INNOVATION – TRANSFORMATION – COMPLIANCE
KNOW-HOW SOURCING FOR YOUR SOFTWARE & SYSTEMS ENGINEERING

Training 2018/19
"An investment in knowledge pays the best interest."
(Benjamin Franklin, 1706-1790, Founding Father of the United States)
DEAR READER,

Knowledge is the intellectual capital of organizations and one of the most important resources. Properly applied, knowledge, experience and know-how ensure the future of humans and organizations, societies and economies.

Knowledge quickly becomes obsolete if it is not continuously renewed and expanded. The employees’ willingness for life-long learning is crucial for the success of organizations.

Method Park offers you a broad course program on all topics of software and systems engineering: from requirements engineering over architecture to testing and quality assurance, from process, variant and project management over safety-relevant development to the introduction of agile methods.

Practical relevance is very important to the Method Park course instructors, so this course program offers various new hands-on workshops. Exercises on the basis of practical examples are an essential part of these workshops – you have the chance to acquire all aspects of a topic by working out specific tasks yourself.

The Method Park Training Center provides you with the crucial advantage in know-how and encouragement for personal development and individual careers.

Course contents and topics cannot always be universally formulated. Organizations have individual requirements and company-specific questions. They need individualized answers and knowledge has to be practice-oriented and tailored to customized needs.

This service is offered by the Method Park Training Center. Method Park customizes public courses, training and workshops to the individual situation of your company. In exclusive in-house courses at your company site, Method Park trainers impart knowledge and skills to you and your team, to master the challenges of your next project for instance, or an upcoming tool implementation.

Invest in your future! Bring your knowledge up-to-date and stay curious. The Method Park Training Center prepares you for current and future challenges in software and systems engineering.

We look forward to seeing you!

Prof. Dr. Bernd Hindel
CEO Method Park
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GENERAL TERMS AND CONDITIONS OF METHOD PARK HOLDING AG

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Early Bird Discount 10%!
Practically Transfer Compact Knowledge

Receive compact knowledge on the subject of software and systems engineering in public courses, in-house training and workshops. Experienced trainers with profound theoretical knowledge and years of practical experience in customer projects, clearly deliver course contents with competence. You will benefit from presentations, discussions and numerous exercises in which you train in both theory and practice.

We also directly support you in your specific projects with workshops and consulting on the practical application of gained theoretical knowledge.

You can book a consultant for you and your team, who supports your company on-site with customized in-house workshops or individual coaching. For further assistance directly at your workplace, we offer individual consulting and support.

Public Courses

Extend your knowledge advantage in a pleasant environment. Each course starts at 9:00 a.m. and ends around 5:00 p.m. We welcome you with a cup of coffee or tea to start the day. At lunchtime, we invite you to enjoy a menu from the buffet in our casino or to a restaurant. Upon your request, we offer vegetarian or diet meals. During the breaks, we offer drinks and small delicacies. You receive detailed training material at the beginning of each course. At the last course day, you receive a certificate on your successful participation. Take advantage of our course program to specifically enhance your know-how and find almost all the comfort of home!

Your Benefits

- Certified and internationally approved training
- Experienced trainers with years of theoretical and practical experience in customer projects
- Trainers with advanced know-how gained in international research projects
- Individual and personal service for comfort

In-house Courses

You need course contents customized to the individual requirements of your company? You are planning further training for several employees? In-house training pays off if you would like to train more than four employees. Of course, we also organize courses of your choice directly at your site and you eliminate travel time and save accommodation costs for courses lasting several days. You receive a course which is exactly tailored to your company-specific needs.

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

Your Benefits

- Time saving, no travel required
- Cost saving for courses lasting several days, no accommodation needed
- Cost saving through course package price
- Individual course tailored to the needs of your organization

General Information

Please find prices and dates of our courses in our enclosed leaflet. The course fee, plus VAT, includes event-related course material, lunch, hot and cold drinks during breaks, fruits and pastries.

If you have further questions about our courses, please contact us.

Phone: +49 (0)9131 97206-263
Email: trainingcenter@methodpark.de
Workshops/Coaching

You attended a course and understood theoretical contents, but need support to practically implement it? That’s where Method Park workshops and coaching come in. One of our consultants supports you and your team on-site, in a customized in-house workshop or individual coaching. This means you are supported when it comes to implementing the learned methods into your daily practice, so you gain not only knowledge but also valuable, practical experience. Your colleagues also benefit from the transfer of knowledge and experience, since we support you on how to transmit your knowledge. Ensure knowledge acquisition for your company and let us support you and your project team on implementation with experienced consultants!

Your Benefits

- Optimal transfer of acquired knowledge to your daily practice
- Individual, personal guidance in implementation at your workplace
- Support for the transfer of your knowledge to other employees

Consulting

For many years, Method Park consultants have successfully consulted and supported on all topics of software and systems engineering. They support you as a coach; identify weaknesses and unleash potential. Method Park consultants individually support you on the continuous optimization of your processes and on-site pave your way for successful assessments and audits. They ensure your successful transition to new technologies and development methods. Goal-driven, Method Park consultants support your compliance with legal or industry-specific standards, such as CMMI or SPICE. They raise awareness among your employees, of the need for quality assurance, by designing and realizing appropriate testing processes. Method Park consultants offer you their expertise in all classical engineering disciplines:

- Software Engineering
- Systems Engineering
- Application Life Cycle Management (ALM)
- Process Improvement with Automotive SPICE®
- Safety & Security
- AUTOSAR
- Agile Transformation
- Project Management

With collaborative consulting and targeted know-how transfer, Method Park consultants promote your teams’ autonomy and prepare you to master all challenges of modern software and systems engineering.
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 cannot be achieved by implementing standards and norms that are to the letter and monitoring them by a compliance department. Instead, the central process group sees itself as a service provider within its own company. Employees are customers who, together with their colleagues, would like to reach organizational goals. Only when the process group understands the scenarios and problems of its customers (= employees) 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 helps you to anchor this culture in your company, and then build on that basis the profitable process concepts you need. Method Park consultants master 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 advise you in optimizing your development processes and building your engineering competencies under OEM or legal requirements.

