overview on the AUTOSAR architecture
 - Development methodology
 - Phases in code generation
- > 2nd day: AUTOSAR software components
 - Creating software components
 - Further RTE concepts
 - Configuring and generating the RTE
 - Planning RTE events
- > 3rd day: Configuring the basic software
 - Architecture of the basic software
 - Configuring and generating the RTE and the basic software
 - Integrating the created software components
 - Configuring individual BSW components (NVM, diagnostics, ...)

AUTOSAR – CONCEPTS AND STRATEGIES

Target audience

Software developers, software architects, project managers, development managers

Prerequisites

Experience in automotive software development

Code AKS

Duration 1 Day

AUTOSAR



This seminar provides a detailed overview on AUTOSAR. You will learn both the AUTOSAR architecture and the related development methodology. Upon completion of this seminar, you will be able to assess the effects AUTOSAR technology will have on your projects and your company. You will understand the differences between AUTOSAR 3.x and AUTOSAR 4.x.

CONTENTS

- > Motivation and objectives for AUTOSAR development
- > Overview of the AUTOSAR architecture
- > Development methodology
- > What are the AUTOSAR software components (SWC)?
- > What functions does the basic software offer (BSW)?
- > Phases in code generation
- > Differences between AUTOSAR 3.x and AUTOSAR 4.x

AUTOSAR COMPACT

Target audience

Software architects,
software developers

Prerequisites

Experience with software
development

Code APC

Duration 2 Days



Would you like to use AUTOSAR technology to manage the complexity of software development of advanced motor vehicles, but you don't have the experience you need to apply AUTOSAR productively in your development projects?

Then take this seminar and benefit from our expertise. In this two day compact course you will learn all about the basic concepts of AUTOSAR. Upon completion of this seminar, you will have the background to start an AUTOSAR project.

CONTENTS

- > 1st day: Motivation and basic concepts
 - Overview on the AUTOSAR architecture
 - Development methodology
 - Phases in code generation
 - Creating software components
 - Configuring and generating the RTE
- > 2nd day: AUTOSAR basic software
 - Architecture of the basic software
 - Configuring and generating the RTE and the basic software
 - Planning RTE events
 - Concepts of individual BSW components (NVM, diagnostics, ...)

INDIVIDUAL WORKSHOPS ON SYSTEMS ENGINEERING, REQUIREMENTS AND ARCHITECTURE

In addition to our wide range of courses on **requirements engineering, architecture, UML, and SysML**, we offer individual support through in-house workshops directly at your location – at an attractive price.

- Only interested in certain topics of regular public courses, and want them to be dealt with in more detail?
- Want a combination of certain course topics or want to add additional topics?
- Do you value increased practice and want to apply what you have learned directly to your own problems with the support of the coach?

Then take advantage of our individual workshops that are tailored to the needs of your business. We are happy to support you directly in implementing the methods you've learned into your daily practice.

The advantage: you not only expand your own knowledge, you also gain valuable practical experience, thus securing knowledge and experience for your company.

Want more information, or have questions? Then please do not hesitate to contact us.

Contact Julia Thomas **Phone** +49 9131 97206-451 **Email** Julia.Thomas@methodpark.de

> "There's a way to do it better - find it." <

(Thomas Alva Edison, 1847-1931, American inventor)



TEST & QUALITY ASSURANCE

ISTQB® CERTIFIED TESTER – FOUNDATION LEVEL

Target audience

System and software testers, system and software developers, project managers, quality managers

Prerequisites

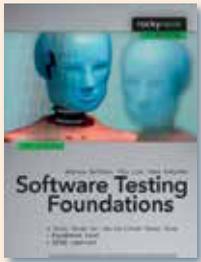
Experience with software-based systems

Knowledge in software and/or system testing or software/system development is helpful, but not required.

Code TF

Duration 4 Days

The price of this seminar includes:



This course provides the basis for taking the exam to qualify as an "ISTQB® Certified Tester, Foundation Level". You will acquire the basic skills and techniques associated with software testing, which will enable you to test the software of your products effectively and efficiently in testing that accompanies development. You will learn how to improve software and system testing in your company and, as a result, increase the software quality of your products.

Upon completion of this seminar you will be able to establish the testing techniques learned in your own projects and perform tests successfully in a targeted manner.

Please note that further preparation at the end of each seminar day is recommended to succeed in passing the exam.

CONTENTS

The seminar content is equivalent to that in the curriculum published by ATB, GTB and STB:

- > Foundation of software testing
 - Testing terminology
 - Fundamental testing process
- > Testing in the software lifecycle
 - Life cycle models
 - Test levels (component, integration, system and acceptance testing)
 - Maintenance testing
 - Test types (functional/non-functional/structural/regression testing)
- > Static testing method
 - Reviews and the review process
 - Static analysis
- > Test design techniques
 - Black box techniques
 - White box techniques
 - Experience-based techniques
 - Selecting the proper technique
- > Test management
 - Test organization
 - Test planning
 - Costs and cost-effectiveness
 - Defect/Configuration management
- > Testing tools
 - Types of tools
 - Effectively applying testing tools
 - Selecting and introducing tools

FURTHER INFORMATION

- > Additional exam fees charged when applicable.
- > If the exam is passed, the certificate will be issued by the independent certifier International Software Quality Institute (ISQI).

