

Welcome to the **Test Architect Expert Training**

Kick-off session on May 17th, 2018

[General Program Information](#)

To whom do you speak?



Peter

peter.zimmerer@siemens.com



Bruno

bruno.muellermann@siemens-healthineers.com



Marco

marco.achtziger@siemens-healthineers.com

Who's more to mention?



Further contacts...

Ina Müllemann

Profile



Current position at Siemens

- Project Leader “Nomination and Certification for Architects”
- Product Manager for other learning programs within research&developement

Contact: Ina.Muellemann@siemens.com

Responsibilities:

- nomination and selection process for SSWA, SWA and SyA
- certification process for all architect trainings

Further contacts....

Ina Mülleman

Profile

Current position at Siemens

• Siemens AG, Technology and Services Division

Inas special hint:

The certification for TeA usually starts six months after the training phase. You will receive a separate invitation with all required information including dates (location: Erlangen).

* certification process for all certified trainees



Further contacts...

Laura Ambros, Melanie Prenting

Contact

- swengineeringtrainings.lc@siemens.com (HR LE GLC SW Engineering Trainings)
- please add [TeA] in the subject of your email

Responsibilities

- Hotel reservations, Program bookings
- Questions regarding logistics, venue, visa, travel etc.

FAQ

- How can I change my hotel reservation?

Just send us your requirements and we check with the hotel and let you know if the changes are possible. Please note that additional nights have to be paid for separately.

- How do I receive a visa invitation letter?

Send us your details (full name, passport nr., date of issue, date of expiry, date of birth, assumed entry date, name of required consulate) and we will take care of the letters.

- When do I receive an official invitation for the workshops?

You will receive an official invitation 6 weeks before each workshop.

Further contacts...

Laura Ambros, Melanie Prenting

Contact

- [Laura Ambros](#)
- [please add \[her\] in the agenda](#)

Responsibilities

- Hotel reservations, Please contact them
- Questions regarding hotel

FAQ

- How can I change my hotel reservation?

Just send us your requirements and we check with the hotel and let you know if the changes are possible. Please note that additional nights have to be paid for separately.

- How do I receive a visa invitation letter?

Send us your details (full name, passport no., date of issue, date of expiry, date of birth, accommodation details, name of required controller) and we will take care of the letters.

- When do I receive an official invitation for the workshop?

You will receive an official invitation 8 weeks before each workshop.

Special hint:

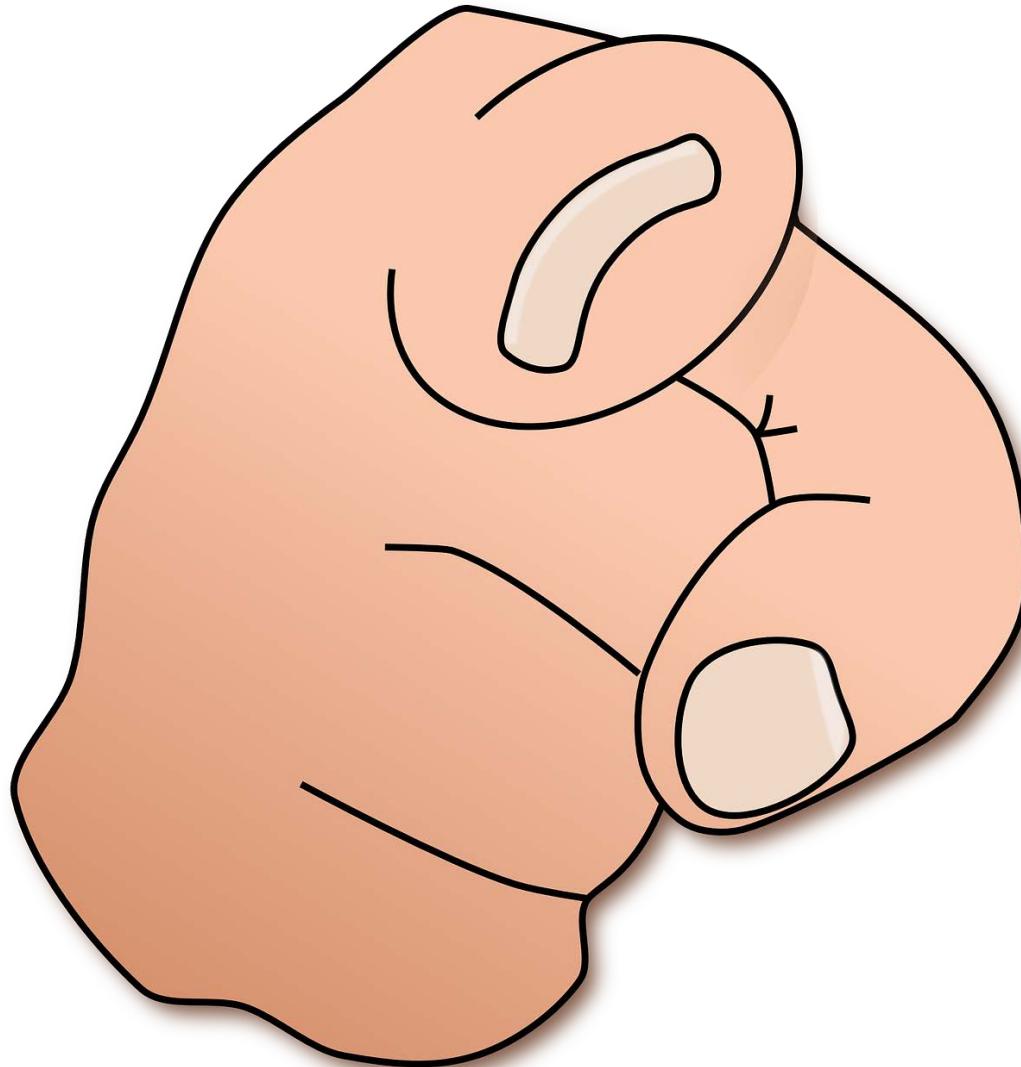
Onsite workshops start every Monday:

- 12:30 with lunch
- 14:00 official start

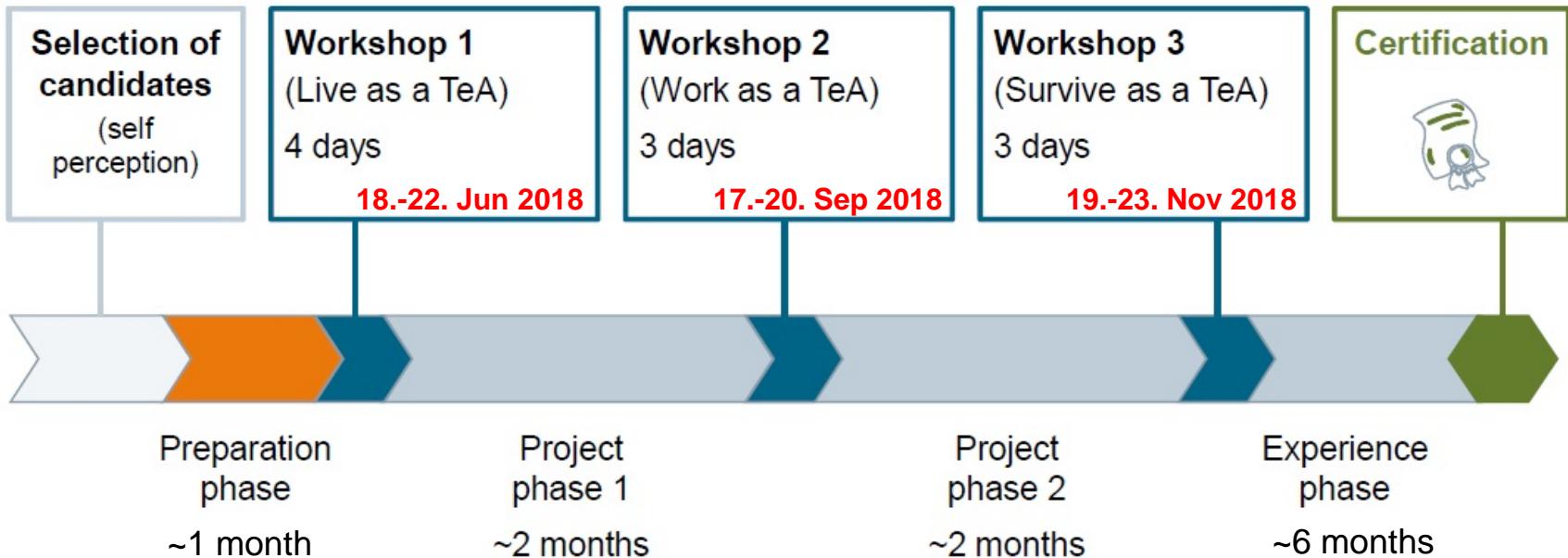
Please check early, whether you need an extra night from Sunday to Monday. Please contact them in that case.



Now: Let's get back to you...



Test Architect Expert Training [TeA]



Workshop 1 – Live as a Test Architect

- Introduce all course topics



- why is the topic important at all and why for test architects
- what is the test architect's responsibility in each topic
- clarifying and managing the problem and solution space

Workshop 2 – Work as a Test Architect

- important methods for the test architect in each topic ...