Method Park consultants offer process consulting, training and coaching and are at your disposal 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 concentrated form, information on the various topics of software and systems engineering. In 45 minutes, you 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 presenter questions about your individual challenges. At the same time, you can get to know our course instructors.

The Paperless Course

“Information at your fingertips.” – That is how Bill Gates defined the future of digital transfer of knowledge in 1995. Meanwhile many organizations largely abandoned paper documents and documentation files to protect the environment. To enable you to increase your efficiency during training, Method Park offers you availability of information, at the touch of a button in all courses. On request, you receive digital course material. This enables you to download slides and work sheets via web-app to your own smartphone or tablet or use the Apple iPad Pro with pencil, which is available for participants during the course.
Our Course Instructors Effectively Support You in Your Projects

**Our course instructors**

**Peter Baumann**

Works as Senior Software Engineer at Method Park. He focuses on systems engineering and the development of agile software architecture for projects in the medical technology sector. He coaches his customers on software development and consults on questions about process and test design.

Peter Baumann is iSQI® Certified Professional for Project Management, iSAQB® Certified Professional for Software Architecture – Foundation Level, IREB® Certified Professional for Requirements Engineering – Foundation Level and Certified Scrum Master.

**Richard Baumann**

Is Software Engineer at Method Park. As part of the Internet of Things team, he consults and trains Method Park customers on challenges in IT security and cybersecurity in the Internet of Things. He is particularly experienced in topics such as code obfuscation, social engineering and reverse engineering.

**Jasmina Becker**

Works as Senior Consultant in the process definition of Method Park and is involved in projects of quality assurance for major customers. She trains, particularly in the automotive industry, Method Park customers on topics of quality management and develops web-based training accordingly. Her special expertise is the maturity measurement framework SPICE.

**Dr. Ulrich Becker**

Is Principal Consultant at Method Park and supports his customers on the improvement of 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 has significant involvement in the creation of the iSAQB® Advanced Level curriculum, for safety-critical embedded systems. He regularly gives lectures at specialist group meetings and conferences. Ulrich Becker is an iSAQB® Certified Professional for Software Architecture – Foundation Level and an ISTQB® Certified Tester – Foundation Level.

**Dr. Oliver Hammrich**

Is Team Leader of Product Consulting at Method Park. With his team, he consults and supports Method Park customers on the configuration and implementation of the process management tool “Stages”. Together with Method Park Assessors for SPICE and CMMI®, Oliver Hammrich developed comprehensive Best Practices, which are the subject matter of the course “Process Management 4.0” and methodical basis for the implementation or improvement of process management.

**Dr. Uwe Hehn**

Is Method Park Principal Consultant in software and system development projects and software testing. His key areas are consulting on topics relating to software and system development processes, based on SPICE (in particular Automotive SPICE®) and CMMI® and gives training on software testing and process topics. He is a member of the executive committee for the TAV (testing, analysis, and verification) group of the German Informatics Society (GI). He regularly gives lectures at the University of Erlangen-Nuremberg on such topics as “Automotive Software Development Today”. He is co-author of...
Course Instructors

"Mit CMMI Prozesse verbessern!" (Improving processes with CMMI) and "SPICE im Unternehmen einführen" (Introducing SPICE in your company). Uwe Henn is intacs™ Principal Assessor (Automotive SPICE®), ASQF® Certified Professional for Project Management and ISTQB® Certified Tester – Full Advanced Level.

Prof. Dr. Bernd Hindel

Founded the Method Park Group in 2001. He is lecturer for software engineering and project management at the University of Erlangen-Nuremberg and guest lecturer at the Universities of Augsburg and Würzburg and at the AutoUni of the Volkswagen AG.

Prof. Hindel is the founder of ASQF e.V. (Association for Software Quality and Training) and was President of the ASQF from 1996 to 2007. He is co-founder of the iNTACS e.V. (international Assessor Certification Scheme for SPICE Assessors). From 2004 to 2006, Prof. Hindel was the President of INTACS and is currently a member of the iNTACS Advisory Board. He is also a member of the DIN Institute, Prof. Hindel was the Chairman for Software and Systems Engineering Standards and represented Germany in this role in the ISO/IEC JTC1 SC7 from 2007 to 2009. During this time, he also was the German representative in the ISO working group to define SPICE.

To date, Prof. Hindel was the Keynote and Program Committee Chairman at several international conferences on software quality, including the World Congress for Software Quality in Munich in 2005 and in Shanghai in 2011. Professor Hindel is the author of numerous articles and books on software engineering.

Timo Karasch

Works for Method Park Senior Consultant focusing on Automotive SPICE®, functional safety and project management. As certified Automotive SPICE® Competent Assessor, Timo Karasch performs maturity measurement assessments and provides support on process improvement projects in the implementation of standard requirements of Automotive SPICE® and ISO 26262. He is 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. Timo Karasch is intacs™ Principal Assessor and Instructor (SPICE and Automotive SPICE®), ECQA Certified Functional Safety Manager and VW Software Quality Improvement Leader (SQIL).

Sebastian Kern

Is Team Leader of Medical Devices at Method Park. He focuses on topics such as agile testing, project test management, project process improvement and regulatory requirements in medical technology. Sebastian Kern is Certified Scrum Master, ISTQB® Certified Tester and Automotive SPICE® Provisional Assessor.