ISTQB® CERTIFIED TESTER – ADVANCED LEVEL (TEST MANAGER)

Target audience

Software testers, test managers, project managers, quality managers

Prerequisites

Experience with software-based systems and software testing

Prerequisites for taking the exam are the successful completion of the exam to qualify as an "ISTQB® Certified Tester, Foundation Level" and at least 18 months of testing experience.

Code TM

Duration 5 Days



This seminar provides the basis for taking the exam to qualify as an "ISTQB® Certified Tester, Advanced Level, Test Manager". Here you will learn how to manage testing teams, to plan and document tests correctly and monitor their progress. Various testing process improvement models will be introduced and you will learn how to improve your testing processes based on these models. Upon completion of this course you will be able to estimate the time and costs required for your testing projects as well as track and manage the projects successfully.

Please note that further preparation at the end of each seminar day is recommended to succeed in passing the exam.

CONTENTS

The seminar content is equivalent to that in the curriculum published by ATB, GTB and STB:

- > Testing process
- > Test management
 - Test management in context
 - Risk-based test and other approaches for test prioritization
 - Test documentation
 - Test estimation
 - Defining and using test metrics
- > Distributed, outsourced and insourced testing
- > Reviews
 - Management reviews and audits
 - Managing reviews, metrics for reviews
- > Defect management
 - Defect and software development life cycle
 - Defect report information
 - Assessing process capability with defect report information
- > Testing process improvement
 - Test improvement process
 - Test-specific maturity models (TMMI, TPI NEXT, CTP, STEP)
- > Test tools and automation
 - Tool selection
 - Open source and custom tools
 - Return on investment (ROI)
- > People skills and team development
 - Testing organization
 - Individual skills and test team dynamics
 - Motivation and communication
- > Exercises for all of the significant topics

FURTHER INFORMATION

- > Additional exam fees charged when applicable.
- > If the exam is passed, the certificate will be issued by the independent certifier International Software Quality Institute (ISQI).

ISTQB® CERTIFIED TESTER – ADVANCED LEVEL (TEST ANALYST)

Target audience

Software testers, system testers, project managers, quality managers

Prerequisites

Experience with software-based systems and software testing

Prerequisites for taking the exam are the successful completion of the exam to qualify as an "ISTQB® Certified Tester, Foundation Level" and at least 18 months of testing experience.

Code TA

Duration 4 Days



This seminar provides the basis for taking the exam to qualify as an "ISTQB® Certified Tester, Advanced Level, Test Analyst". You will become familiar with systematic, specification based test design techniques as well as additional test design techniques which will help you test your software adequately. The functional test is the emphasis here. In addition to test design techniques for functional tests, you will learn how to improve your tests with the targeted use of reviews. Upon completion of this seminar you will be able to ensure compliance with your quality standards and adequate testing of your development and testing documentation.

Please note that further preparation at the end of each seminar day is recommended to succeed in passing the exam.

CONTENTS

The seminar content is equivalent to that in the curriculum published by ATB, GTB and STB:

- > Test process from the viewpoint of a test analyst
- > Test management from the viewpoint of a test analyst
- > Specification-based test design techniques
 - Equivalence partitioning
 - Boundary value analysis
 - Decision tables
 - Cause-effect graphing
 - Stats transition testing
 - Combinatorial testing techniques
 - User case testing
 - Domain analysis
- > Selection and application of appropriate combinations of test design techniques
- > Additional test design techniques
 - Defect-based techniques, Defect taxonomies
 - Experience-based techniques
 - Error guessing
 - Checklist-based testing
 - Exploratory testing
- > Reviews
- > Defect management
- > Test tools and automation
- > Exercises for all significant topics

FURTHER INFORMATION

- > Additional exam fees charged when applicable.
- > If the exam is passed, the certificate will be issued by the independent certifier International Software Quality Institute (ISQI).

ISTQB® CERTIFIED TESTER – ADVANCED LEVEL (TECHNICAL TEST ANALYST)

Target audience

Software testers, software developers, project managers, quality managers

Prerequisites

Experience with software-based systems and software testing

Experience in software development is helpful.

Knowledge of specification-based testing techniques

Prerequisites for taking the exam are the successful completion of the exam to qualify as an "ISTQB® Certified Tester, Foundation Level" and at least 18 months of testing experience.

Code TT

Duration 3 Days



This seminar provides the basis for taking the exam to qualify as an "ISTQB® Certified Tester, Advanced Level, Technical Test Analyst". You will learn how important testing close to development is and become familiar with various lifecycle models. You will practice special testing techniques that will help you to implement testing efficiently and with a sufficient scope while taking non-functional requirements into consideration.

Upon completion of this seminar, you will be able to recognize errors early on in development instead of at the end in an elaborate system test. You will be able to establish testing close to development in your projects and perform the testing successfully.

Please note that further preparation at the end of each seminar day is recommended to succeed in passing the exam.

CONTENTS

The seminar content is equivalent to that in the curriculum published by ATB, GTB and STB:

- > The test analyst's tasks in risk-based testing
- > Structure-based testing
 - Condition testing
 - Modified condition/decision coverage testing
 - Multiple condition testing
 - Path testing
 - API testing
 - Selecting a structure-based technique
- > Analytical techniques
 - Static analysis
 - Control flow analysis, data flow analysis
 - Using static analysis for improving maintainability
 - Dynamic analysis
 - Memory leaks
 - Wild pointers
 - Analysis of performance
- > Quality characteristics for technical testing
 - Planning (tool, test environment, data security)
 - Security testing
 - Reliability testing
 - Performance testing
 - Resource utilization
 - Maintainability testing
 - Portability testing
- > Reviews and checklists in reviews
- > Test tools and automation
 - Integration of tools
 - Test automation as a project
- > Exercises for all significant topics

FURTHER INFORMATION

- > Additional exam fees charged when applicable.
- > If the exam is passed, the certificate will be issued by the independent certifier International Software Quality Institute (ISQI).