Workshop 3 – Survive as a Test Architect

- dealing with uncertainty, change, and conflicts
- sustaining test architecture

What should you do in the preparation phase?

1. Role of Test Architect
Time estimate: 8 hours
Submission date: Input for the first workshop
ECC: not relevant
2. Stakeholder Presentation "Test Strategy"
Time estimate: 6 hours
Submission date: one week before the first workshop
ECC: use ECCsafe folder
3. Prepare a 3 minutes presentation of yourself and your project
Time estimate: 1 hour
Submission date: Bring to the first workshop
*ECC: not relevant; no written delivery in TeA Workplace;
trainer: store photo protocol without system sketch*
4. Your Test Architecture
Time estimate: 2 hours
Submission date: Input for the first workshop
ECC: use ECCsafe folder
5. Prepare yourself for an interactive workshop on Requirements Engineering by watching the [RE videos provided in the SSA Wiki](#) and stored in a subfolder next to this document.
Time estimate: 1.5 hours
Submission date: Precondition for requirements engineering part in first workshop
ECC: not relevant; no written delivery
6. Get familiar with the "TeA home page":
<https://wse02.siemens.com/content/P0002864/TeA/SitePages/Home.aspx>
and the SSA Wiki:
<https://wiki.ct.siemens.de/display/MemberSSA/Software+and+System+Architecture> – what is your favorite page in the wiki?
Time estimate: individual
Submission date: Before the first workshop
ECC: do not deliver technical details of your system via these media
7. Review the material listed in the "[TeA Reading List](#)" and become familiar with the [SSA Wiki Glossary](#) (both are stored at the SSA Wiki)
Time estimate: individual
Submission date: Precondition for discussion in the first workshop
ECC: not relevant; no written delivery
8. Marketplace: Areas of expertise
To foster the mutual exchange of experience everyone will have the chance to contribute to a marketplace. There you will show areas of your expertise, topics where other participants could ask for your advice or mentoring. And you can show areas where you are looking for one or more experts to help you and discuss with. So please think about possible offers and demands.
Time estimate: individual
Submission date: Input for the first workshop
*ECC: not relevant, no written delivery;
during task elaboration clarify ECC on demand*

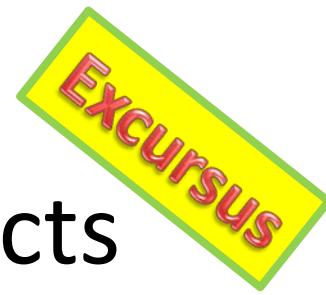
Summary: Reflect about ...

- your expertise & challenges
- your role and
- your project

... and prepare yourself by reading/watching and creating some material.

But before we get into details, some words on your tools for collaboration...

Your 1st tool for collaboration: TeA Sharepoint Site for Test Architects



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Siemens Intranet BROWSE PAGE PUBLISH

TeA

> Home
> About Us
> Application Procedure
> SSA Wiki
> SSWA
> SWA
> SyA
> TeA
> LDE-E

Test Architect Expert Training (TeA)

Welcome to the TeA home page.
Current course participants will find a course specific working place with

- preparation information for the next Workshop
- Workshop documentation
- personal folders for homework presentation.

Join also (actively) the [Test Architects](#) group in Siemens Social Network and actively contribute to the new [System and Software Architect's Wiki](#). In addition we maintain a [catalog of recommendations](#) for system and software development.

For supporting your alumni network we maintain [lists of certified architects](#) which are accessible by all current and former course participants.

Explorer (TeA documents)

- 📁 / Documents (3/2)
 - 📁 TeA Generic Workshop Information (8/0)
 - 📁 00 General Information (0/1)
 - 📁 01 Preparation Phase (0/7)
 - 📁 02 Workshop 1 (1/14)
 - 📁 03 Project Phase 1 (0/1)
 - 📁 04 Workshop 2 (1/7)
 - 📁 05 Project Phase 2 (0/1)
 - 📁 06 Workshop 3 (1/8)
 - 📁 07 Certification (0/1)
 - 📁 TeA Participant Folders (5/0)
 - 📁 archived (2/0)
 - 📁 Run 003 (18/1)
 - 📁 Run 004 (22/0)
 - 📁 Run 005 (15/0)
 - 📁 Template Run xxx (6/0)