Klaus Lamm

Is Senior Consultant at Method Park. He focuses on requirements engineering, quality management and functional safety. He supports the definition of processes, particularly in the requirements engineering of OEMs and tier one suppliers, consults customers in the automotive industry on processes for quality improvement.

Klaus Lamm is IREB® Certified Professional for Requirements Engineering – Foundation Level, Six-Sigma Black-Belt, Certified Quality Manager and Quality Assurance Representative and Auditor (TÜV), IATF16949 and VDA6.3 Auditor (1st/2nd Party), APIS-IQ-FMEA Certified Professional and graduated as project manager.
Course Instructors

Our Course Instructors Effectively Support You in Your Projects

Our course instructors / continuation

Dr. Tobias Maier

Is Principal Consultant at Method Park, where he advises customers from the medical technology industry on regulatory affairs (IEC 62304, ISO 13485, ISO 14971) and architecture and provides support in the management of automotive projects. Tobias Maier is member of the Association of German Engineers (VDI), where he has been a member of the “Quality Assurance for Software in the Medical Technology Industry” expert committee since 2014. Tobias Maier is iSAQB® Certified Professional for Software Architecture – Foundation Level, IREB® Certified Professional for Requirements Engineering – Foundation Level, intacs™ Provisional Assessor (Automotive SPICE®) and an IPMSB Certified Professional for Medical Software. He has also been IPMA Level C certified since 2013.

Christoph Menzel

Is Software Engineer at Method Park. Among other assignments, he is responsible for the design and implementation of software, optimization of development processes and giving training on topics such as unit tests and different aspects of software development.

Dr. Jürgen Schmied

Is CEO of Method Park Consulting GmbH and pools together Method Park’s consulting services for all customer sectors. Jürgen Schmied is specialist for 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 Wurzburg, he gives lectures on “Management in Software Engineering”. Jürgen Schmied is intacs™ Principal Assessor for SPICE and Automotive SPICE®, Certified CMMI Instructor by the CMMI Institute, trainer and expert on process improvement and management. He is instructor for intacs™ Provisional and Competent Assessors.

Bernhard Sechser

Is Principal Consultant at Method Park. He focuses on consulting and training on such topics as functional safety, software and systems development processes, implementation of process improvement projects and SPICE assessments. Bernhard Sechser is intacs™ Principal Assessor and Instructor (SPICE and Automotive SPICE®), ASQF® Certified Professional for Project Management and ISTQB® Certified Tester – Foundation Level and an iSAQB® Certified Professional for Software Architecture – Foundation Level.

Dr. Christian Wawerisch

Is Senior Software Engineer at Method Park. He contributed 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 iSAQB® Certified Professional for Software Architecture – Foundation Level and intacs™ Provisional Assessor (Automotive SPICE®).

Please find further information about all Method Park course instructors on our website: www.methodpark.com/course-instructors
"In all things success depends on preparation."
(Confucius, 551 B.C.-479 B.C., Chinese philosopher)
Process Management

**intacs™ Certified Provisional Assessor (Automotive SPICE®)**

This seminar prepares you to take the exam for qualification as an "intacs™ Certified Provisional Assessor (Automotive SPICE® v3.1)". You will become familiar with the Automotive SPICE® v3.1 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.

**Content**

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 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® v3.0 assessment model
- Assessment exercises for processes in the HIS scope of Automotive SPICE® v3.0 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**

- Additional exam fees charged when applicable
- 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](http://www.intacs.info).
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:

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.

Content

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 snags, 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

- Additional exam fees charged when applicable
- 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.
Process Management

Automotive SPICE® V3.1

Target audience
Employees in process groups, Quality and project managers who have to ensure compliance to require-
mements of the Automotive SPICE® process assessment model, Project team members who are in charge of developing systems compliant to requirements of the Automotive SPICE® v3.0 process assessment model.

Prerequisites
none

Code
SHU

Duration
3 days

The price of this seminar includes:

This course provides you with an overview of the VDA scope of Automotive SPICE® 3.1 processes (previously HIS scope). This course is offered as integral part of intacs™ Certified Provisional Assessor (Automotive SPICE® v3.1) course. You will participate the first three days where you will gain an insight into the Automotive SPICE® model, from the perspective of a quality manager, assessor or project team member, who would like to prepare for an assessment. You will discuss practical problems that can occur in an assessment and what the respective process improvements could look like.

Content

- Overview and motivation for process assessment according to ISO/IEC 330xx
- The measuring system: process profiles and assessment of capacity levels
- 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
- Improvement potential regarding the listed processes
- Interpretation of levels 1-3
- Exercises/example case for process assessment

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

Further Information

- This course is exclusively held by experienced intacs™ Certified Competent and Principal Assessors, with extensive experience in the practical implementation of assessments according to Automotive SPICE®.
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.

**Content**

- 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® V3.1**

Automotive SPICE® is indispensible in automotive software and systems development. Since summer 2015, Automotive SPICE® 3.1 has been in line with the current version of this industry-specific standard.

Numerous changes come with Automotive SPICE® 3.1. 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® 3.1, and perform assessments with the new version.

Additionally, all innovations of the 3.1 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 3.1 handy. This app is available for iOS-based systems as well as Android devices, on iTunes and the Google Play store.
The training provides best practice methods and techniques for all areas of process management that were accrued in more than 15 years of experience in which Method Park performed worldwide process audits at more than 700 engineering organizations. As a participant, you will benefit from:

- a 360° view with which you will be able to identify the potential for optimization in the process management of your company

- the tools with which you can initiate appropriate improvements or carry them out yourself.