ISTQB® CERTIFIED TESTER – FOUNDATION LEVEL EXTENSION (AGILE TESTER) **NEW**

Target audience

Testers, team members of testing tasks, testing managers as well as functional and technical test analysts

Prerequisites

Prerequisites for taking the exam is the successful completion of the exam to qualify as an "ISTQB® Certified Tester, Foundation Level".

Code TFA

Duration 2 Days



This seminar provides the basis for taking the exam to „ISTQB® Certified Tester Foundation Level Extension Agile Tester“.

The foundation for this course is acquired in the ISTQB® Certified Tester – Foundation Level. In addition, the necessary expertise to successfully support an agile project as a testing specialist and effectively contribute your own experience in testing can be acquired during the course ISTQB Certified Tester® – Foundation Level Extension Agile Tester.

CONTENTS

The course content is equivalent to the curriculum published by ATB, GTB and STB:

- > Basics of agile software engineering
- > Traditional and agile testing practices
- > Completing test processes with expertise in agile projects
- > Information about planning of relevant testing activities (estimation of testing efforts)
- > Deployment of relevant testing methods, techniques and tools
- > Stipulation of quality criteria in agile projects
- > Successful cooperation in agile teams

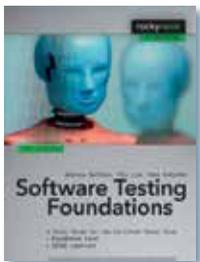
Please note that further preparation at the conclusion of each seminar day is recommended to succeed in passing the exam.

FURTHER INFORMATION

- > Additional exam fees charged when applicable.
- > If the exam is passed, the certificate will be issued by the independent certifier International Software Quality Institute (ISQI).

Graham Bath, Judy McKay

SOFTWARE TESTING FOUNDATIONS



Professional testing of software is an essential task that requires a profound knowledge of testing techniques. The International Software Testing Qualifications Board (ISTQB) has developed a universally accepted, international qualification scheme aimed at software and system testing professionals, and has created the Syllabi and Tests for the Certified Tester. Today about 300,000 people have taken the ISTQB certification exams. The authors of Software Testing Foundations, 4th Edition, are among the creators of the Certified Tester Syllabus and are currently active in the ISTQB. This thoroughly revised and updated fourth edition covers the Foundation Level (entry level) and teaches the most important methods of software testing. It is designed for self-study and provides the information necessary to pass the Certified Tester-Foundations Level exam, version 2011, as defined by the ISTQB. Also in this new edition, technical terms have been precisely stated according to the recently revised and updated ISTQB glossary. Topics covered: - Fundamentals of Testing - Testing and the Software Lifecycle - Static and Dynamic Testing Techniques - Test Management - Test Tools Also mentioned are some updates to the syllabus that are due in 2015.

4th Edition, Published April 4, 2014 by Rocky Nook, Pages: 304, ISBN-13: 978-1937538422

ISQI® CERTIFIED AGILE TESTER (CAT)

Target audience

Testing engineers, testing managers, testing consultants, development testers

Prerequisites

Experience in software-based systems; Knowledge of software and/or system testing or software/system development is helpful, but not required.

Knowledge of test design techniques, e.g. according to the ISTQB® Certified Tester Program, is expected.

Code CAT

Duration 5 Days



ISQI® Certified Agile Tester (CAT) training emphasizes the agile aspects of testing. Are you looking to augment your agile development process with a testing process that is just as agile? Do you want to implement the testing process in a way that is just as formal as required, and then use the resulting freedom for better, more intensive and strongly focused tests? Then the CAT® approach is right for you!

CAT® training is oriented toward practical application. Almost half of the seminar consists of practical exercises in which participants try out the most important aspects of agile processes on their own. The agile team formed to do this solves the set tasks together. Tasks include both test management and technical aspects.

This means that the training includes real work on agile testing projects – interaction within the team and with external factors – both the teaching and learning are highly practice oriented. It is expected that the participants have the necessary "soft skills" – such as the ability to work in a team – which are especially important in agile projects.

CONTENTS

- > History and terminology of agile processes (agile manifesto, agile principles and methods)
 - > Procedures according to Scrum (planning, daily scrum, review, retrospective)
 - > Planning and agile metrics (business value)
 - > Requirements and test
 - > Test monitoring (burndown charts)
 - > Testing and retrospective
 - > Test-driven development, test automation and testing of non-functional aspects
 - > Lean aspects (technical debt, testing debt)
-

FURTHER INFORMATION

- > Additional exam fees charged when applicable.
- > If the exam is passed, the certificate will be issued by the independent certifier International Software Quality Institute (ISQI).
- > The actual training requires four days. On the fifth day, the all-day written certification test is offered; it consists of a practical and a theoretical section; the theoretical section can be taken in English and German; English is currently the only option for the practical section of the test.

TESTING EMBEDDED SYSTEMS

Target audience

Software designers, software architects, software testers, software developers

Prerequisites

Experience with the development of embedded systems

Code ET

Duration 2 Days



In this seminar you will learn why and how the testability of embedded software must be taken into consideration early on during system design. You will learn which testing procedures are particularly suitable for which types of errors. You will practice techniques for automating testing for embedded systems. Upon completion of the seminar, you will be able to establish and apply the testing strategies you learned successfully in your own projects.

CONTENTS

- > Introduction to structured testing
 - Testing versus debugging
 - Test planning and test specification
 - Testing procedures in the software development process
 - Test protocols, test case management
 - Configuration management and testing
 - Project management, test management
- > Test creation and testing strategies
 - Requirements and test cases
 - Equivalence classes, limit value analysis
 - Structure testing (coverage metrics, control flow oriented testing)
 - Test end criteria
 - Black box testing versus white box testing
- > Improving the interaction between developing and testing
 - Requirements and test cases
 - Using software metrics and static analysis
- > Test-oriented development process
 - Testing real embedded systems
 - Regression tests
 - Case studies of tests of embedded software

HANDS-ON UNIT TEST WORKSHOP

NEW

Target audience

Developers, testers

Prerequisites

Experience in software development

Code UT

Duration 2 Days



Are you looking to introduce more unit tests to your software development? Would you like to establish a safety net for your existing applications? Would you like to receive training which is individually adjusted to your needs? Then our workshop on unit tests is the right solution. During this hands-on workshop, we will present techniques for software unit tests.

This course consists of many practical exercises with a continuous theme. The participants are able to acquire all aspects of unit testing by solving specific tasks themselves. We offer these exercises in different programming languages (C#, Java, C++ and C, further on request) to meet your companies requirements. Additionally, we will choose a selection of tools which are adjusted to your organization. After this workshop, your team will be able to directly use the acquired techniques in its everyday work.

CONTENTS

- > Introduction and basics of unit tests
- > Overview of tools used
- > Test driven development (TDD)
- > Behavior driven development (BDD)
- > Test doubles / mocks
- > Legacy code
- > Code coverage
- > Clean code
- > Dependency injection
- > Refactoring
- > Golden master

After the workshop, we encourage you to book one or more customized coaching day(s). The trainer will then focus on company specific challenges and individual participant's understanding, when using the prescribed methods during their everyday work. The seminar content can be deepened during the coaching.

INDIVIDUAL WORKSHOPS
ON TESTING

In addition to our wide range of courses in the field of testing, we offer individual support through in-house workshops directly at your location – at an attractive price.

- Only interested in certain topics of regular public courses, and want them to be dealt with in more detail?
- Want a combination of certain course topics, or want to add additional topics?
- Do you value increased practice, and want to apply what you have learned directly to your own problems with the support of the coach?

Then take advantage of our individual workshops that are tailored to the needs of your business. We are happy to support you directly in implementing the methods you've learned into your daily practice.

The advantage: you not only expand your own knowledge, you also gain valuable practical experience, thus securing knowledge and experience for your company.

Want more information, or have questions? Then please do not hesitate to contact us.

Contact Julia Thomas **Phone** +49 9131 97206-451 **Email** Julia.Thomas@methodpark.de

QUALITY ASSURANCE IN SOFTWARE AND SYSTEM DEVELOPMENT

Target audience

Quality managers / Quality assurance specialists in software and system projects

Prerequisites

None

Code QSS

Duration 2 Days



This seminar teaches you the basics of quality assurance in software and system development. The contents are adapted to those who define, plan and implement quality measures in projects (e.g. quality managers and quality assurance specialists).

The seminar provides you with the knowledge required to write good quality manuals, define metrics and implement reviews. In addition, you will learn about and discuss everyday issues facing those responsible for quality.

You will be introduced to various procedures with which the quality specialist can constructively support the implementation of software and system projects. Furthermore, you will gain insight into quality assurance methods in agile software development.

Finally, you will be provided with helpful tips as to how you, as a quality specialist, can motivate those involved in software and system projects to achieve higher quality.

CONTENTS

- > Basics of quality assurance
- > Role of quality managers and quality assurance specialists and their tasks in software and system projects
- > Organization of the quality assurance team and integration into the project structure
- > Procedure for quality planning and its significance
- > How to create a good manual for quality assurance tasks
- > Types and selection of quality measures according to your project goals
- > Various types of reviews and their application in the project
- > Quality assurance with SPICE
- > Preparation of SPICE assessments
- > Methods of quality assurance in agile projects (Scrum)
- > Quality status reports to various levels of management
- > How to use metrics for quality measurement in the project
- > Role of quality assurance in process improvement (process roll-out and process feedback)

> "A ship in harbour is safe, but that is not what ships are built for." <

(John Augustus Shedd, 1859-?, American author)



SAFETY RELEVANT DEVELOPMENT

ISO 26262 – FUNCTIONAL SAFETY FOR ROAD VEHICLES

Target audience

Managers (organizational areas), project managers, quality managers, system/hardware/software developers and testers in the automotive area

Prerequisites

Practical experience with development projects is advantageous.

Code IFS

Duration 2 Days



This seminar provides information in compact form regarding the current status of science and technology with respect to the safety standard ISO 26262 (Functional Safety for Road Vehicles). You will learn which new requirements will apply to your projects with the implementation of the standard for functional safety for road vehicles. Which sections of the safety standard ISO 26262 must you absolutely keep in mind for your projects? Which adaptations are you permitted to make? Is safety even a relevant subject with regard to your products?