**Intensive course:** To make the best use of the training, the focus areas (see below) as well as the selection of the exercises are adapted to the requirements of the respective participants. This also creates space for discussion and exchange of experience.

**Workshop:** The training is conducted as an interactive workshop: In addition to the presentation parts, which provide an overview and convey the tools, the individual topics are deepened by exercise examples or current challenges of the participants. The training is thus also a platform for discussion and exchange of experience.

**Content**

- **Motivation**
  - What do digitalization and Industry 4.0 mean for process management?
  - Process modeling instead of process description and what it facilitates
- **Setting objectives**
  - How process management can support business objectives and why it should
  - How can one derive meaningful metrics from the objectives?
- **Analysis of the current state**
  - Dimensions of the analysis of the current state (process capability) and why we have to consider it for process management (influencing factors)
- **Process architecture**
  - Techniques for process reuse for modularization or variant creation
  - The value chain as an architectural founder
  - Architectural challenges of engineering processes
- **Process definition**
  - Process-collection techniques
  - Modeling guidelines
  - The RASIC model of the responsibility of roles in the process
  - Compliance with norms, standards and maturity models
- **Process implementation (process roll-out)**
  - Methods and aspects of process introduction
  - Process management
  - Roles and structural organization of process management
  - The process of process management
  - Feedback-, change-, and release management
- **Organizational changes (only in the 3-day workshop)**
  - Psychological implications and effects
  - Attitudes
  - Dealing with resistances
- **Organizational culture (only in the 3-day workshop)**
  - Processes as part of the organizational culture
  - Quality approach

**Target audience**

All roles and functions in the context of process definition, process improvement, process modeling or process roll-out

**Prerequisites**

- **Intensive course:** Basic knowledge in the description or modeling of processes
- **Workshop:** Initial experience in a role or function in the context of process management (see target group)

**Code**

PM, PMW

**Duration**

- 1 day – intensive course (PM)
- or
- 3 days – workshop (PMW)

**Weitere Informationen**

- Exclusively process consultants with extensive and longstanding experience in all areas of process management serve as trainers for this course.
- English course materials are used.
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
Transfer of Knowledge – Exchange of Experience – Networking

Share your know-how and learn from the experience of others. With the free series of “Talk in the Park” events, which started in 2011, Method Park has been offering all interested parties, a platform for this exchange at its locations in Erlangen, Munich, Stuttgart and Detroit.

This platform offers the opportunity for cross-sectoral exchange of know-how with presentations and discussions on current topics, relating to software and systems engineering.

After the presentations, participants have the opportunity to network and exchange knowledge and experience on specific topics, in a relaxed atmosphere with finger food and drinks.

You are interested in listening to exciting presentations and exchanging know-how and experience on topics relating to software and systems engineering? Please find our current topics and dates here and register for one of our events:

www.methodpark.com/talk-in-the-park.html

You have the chance to download our previous presentations from our archive as pdf.
"The secret to success is constancy of purpose."
(Benjamin Disraeli, 1804-1881, British Prime Minister)
In this course, learn about advanced project management methods based on the international standard ISO 21500:2012. Method Park will provide an overview of basics and terms for project management in all relevant sectors, including knowledge about required quality assurance, process maturity and differences between sequential and agile methods such as Scrum. Although this course focuses on the software industry, its content is also relevant and applicable for other industries. Upon completion of this course, you will be able to successfully manage and complete your projects with respect to time, costs and quality – appreciating the most important factor in projects: employees.

At the end of the course, participants can optionally take an exam to qualify as an "ASQF® Certified Professional for Project Management". Please note that further preparation after each course day is recommended to successfully pass the exam.

### Content

The content complies with the current curriculum published by the ASQF®:

- Overview: basics and terms of project management
- Forms of project organization: The company and us
- Process and procedure models for software development: Agile or not?
- Initialization of projects: Successful start, successful end
- Project planning: The road map for successful projects
- Project implementation and controlling: Will the plan be successful?
- Change management: There will be changes even before you recognize them!
- Project acceptance and completion: Every project comes to an end – but how?
- Quality assurance: Those who save time at the beginning, lose in the end
- Risk management: Project management from another perspective
- Human resource management: Success depends on the team
- Maturity models: Higher reliance due to higher maturity

### 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).
This course provides a practice oriented introduction to agile methods, supported by examples and exercises. Topics such as Kanban, Scrum, XP and Lean Management are covered, as well as the possibility of combining them. After the course, participants will have a clear idea about these methods and their advantages. Similarities and differences between the methods are highlighted. Participants of this course will be able to identify and adapt an appropriate method and the advantages of applying agility.

### Content

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<tr>
<th>Topic</th>
<th>Goals</th>
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<tr>
<td><strong>Introduction to agile methods</strong></td>
<td>Organizational culture and agility, Psychological background, Delegation</td>
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<td><strong>Basics of agile methods and practices</strong></td>
<td>Scrum, Kanban, Lean, XP</td>
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<td><strong>Difference between agile methods</strong></td>
<td>Combinations of agile methods, Scaling agile methods, Exercises</td>
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</table>

### Target audience
Project managers, project employees, quality managers, system analysts, designers/architects/developers/testers for software/hardware/systems, principals of software projects

### Prerequisites
Experience in software and product development

### Code
AM

### Duration
2 days
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.

**Content**

- **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
This course is about basic concepts of the agile product management framework Scrum. In addition, techniques and practices from other agile methods will be introduced and demonstrated how they fit within the Scrum framework.

You will get an overview of the roles of Scrum. Artifacts such as Product Backlog, Sprint Backlog and Burndown Charts, will be explained as well as typical activities.