With practical application examples and exercises you will acquire the necessary techniques for correctly assessing and preventing the hazards and risks that your product could cause. Afterward, you will be able to evaluate the effects on your system, software and hardware development and implement accordingly.

CONTENTS

- > Motivation and introduction to the safety standard ISO 26262
- > Overview of the safety lifecycle
- > Requirements for organization, management and processes
- > Setting up a hazard analysis, including ASIL classification and decomposition
- > Creating a functional safety concept
- > Required activities in system, software and hardware development
- > Examples of safety architectures
- > Qualification of software tools and components
- > Proof of safety and safety assessment
- > Legal aspects

The course consists of lectures, exercises and discussion and offers ample opportunity for asking questions and exchanging experiences.

INDIVIDUAL WORKSHOPS ON SAFETY-RELATED DEVELOPMENT

In addition to our range of courses in the field of **safety-related development (ISO 26262)**, we offer individual support through in-house workshops directly at your location – at an attractive price.

- Only interested in certain topics of regular public courses, and want them to be dealt with in more detail?
- Want a combination of certain course topics, or want to add additional topics?
- Do you value increased practice, and want to apply what you have learned directly to your own problems with the support of the coach?

Then take advantage of our individual workshops that are tailored to the needs of your business. We are happy to support you directly in implementing the methods you've learned into your daily practice.

The advantage: you not only expand your own knowledge, you also gain valuable practical experience, thus securing knowledge and experience for your company.

Want more information, or have questions? Then please do not hesitate to contact us.

Contact Julia Thomas **Phone** +49 9131 97206-451 **Email** Julia.Thomas@methodpark.de

AUTOMOTIVE FUNCTIONAL SAFETY PROFESSIONAL (AFSP)

Target audience

Safety Manager, Software and hardware developer, quality manager, project manager, system developer, system analysts

Prerequisites

None

Code AFSP

Duration

Module K2-K6: 1 Day each
AFSP (Modules K2-K6): 5 Days



In the automotive industry, the functional security of electrical and electronic systems has gained enormous importance – not least since the adoption of ISO 26262. So that your processes and systems satisfy the requirements of this standard, you and your employees need to have the corresponding know-how and expertise. Together with our partner SGS-TÜV Saar, we are in the position to offer you the qualification program necessary for this.

The training concept has a modular structure. Thus, you can select your program individually, and you can design your own training to be as effective as possible. In order to be able to take the examination to become an "Automotive Functional Safety Professional (AFSP)," participation in the K2 to K6 modules is necessary.

CONTENT

> Module K2: Safety Management and supporting processes

The ISO 26262 standard describes management of Functional Safety as the essential basis for the development of safety-relevant electronics in motor vehicles. In an illustrative way, this training module demonstrates the aspects to be considered when introducing an FSM system and the tasks faced by both the responsible safety managers at the quality level and the safety managers at the project level.

> Module K3: From the risk analysis to the functional safety concept

The agenda for Functional Safety is already set during concept development at vehicle level. This module addresses vehicle manufacturers as well as suppliers who need to know how safety objectives are defined and how functional safety requirements are derived. The current interpretation of the standard is presented and discussed in practical exercises.

> Module K4: Technical safety concept and system design

This module addresses the technical safety concept and the design of a system and its

sub-systems. In addition, issues relating to interface definition between the OEM and the supplier(s) are addressed. The module includes the application of safety analysis methods such as FTA in the design process. Understanding of the necessary activities is intensified in practical exercises.

> Module K5: Safety-orientated hardware development

ISO 26262 defines a specific approach to hardware design and safety analysis. There are various options available to satisfy the requirements. The advantages and disadvantages of these options are discussed in this module. The practical exercises include performing an FMEDA, with step-by-step explanation.

> Module K6: Safety-orientated software development

Beyond the demands of previously existing quality standards (SPICE, CMMI) ISO 26262 establishes further requirements focused on "Functional Safety". This training module presents in an illustrative manner the additional demands made on software development and their practical implementation.

FURTHER INFORMATION

> After attending the K2 to K6 modules, you will have the opportunity to qualify as an expert for functional security by taking and successfully passing the examination to become an "Automotive Functional Safety Professional (AFSP)."

Target audience

Software architects, software designers, software developers

Prerequisites

Experience in software development

Code SEC

Duration 3 Days



The news about security gaps in software are becoming increasingly commonplace, but it is no longer just software systems that are affected. As a result of increased networking, the software used in pacemakers, insulin pumps, cars and industrial automation systems is at much greater risk than manufacturers take into account. This makes for fatal results, particularly in functional safety.

The term 'IT security' is now on everybody's lips as a result of these news. However, there is still not enough attention being paid to secure development – security engineering or security by design. In order to constructively avoid security gaps, software has to be developed in a secure manner from day one.

This seminar has been designed to awaken a basic understanding in secure development, highlights threats and attacks and presents the appropriate methods for avoiding security gaps as much as possible throughout the entire software development process.

CONTENTS

- > Introduction
 - Definition of security and differentiation to safety
 - Protection goals, threats and weaknesses
 - Basic security features
- > Attacks
 - Types of hackers
 - Web security (including XSS, CSRF and countermeasures)
 - Memory-based attacks and countermeasures
 - Social engineering
- > Development process
 - Software Assurance Maturity Model (SAMM)
 - ISO 27034
 - Microsoft SDL
- > Security requirements
 - Misuse cases
 - Context analysis
- > Security design
 - Attack surface reduction
 - Threat modelling
 - Design principles
- > Secure development
 - Typical errors
 - Techniques
 - MISRA coding guidelines
- > Security testing
 - Differentiation to functional testing
 - Penetration tests
 - Fuzzing

> "Consider something easy is one of the hardest things in the world." <

(Jiddu Krishnamurti, 1895-1986, Indian philosopher)



VARIANT MANAGEMENT

VARIANT MANAGEMENT IN SOFTWARE AND SYSTEMS ENGINEERING

Target audience

Software and system analysts (system engineers), requirements engineers, software architects, project managers, testers, quality managers, project managers, product managers

Prerequisites

Overview of Development Processes, Foundations of Software and Systems Engineering

Code VM

Duration 3 Days



This course covers the variant management methods and tools. The motivations, benefits, and risks of variability in the development process will be explained as well as approaches for mastering the complexity involved. You'll learn to analyze, to understand, and to control variability. All phases of the development process will be discussed in detail and possible tool-based solutions will be presented. At the end of the seminar you'll know how to design variability-aware requirements, architectures, code, and tests. Additionally, you'll know processes and organizations have to be structured in order to cope with systematic variant management. By means of variant costing in product derivation, you'll be able to take technical and economic aspects in the development into account. A running example is used throughout the entire seminar.

CONTENTS

- > Reasons for and impact of variability
- > Differences between complexity management, configuration management, and knowledge management
- > Variant management basics
- > Product line management process
- > Organizational structures
- > Typical migration process for variant management in product lines
- > Variability visualization and extraction
- > Scoping and dependency analysis
- > Implementation of variant management in the software and system life cycle
- > Test-effort reduction
- > Tool support
- > Strategy and evaluation
- > Variant costing
- > Product-portfolio optimization



INDIVIDUAL WORKSHOPS ON SOFTWARE PRODUCT LINE ENGINEERING TOOLS

In addition to our wide range of courses on variant management we offer you individual support through in-house workshops directly at your location.

If you're wondering how your tools – whether pure::variants or Polarion variants – can help in the development of your software product lines, then book an individual, two-day in-house workshop with us. There you'll have the opportunity to try out these tools. After this workshop, you'll know all about the basics of feature modeling and practical work with feature models in each tool. Your advantage: Method Park consultants are experts independent of tools, and can advise you without any manufacturer bias regarding all the challenges of variant management.

Want more information, or have questions? Then please do not hesitate to contact us.

Contact Julia Thomas **Phone** +49 9131 97206-451 **Email** Julia.Thomas@methodpark.de

COMPLEXITY AND VARIANT MANAGEMENT

NEW

Target audience

Experts, executives, project managers, quality managers, product managers, development managers

Prerequisites

Overview of development processes

Code KM

Duration 2 Days



During this course, you learn about methods and tools of complexity and variant management and how to use them. We will explain reasons, advantages, and risks of product diversity and present solutions for the complexity it causes in the product development. You will learn how to identify drivers of variability and complexity and how to analyze as well as understand and control complexity. Besides methods of controlling complexity, you will learn how to offer a wide range of products to your customers while still controlling complexity. This is achieved by means of product portfolio analysis and variability-aware product design combined with systematic reuse. To complete this course, we will provide an overview of tool-based complexity and variant management and a consistent example case.

CONTENTS

- > Reasons and effects of complexity
- > Drivers for variability and complexity
- > Challenges of variant-rich systems
- > Basics of complexity management
- > Analyzing and understanding complexity
- > Internal and external complexity
- > Methods to control complexity
- > Strategy and product portfolio analysis
- > Variability-aware product design
- > Cost evaluation of variants
- > Tool support

EXPERT WORKSHOP:
VARIANT MANAGEMENT

Do you want to sell your products in an increasing number of variants in order to maximize your market potential and set yourself apart from your competitors? Do you want to meet the needs of your customers while at the same time save on product development costs, shorten your time-to-market and improve product quality? Then the systematic reuse of components must take priority over isolated single-product development.

If your business wants to optimize its product portfolio, it must implement efficient systems for managing different versions of the same product.

- How can mass production and customized system development be combined?
- How do you manage the complexity that accompanies with this diversity?
- How does the product line engineering approach help to achieve this?

This expert workshop offers specialized lectures on everything involving variant management in addition to the opportunity to submit requirements from your day-to-day project work as part of a call for problems. You can then collaborate to develop solutions to these problems. In addition, there will be an open space where you can discuss your individual interests with our experts and other attendees.

After the workshop, the day will finish off with snacks and a networking event where you will have an opportunity to elaborate on the various discussions.

For more information, visit our website: www.methodpark.com/vm-workshop.html



GETRAG FORD Transmission GmbH

GETRAG is one of the largest system suppliers for transmissions worldwide. Founded in 1935 as a family business, the company today combines the creative strength of its roots with the reach and flexibility of a global corporation.

Headquartered in Unterturkheim/Germany, GETRAG manufactures and develops passenger car transmission products and solutions for the important automotive markets Europe, Asia and North America always staying close to its international customers with 23 locations and about 13.250 employees worldwide.