Content

- Introduction to agile methods
- Scrum roles
  - Product Owner – responsible for the project
  - Scrum Master – the coach and enabler
  - Development Team – those who develop the product
- Artifacts
  - Product Backlog – list of prioritized user stories or requirements
  - Sprint Backlog – list of tasks for planning and tracking
  - Burndown Charts – tracking progress
  - Artifacts from other agile methods
- Activities
  - Sprint Planning
  - Release Planning
  - Sprint Review for acceptance of sprint results
  - Retrospective for improvement of working procedures
  - Using activities from other agile methods
- Requirements management
  - Inception Phase
  - User Stories for requirements definition
  - Using Epics and Features

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 v3.1 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.de/agile-transformation.html
Using Kanban, Scrum or other agile methods in large organizations is usually not limited to only one team. Methods need to be scaled. Extended approaches such as Scrum-of-Scrums are used to coordinate between agile teams in large projects. The Scaled Agile Framework (SAFe®) supports an entire organization with this approach.

SAFe® offers an approved method to transform large organizations and optimize the added value of companies. Different organizational levels (team, program, and portfolio) are structured with synchronized agile processes. Processes are regularly integrally optimized (inspect and adapt) to accommodate all the perspectives and needs of the organization.

This course transfers the needed knowledge to successfully implement and adjust the SAFe® Framework and establish the ideal Lean-Agile-culture.

**Content**

- Lean/Agile principles and mindset in SAFe®
- Synchronization of several or more agile teams
- Agile program planning
- Feature teams, components teams
- Continuous Integration
- Agile organizations
- Vision, user stories, requirements
- Release planning
- Organizational and cultural change
- Lean portfolio management

**Further Information**

- Course material in English
- One-year membership in the Scaled Agile Community
- Certification of participation
- Authorization to request 15 PDUs at the PMI for PMP and PMI-ACP certifications
- Authorization to request SEUs (category C) for the Scrum Alliance CSP-certification or renewals
- Registration for the SAFe® Agilist (SA) examination (both course days have to be attended)
- Final exam online (English)
- After passing the final exam you receive
  - The certification SAFe® 4 Agilist SA
  - One-year certified membership as SAFe® 4 Agilist
  - SAFe® Agilist Branding Kit
Participants get an insight on the role of a Scrum Master in the SAFe® environment. Compared to the classic Scrum Master training, the context of the SAFe® Scrum Master training goes beyond the team level, to the comprehensive organizational level. This means, for the Scrum Master, to contribute to the successful planning and implementation of Program Increments (PI). PIs are essential for the synchronization of all levels in a SAFe® organization.

Participants learn about the key elements of development with SAFe®, how to enable Scrum in the entire organization and how to implement iteration planning. They learn how to develop high-performing Agile teams with Servant Leadership. At the end of this course, participants know how to coach teams to achieve a maximum level of added value and highest customer benefit within the scope of the SAFe® Framework.

### Content

- Understanding and establishing Scrum in the SAFe® context
- Understanding the role of a Scrum Master
- Key elements of Scrum (e.g. backlog refinement, retrospective, etc.)
- Key elements of Agile development
- DevOps culture
- Qualities of an effective Scrum Master
- Iteration planning and implementation
- Contribution to iteration planning and implementation
- Program Increment (PI) planning
- Servant Leadership
- Team building with Servant Leadership and coaching
- Improvement of team meetings
- How to deal with conflicts

### Further Information

- Course material in English
- Membership in the Scaled Agile Community for one year
- Certification of participation by Method Park
- Authorization to request 15 PDUs at the PMI for PMP and PMI-ACP certifications
- Authorization to request SEUs (category C) for the Scrum Alliance CSP-certification or renewals
- Registration for the SAFe® Scrum Master (SSM) examination (both course days have to be attended)
- Final exam online (English)
In this course, develop and deepen your knowledge in the role of a Product Manager or Product Owner. Participants learn the skillset to generate added value in a Lean company. Learn more about activities, tools and mechanisms used for managing backlogs and programs by becoming a SAFe® Product Owner/Product Manager. During this two-day course, win deep knowledge in the Agile Release Train (ART), experience how it generates added value and what you can do to effectively fill this role.

Learn how to write Epics in a Lean-Agile company and break (cut) them down into features and stories, how to plan and implement iterations and program increments. Conclusively, learn how to effectively and sustainably improve the ART within Continuous Delivery and a DevOps culture.

**Content**

- SAFe® 4.0 PM/PO introduction
- Acquisition of a Lean-Agile mindset
- Deepening of the Product Manager and Product Owner roles
- Definition and management of values
- How to become an effective SAFe® Product Manager
- How to become an effective SAFe® Product Owner
- Including stakeholders
- How to build your communities with hands-on experience

**Further Information**

- Course material in English
- Certification of participation
- One year membership in theScaled Agile Community
- Authorization to request 15 PDUs at the PMI for PMP and PMI-ACP certifications
- Authorization to request SEUs (category C) for the Scrum Alliance CSP-certification or renewals
- Registration for the SAFe® 4 PM/PO examination (both course days have to be attended)
- Final exam online (English)
- After passed final exam you receive
  - The certification SAFe® 4 Product Owner/Product Manager (PM/PO)
  - Membership as PM/PO in the Scaled Agile Community for one year
  - PM/PO Branding Kit
  - Digital Award as PM/PO

**Target audience**

Product managers, product line managers, Product Owners, business owners and economic analysts, business analysts, Solution managers, portfolio managers, program managers, PMO team members and those responsible for processes, Enterprise, solution and systems architects

**Prerequisites**

none

Highly recommended:
- Leading SAFe® certification
- Experience in SAFe® and Lean/Agile environments

**Code**

ZPP

**Duration**

2 days
SAFe® 4.5 Advanced Scrum Master (SASM) with Certification

Target audience
Practicing Scrum Masters, Team leaders, project managers and other persons who would like to perform the role of an Agile team moderator in a SAFe® company context, Engineering and development managers who will be responsible for the Agile implementation and coaching of teams and teams-of-teams, Agile coaches, Agile program managers, Future Release Train Engineers

Prerequisites
Necessary: None
Highly recommended: Certification as Scrum Master or SAFe® Scrum Master (SM)

Code
ZSAS

Duration
2 days

This two-day course prepares current Scrum Masters for the leadership role of implementing Agile teams to enable program and organizational success in SAFe® environments.