With future oriented, versatile and innovative solutions, GETRAG fulfills even highest requirements on modern transmission systems. The company covers the entire process chain from the idea via concept, design, prototypes, vehicle integration and testing all the way up to mass production.



"Method Park supported us with the revision of product development processes for transmission projects and guaranteed the compliance of processes to Automotive SPICE. Furthermore, an employee of Method Park was actively engaged in coaching the processes of a customer project. The lead assessment role for GETRAG internal projects as well as for a supplier project was performed by Method Park. GETRAG appreciates the expertise and professionalism of Method Park."

Dr. Cornelius Otten
Process Consultant PD
Process Management
GETRAG FORD
Transmissions GmbH



GENERAL TERMS AND CONDITIONS OF
METHOD PARK CONSULTING GMBH

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GENERAL TERMS AND CONDITIONS OF METHOD PARK CONSULTING GMBH FOR PUBLIC SEMINARS

§ 1 General¹

All services in connection with public seminar events are subject to these General Terms and Condition ("AGB") of Method Park Consulting GmbH, Wetterkreuz 19 a, D-91058 Erlangen.

You accept these AGB by registering for any seminar.

Any changes to these AGB are communicated to the attendant in writing or in text form, particularly by e-mail, highlighting the changed provisions. Changes are deemed agreed, if the participant does not object in writing within 14 days after they have been brought to his attention. The customer is explicitly informed about the consequences of non-objection when he is informed about changes to the AGB.

§ 2 Registration and conclusion of contract

Registration with Method Park Consulting GmbH for the seminars is possible over the Internet (www.methodpark.de), in writing, by fax, or by e-mail.

In the case of telephone inquiries, a seat is reserved upon request and Method Park Consulting GmbH will feel bound to that reservation for a period of two weeks. If no written or electronic registration is received within that period, the reservation expires.

After receipt of the registration, the customer receives a registration confirmation. The contract for the attendance in the relevant seminar is concluded when the customer receives that registration confirmation.

In order to ensure the success of the seminars, the number of participants is limited. Registrations will be taken into account in the order in which they are received. Registration data is stored electronically in order to process the registration.

To make hotel selection easier, Method Park Consulting GmbH will send a list of hotels at the relevant event location to the seminar attendant. The seminar attendee is responsible for the booking of the corresponding hotel.

§ 3 Statutory cancellation right for consumers

Consumers in the sense of Section 13 of the German Civil Code (BGB) have a cancellation right pursuant to Section 355 BGB.

[Cancellation information for consumers if the seminar contract is concluded by means of telecommunication \(e-mail, fax, telephone, etc.\)](#)

You may cancel your contract declaration (in the present case the registration for the seminar) in text form (e.g. letter, fax, e-mail) within 14 days without having to state any reasons.

This deadline begins when you receive this information in text form, however, not before the contract is concluded and not before we have fulfilled our information obligations pursuant to Article 246 Section 2 in connection with Section 1 paragraph 1 and 2 of the Introductory Act to the German Civil Code (EGBGB). It is sufficient to send out the cancellation in time in order to meet the cancellation deadline.

The cancellation must be addressed to:

Method Park Consulting GmbH
Wetterkreuz 19 a
91058 Erlangen
Germany
trainingcenter@methodpark.de

[Consequences of cancellation:](#)

In the case of an effective cancellation, the performances received by either side must be returned and any benefits that have been obtained (interest) must be surrendered. If you are unable to return or surrender the received performance and any obtained benefits (e.g. use and enjoyment) at all or only partially or only in a deteriorated condition, you have to compensate us insofar for the value. This may result in you having to fulfill the contractual payment obligations for the period until the cancellation nevertheless. Obligations to refund payments must be fulfilled within 30 days. The period begins for you when you dispatch cancellation statement and for us when we receive it.

[Special instructions:](#)

Your cancellation right expires prematurely, if the contract is completely fulfilled by both sides upon your express demand before you have exercised your cancellation right.

End of the cancellation information

§ 4 Contractual cancellation right

The registration may be cancelled free of charge until 14 days before the beginning of the event; the time when the cancellation is received by Method Park Consulting GmbH shall be decisive.

The cancellation must be declared in writing and be addressed to:

Method Park Consulting GmbH
Wetterkreuz 19 a
91058 Erlangen
Germany
trainingcenter@methodpark.de

Cancellations or no-shows for the seminar after that date cannot be taken into account and the full seminar fee is charged. The participant has the right to demonstrate that Method Park Consulting GmbH has suffered damages to a lesser extent.

This shall not apply when a substitute attendee is named. This is possible until the registration at the beginning of the event.

§ 5 Naming substitutes

The participant may, after receiving the registration confirmation, name a substitute in writing prior to the beginning of the seminar. This change of reservation is free of charge; seminars spanning several days may be transferred only in their entirety, i.e. attended by one substitute.

§ 6 Date cancellations and date changes

Method Park Consulting GmbH has the right to change the location of events and/or specify a different date as a substitute. Method Park Consulting GmbH also reserves the right to cancel dates for organizational reasons (e.g. number of participants too low, illness of the speaker at short notice). Method Park Consulting GmbH will notify the participant of the cancellation and of the reason without undue delay and will attempt to change the participant's reservation, provided that he agrees, to a different date or event location. Otherwise, the full amount of any already paid attendance fee will be refunded in the case of a cancellation; no further claims exist, particularly no refund of travel and/or accommodation costs.