Learn how to promote interactions between cross-functional teams and how to support continuous improvement with program execution.

The SAFe® Advanced Scrum Master broadens the Scrum paradigm as follows:

- Introduction to scalable engineering and DevOps practices
- Application of Kanban to improve the value stream
- Support on the interaction with architects, product management and other crucial interest groups in extended program and company contexts

This course offers a lot of hands-on content and realizable tools to build top-performing teams. Also communicates hands-on methods to manage or avoid Agile anti-patterns in companies.

Content

- SAFe® Framework and benefits as well as Lean-Agile principles
- Anti-patterns
- Program increment:
  - Planning
  - Implementation
  - Inspect and adapt workshops
- High-value engineering
- Agile architecture and DevOps methods
- Kanban to promote operating cycles in teams and programs
- Building high-performing teams
- Cooperation with systems teams, software distribution, UX, architects, Product Owners, product management and business owners
- Communities of practice

Further Information

- Course material in English
- Certification of Participation byScaled Agile on demand
- Authorization to request 15 PDUs at the PMI for PMP and PMI-ACP certifications
- Authorization to request SEUs (category C) for the Scrum Alliance CSP-certification or renewals
- Registration for the SAFe® 4 SASM examination (both course days have to be attended)
- Final exam online (English)
- After passed final exam you receive
  - The certification SAFe® Advanced Scrum Master (SASM)
  - Membership as SASM in the Scaled Agile Community for one year
  - SASM Branding Kit
  - Digital Award as SASM
SAFe® 4.5 for Teams with SAFe® Practitioner (SP) Certification

Participants of this course learn how to become a high-performing team member of an Agile Release Train (ART) and how to effectively cooperate with other teams. We will communicate intense knowledge on ARTs and how the added value works. Learn how to effectively create your role within the scope of Scrum, Kanban and XP.

Learn how to write user stories, to break down (cut) features and plan and implement iterations including the DevOps culture, Continuous Delivery and a continuous improvement process.

Content

> The Scaled Agile Framework (SAFe®)
> Apply SAFe® to scale Agile development
> Agile teams
> Agile Release Train (ART)
> Other teams in the ART and dependencies
> Planning and implementation of iterations
> Demonstration of value created (efficient product increment)
> Integration and product increments
> Cooperation with other teams

Further Information

> Course material in English
> Certification of Participation
> Authorization to request 15 PDUs at the PMI for PMP and PMI-ACP certifications
> Authorization to request SEUs (category C) for the Scrum Alliance CSP-certification or renewals
> One-year membership in the Scaled Agile Community
> Registration for the SAFe® 4 Practitioner (SP) examination (both course days have to be attended)
> Final exam online (English)
> After passed final exam you receive the certification SAFe® 4 Practitioner (SP)
"Nothing worthwhile is easy."
(Brian Tracy, *1944, American author)
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.

**Content**

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

- 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 model
  - 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)

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.

Content

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

- Basic foundations of using models in requirements engineering
- 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
- Behavior modeling using state charts
- Combination of function models and behavior models
- 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).
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.

**Content**

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).
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.

Content

- 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

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 IREB 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.

iSAQB® Certified Professional for Software Architecture – Foundation Level

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.

Content

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).
- The number of participants is limited to 12 persons.
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.

### Content

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”.
- The number of participants is limited to 12 persons.
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.

**Content**

- 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

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.

**Content**

- 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 compact

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.

Content

> 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, ...)

Target audience
Software architects, software developers

Prerequisites
Experience with software development

Code
APC

Duration
2 days

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
Properly managing processes –
Process management with Stages

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

Test now! www.methodpark.com/stages
"There’s a way to do it better – find it."
(Thomas Alva Edison, 1847-1931, American inventor)
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.

**Content**

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 life cycle
  - 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).
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.

**Content**

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).
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.

**Content**

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).
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.

Content

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
  - Condition testing
  - Modified condition/decision coverage testing
  - Multiple condition testing
  - Path testing
  - API testing
  - Selecting a structure-based technique
- 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)

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.

Content

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

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

Test Analyst and Technical Test Analyst

Aus- und Weiterbildung zum Certified Tester – Advanced Level nach ISTQB-Standard

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 Life Cycle - Static and Dynamic Testing Techniques - Test Management - Test Tools. Also mentioned are some updates to the syllabus that are due in 2017.

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.

**Content**

- 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)
GTB® Foundation Level Specialist – Certified Automotive Software Tester

You are already a certified ISTQB® Certified Tester – Foundation Level and would like to apply your knowledge in the context of automotive software development? Over many years, the ISTQB® Certified Tester scheme has become established as the certification standard for software testing, but so far, the link to its application in an automotive environment was missing. Now we close this gap with the course “Certified Automotive Software Tester” (CAST). In this course, you learn how to apply your knowledge in the automotive industry. Take advantage of this opportunity to qualify as tester for automotive software systems! Please note that further preparation at the end of each course day is recommended to succeed in passing the exam.

Content

The content corresponds to the German curriculum published by the GBT®:

- Norms and standards for testing E/E systems
  - Automotive SPICE® (ASPICE)
  - ISO 26262
  - AUTOSAR
  - Comparison of objectives ASPICE and ISO 26262 / comparison of test levels

- Testing in virtual environments
  - Test environment in general (motivation for test environments in the automotive industry, general parts of a test environment, difference between Closed Loop and Open Loop, essential interfaces, databases, and communication protocols of control units)
  - Testing in XIL test environments (Model in the Loop (MiL), Software in the Loop (SiL), Hardware in the Loop (HiL))

- Specific static and dynamic testing methods
  - Static methods (MISRA-C:2012-programming standards)
  - Dynamic testing methods (condition testing, multiple conditions testing, modified condition decision testing, back-to-back testing, fault injection testing, requirements-based testing, context-dependent selection of testing methods)

Further Information

- The training is based on German course material.
- The course price does not include examination fees.
- After passing the exam, the certificate is issued by the independent certifier International Software Quality Institute (iSQI).
- In order to participate the exam a certificate of ISTQB Certified Tester Foundation Level is necessary.
- We offer this course in cooperation with the ISARTAL Akademie GmbH.
"A ship in harbour is safe, but that is not what ships are built for."

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

SAFETY RELEVANT DEVELOPMENT
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
The more complex the technology the more experts for Functional Safety are needed. But the question is: who is an expert for Functional Safety? ISO 26262 does not answer this question. On the one hand it demands that only experts assess or manage Functional Safety but on the other it does not specify any of the prerequisites to be met by someone who may be considered an expert.

Our partner SGS-TÜV Saar as an accredited services provider now offers you the possibility to impart the technical knowledge for Functional Safety to personnel and to thereby qualify them. As an individual possessing this qualification, you justify or even increase your market value. As a business, you have the opportunity to have your staff qualified by an independent party and to secure this technical knowledge for the long term.

**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).”
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.

Content

Target audience
Software architects, software designers, software developers

Prerequisites
Experience in software development

Code
SEC

Duration
3 days

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
"Better to light a candle than to curse the darkness."
(Confucius, 551 B.C.-479 B.C., Chinese philosopher)
Hands-on Workshop on Unit Test

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.

Content

- 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

Further Information

- After this workshop, you have the opportunity to book several follow-up coaching days, in which the trainer will focus on specific challenges you face when applying the methods acquired in our course. You will have the chance to deepen your understanding of specific contents.
- You will need a laptop for the exercises in this course. We will define the necessary exercise environment with you and all participants of the course.
Hands-on Workshop about Clean Code

During development, software is often gradually losing quality and so implementation of new features or changes, becomes increasingly difficult. It becomes difficult to understand the flow of the code and minor changes may increase unsolicited side-effects. However, you can counteract the effects deriving from this phenomenon! This hands-on workshop about Clean Code provides necessary techniques and methods to write coherent, maintainable, extensible and resilient code, to prepare your software for future challenges.

This course is practice-oriented and half of it consists of practical exercises on a consistent topic. You will acquire all aspects of clean code with specific exercises. After this workshop you are able to apply the techniques and methods learned in your daily work life.

Content

- What is Bad Code?
- What is Clean Code?
- The Boy Scout Rule
- Naming
- Methods
- Classification
- Comments
- Formatting
- Objects and data structures
- Bug fixing
- Limits on other systems
- Unit Tests
- Refactoring
- SOLID principles
- Clean Code Developer Grade

Further Information

- After this workshop, you have the opportunity to book several follow-up coaching days, in which the trainer will focus on specific challenges you face when applying the methods acquired in our course. You will have the chance to deepen your understanding of specific contents.
- You will need a laptop for the exercises in this course. We will define the necessary exercise environment with you and all participants of the course.

Target audience
Developers

Prerequisites
Experience in software development

Code
CCW

Duration
2 days
Methods such as Continuous Integration (CI), test automation and Continuous Deployment, support development of high quality software and are an essential part of modern development methods. A nightly build, however, is sometimes not sufficient in other words: build/deployment pipelines are quickly getting very complex and comprehensive. Often, defining the right scope of a build is also very difficult; long-dated builds, for instance, result in redundant waiting time for developers. This hands-on workshop about Continuous Integration & Deployment, communicates relevant methods and practices for successful application of Continuous Integration & Deployment in your projects.

This workshop is practice-oriented. Over half of it consists of applied exercises on a continuous topic. You will acquire all aspects of Continuous Integration and Continuous Deployment with detailed exercises. To manage the application of communicated content in your company as smooth as possible, we offer exercises for CI solutions such as Jenkins and Team City (further solution on demand). We also offer you the possibility to work with tools adjusted to your organization’s needs. Your team will be able to apply the methods communicated in this workshop in their daily work life.

**Content**

- What is Continuous Integration?
- What is Continuous Delivery?
- What is Continuous Deployment?
- How do Continuous Integration and Continuous Deployment interact?
- Step by step implementation of build pipelines
- Dealing with failed builds
- Variant management
- Tool support and selection
- Integration of automated tests
- Integration of code analyses
- Integration of Code Reviews

**Further Information**

After this workshop, you have the opportunity to book several follow-up coaching days, in which the trainer will focus on specific challenges you face when applying the methods acquired in our course. You will have the chance to deepen your understanding of specific contents.
You would like to use the Entity Framework in your software development, or are already using it? You are searching for training tailored to your individual needs? Our workshop on the Entity Framework will fit your needs: this hands-on workshop communicates necessary techniques and methods to use the Entity Framework in your project.

This workshop is practice-oriented and half of it consists of practical exercises on a consistent topic. You will acquire all aspects of using the Entity Framework, with specific exercises. After this workshop, you will be able to apply these techniques and methods directly to your daily work.