§ 7 Seminar fees

All prices are per person plus the respective applicable statutory value-added tax.

The seminar fee includes the seminar documentation, coffee breaks, lunch, and refreshments during the event.

Attending only part of a seminar does not grant the right to reduce the seminar fee.

In case of seminars where a final test has to be taken at the end, additional test fees arise, which are charged separately by the relevant institutes (INTACS, ISQI, ISTQB, VDA-QMC).

Furthermore, each seminar can also be booked as an individual in-house seminar. It is possible here to hold the seminar either in the customer's premises or in the premises of Method Park Consulting GmbH.

The "General Terms and Conditions of Method Park Consulting GmbH for In-house Seminars" apply to in-house seminars.

Payment terms

Fees are due immediately without deductions upon receipt of the invoice.

All payments are due immediately without deduction.

Default occurs if the customer still does not pay even after a reminder from Method Park Consulting GmbH.

The first dunning letter is free of charge. For each additional dunning letter, the dunning and processing fee is increased by EUR 5.00 in each case.

In the case of late payment, default interest at a rate of 5 percentage points above the respective base interest rate for consumers in the sense of Section 13 BGB will be charged. In the case of transactions where no consumer in the sense of Section 13 BGB is involved, interest at a rate of 8 percentage points above the base interest rate will be charged in the case of late payment.

§ 8 Seminar material, scope of service, event locations and dates

Scope of service, event locations, and the individual dates of the relevant seminars are listed on the Internet under www.methodpark.de and are also shown in the seminar brochure.

The seminar material is handed out at the beginning of the seminar.

§ 9 Copyright

Seminar material that is handed out in connection with the events are protected by copyrights and may not – not even in excerpts – reproduced, particularly not using electronic systems, or used commercially without the prior written consent of Method Park Consulting GmbH and of the relevant speakers.

§ 10 Copyrights and trademarks

Software is used in the seminars of Method Park Consulting GmbH which is protected by copyrights and trademarks. This software may not be copied or otherwise processed or reproduced in a machine-readable form and may not be removed from the seminar room either.

§ 11 Liability

All seminars are prepared and held with the greatest possible care. An attentive participant will be able to reach the seminar goals. We do not take over any liability that the training will be successful.

Participants are generally not allowed to play any data storage media brought in by them on computers of Method Park Consulting GmbH.

Method Park Consulting GmbH will provide participants with free Internet access during the seminars. Websites with pornography, ideas of the radical left or the radical right, of radical religious groups or sects may not be intentionally accessed on the Internet. In cases of violation and any resulting damage, Method Park Consulting GmbH reserves the right to file claims for damages.

Method Park Consulting GmbH shall only be liable for damage, irrespective of the legal ground of its liability, only insofar as Method Park Consulting GmbH, its legal representatives, or its vicarious agents can demonstrably be accused of intent or gross negligence.

This shall not apply in cases of personal injury, i.e. injury of life, body, or health and in the case of liability under the Product Liability Act and in the case of a breach of duty the satisfaction of which only enables the proper execution of this contract at all and with which compliance the contractual partner relies and may rely on (material contractual duties or cardinal duties (Kardinalpflichten)).

In the case of slight negligence, the liability of Method Park Consulting GmbH, its legal representatives or vicarious agents is limited in the case of material contractual duties to the foreseeable damage that is typical for the contract, unless the damage is based on injury of life, body, or health or under the Product Liability Act.

Any liability of Method Park Consulting GmbH, its legal representatives or vicarious agents pursuant to the foregoing paragraph 6 of this Section 11 shall in regard to each seminar booked by you be limited to the maximum amount of EUR 1,000 (one thousand).

Beyond this, any liability based on slight negligence is excluded.

Method Park Consulting GmbH shall not be liable for the loss or theft of property brought along by attendees.

The limitation period for damages shall be in the case of contractual and non-contractual liability one year after the claim arose and knowledge of the basis of the claim, except in cases of intent, gross negligence, under the Product Liability Act, or in the case of personal injury.

§ 12 Data protection

Customer data is stored and processed in strict compliance with the German Federal Data Protection Act (Bundesdatenschutzgesetz (BDSG)).

Customer data such as e.g. name, address, communication data, place of residence or business, are stored and processed in machine-readable form, if this is necessary for the performance of the contract with the attendee.

§ 13 Notice

When a new seminar brochure appears, which can be found on the Internet at the same time, all previous price and date lists become invalid.

§ 14 Miscellaneous

German law applies exclusively.

Erlangen as the registered seat of Method Park Consulting GmbH is deemed agreed as exclusive place of venue for all disputes resulting from the contractual relationship, in the case that the seminar participants are merchants, legal entities under public law, or funds under public law, or if one of the parties has no general place of venue within Germany or relocates its place of residence or permanent dwelling abroad or if its place of residence or permanent dwelling is not known at the time when the lawsuit is filed.

§ 15 Severability

If individual provisions of these AGB should be ineffective or unenforceable or become ineffective or unenforceable after the contract is concluded, the effectiveness of the rest or of the other clauses shall remain unaffected.

As of October 2015

¹ It is pointed out in the sense of the German Anti-Discrimination Act (AGG) that the male form of the parties referred to is used hereinafter for purposes of simplification.



▶ **methodpark**

Method Park

Wetterkreuz 19a
91058 Erlangen
Germany

Tel. +49 9131 97206-0

info@methodpark.de

www.methodpark.com