**Content**

- Basics of object-related mapping
- Basics of the Entity Framework
- Object relations, navigation and charging strategies
- Link-to-entities
- Performance tips & tricks
- Migrations
- Support on Stored Procedures
- Software architectures with the Entity Framework

**Further Information**

- After this workshop, you have the opportunity to book several follow-up coaching days, in which the trainer will focus on specific challenges you face when applying the methods acquired in our course. You will have the chance to deepen your understanding of specific contents.
- You will need a laptop for the exercises in this course. We will define the necessary exercise environment with you and all participants of the course.
Configuration Management and Code Review are an essential basis for quality in large software projects, in a regulated environment. Tailored to your needs, we support you on introducing Git, train your employees and support you on the introduction of Code Review solutions such as Gerrit or GitHub Enterprise. Together with you, we develop a workflow which is tailored to your project and covers all development phases, from check-in over Code Review linked to a Continuous Integration System, to release and Life Cycle Management.

This workshop will focus on communication of knowledge with practical exercises so you can directly exercise and apply contents on relevant examples, from your daily work life.

We support you on selecting the right tool and implementation of established tools such as Gerrit or GitHub Enterprise in your company.

After this workshop, we recommend you to book several follow-up coaching days, in which the trainer will focus on specific challenges you face when applying the methods acquired in our course. You will have the chance to deepen your understanding of specific contents.

**Content**

- **Git**
  - Basic version management
  - Understanding of software history
  - Creation of development lines (branch) and versions (tags)
  - Integration strategies (Merge vs. Rebase) for merging divergent development lines
  - Synchronization with other repositories (push, pull)
  - Best Practices for more efficient development processes with Git

- **Code Review with Gerrit**
  - Goals and Basics on Code Review
  - Deliver code for review
  - Incorporation of code review comments
  - Dissolution of conflicts
  - Best Practices

- **Code Review with GitHub Enterprise**
  - Structuring teams and organizations
  - Collaboration workflows with GitHub (fork & branch, pull requests)
  - Resynchronization with progressive development
  - Code Review with tool support

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**Target audience**
Software developers and integrators

**Prerequisites**
Experience in software development

**Code**
GW

**Duration**
2 days
Hands-on Workshop on Qt/QML

With Qt and QML, platform-independent and performant user interfaces for Windows, iOS and Android are configurable on a reasonable efforts basis. This workshop consists of concepts and methods for interface programming with Qt and QML including an overview of QML basics, UI interaction and Qt quick controls. The interaction of QML and C++ code and further topics from the Qt library are communicated.

Half of the workshop consists of practical exercises in which contents are deepened and communicated. You have the chance to learn and practice learned contents with specific examples.

After this workshop, you have the opportunity to book several follow-up coaching days, in which the trainer will focus on specific challenges you face, when applying the methods acquired in our course. You will have the chance to deepen your understanding of specific contents.

Content

- QML basics
- Qt widgets basics
- QML UI interactions
- Animations and reactivity
- Qt quick controls
- QML components
- Integration of C++ and QML
- Own C++/QML components
- Model/view concept and data display
- Qt plugins
- Internationalization

Target audience
Software developers

Prerequisites
Experience in C++ is helpful.

Code
QTW

Duration
2 days
A wide variety of hackatons and coding events already exists in various formats. What has been missing was a camp where participants can discuss “the regular madness” of a software engineer’s everyday work-life or exchange know-how far beyond technical subjects. That’s how the idea came about to start a BarCamp for Software Engineering ("software craftsmanship").

In 2016, Method Park hosted the SWEC for the first time and excited over 100 participants. So this event will take place in autumn of the next years, too. Method Park invites all interested engineers to join the next Camp from November 16 to 18, 2018 in Erlangen.

The Camp’s principle is quite simple: Method Park provides for the location, infrastructure and catering – participants provide for topics they deal with in their daily work as a software engineer. The Software Engineering Camp is organized as a classic unconference. The SWEC lives from its participants so every participant can be teaching and learning at the same time.

As a BarCamp, the SWEC is an ad-hoc-unconference. It was founded in an urge for an open environment to exchange know-how and experience and learn from each other. The SWEC is a profound event with discussions, presentations and interaction among participants. It’s all about Software Engineering – topics stand and fall with the Camp’s participants.
GENERAL TERMS AND CONDITIONS OF METHOD PARK HOLDING AG
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General Terms and Conditions of Method Park Holding AG for public seminars

§ 1 General
All services in connection with public seminar events are subject to these General Terms and Condition ("AGB") of Method Park Holding AG, 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 Holding AG 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 Holding AG 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 Holding AG 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 we have fulfilled our information obligations pursuant to Article 246 Section2 in connection with Section1 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 Holding AG
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 insolvent 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 Holding AG shall be decisive.

The cancellation must be declared in writing and be addressed to:
Method Park Holding AG
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 Holding AG 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 Holding AG has the right to change the location of events and/or specify a different date as a substitute. Method Park Holding AG 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 Holding AG will notify the participant of the cancellation and of the reason with out 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 Holding AG.

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 Holding AG.

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 – nor even in excerpts – reproduced, particularly not using electronic systems, or used commercially without the prior written consent of Method Park Holding AG and of the relevant speakers.

**§ 10 Copyrights and trademarks**

Software is used in the seminars of Method Park Holding AG 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 Holding AG.

Method Park Holding AG 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 Holding AG serves the right to file claims for damages.

Method Park Holding AG shall only be liable for damage, irrespective of the legal groundwork of its liability, only insofar as Method Park Holding AG, 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 Holding AG, 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 Holding AG, 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 Holding AG 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 Holding AG 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 January 2018

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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.