Homework descriptions

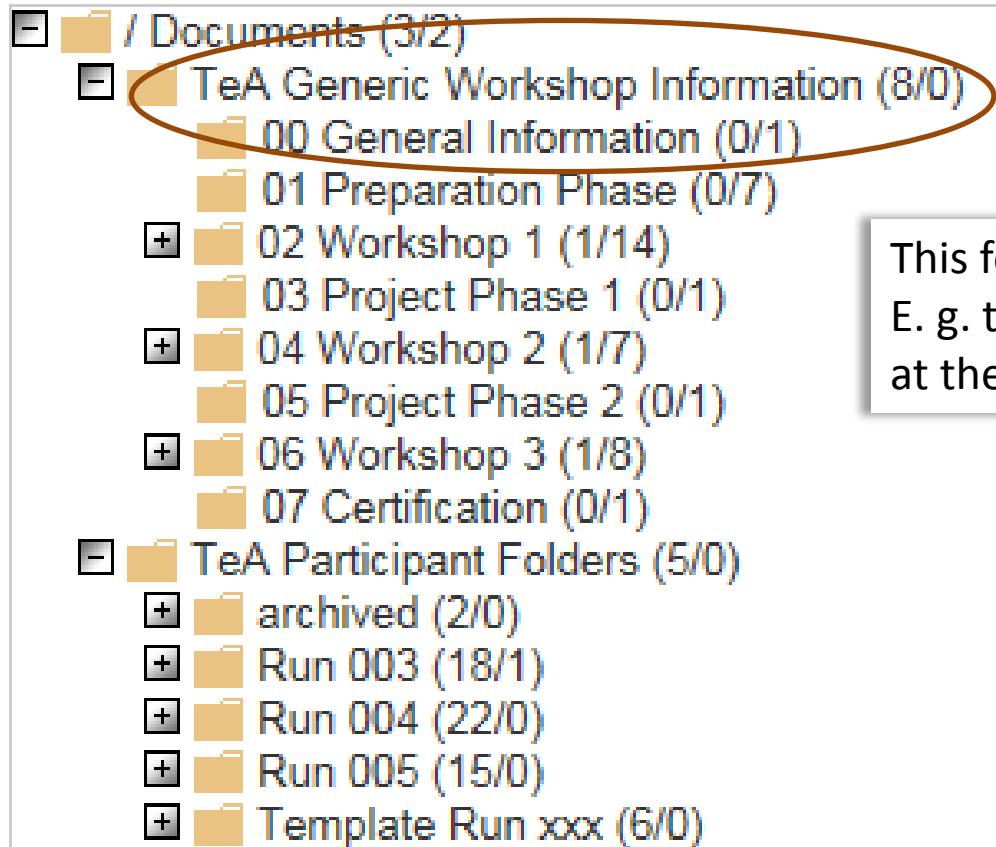
are also available at
this SharePoint site

At this site, please
also store your
homework results

Excursus

Structure – generic info

Explorer (TeA documents)



This folder contains information for all runs.
E. g. the homework instructions could be found
at the folder 01 Preparation Phase

Structure – run specific data

...where to store your results



Explorer (TeA documents)

- / Documents (3/2)
 - + TeA Generic Workshop Information (8/0)
 - TeA Participant Folders (5/0)
 - + archived (2/0)
 - + Run 003 (18/1)
 - + Run 004 (22/0)
 - Run 005 (15/0) ←
 - _ Kickoff (0/0)
 - _ Minutes WS1 (0/0)
 - _ Minutes WS2 (0/0)
 - _ Minutes WS3 (0/0)
 - _ Tasks (0/1)
 - Ahmet Caliskan (4/1)
 - Andoni Sainz Lopez (4/1)
 - Anja Knackstedt (4/1)
 - Bisser Peytchev (4/1)
 - Gabriel Saenz Sanchez (4/1)
 - Ingeborg Baer (4/1)
 - Kristina Smiljkovic (4/1)
 - M Mahesh (4/1)
 - Murat Ozcan (4/1)
 - Oliver Duerr (4/1)
 - + Template Run xxx (6/0)

This folder contains information separated for each run.

You are participants in Run 005

Excursus

Your personal folder

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Siemens Intranet BROWSE FILES LIBRARY

Run 005 ▶ Ahmet Caliskan ⓘ

> Home
► About Us
► Application Procedure
► SSA Wiki
► SSWA
► SWA
► SyA
► TeA
► LDE-E

(+) new document or drag files here

All Documents ...

	Name	Modified	Modified By
📁	1 Preparation Phase	...	4 hours ago Baier, Benjamin (CD C PLM PE DPM)
📁	2 Practice Phase One	...	4 hours ago Baier, Benjamin (CD C PLM PE DPM)
📁	3 Practice Phase Two	...	4 hours ago Baier, Benjamin (CD C PLM PE DPM)
📁	ECCsafe	...	4 hours ago Baier, Benjamin (CD C PLM PE DPM)
📄	Welcome ECCsafe *	...	4 hours ago Baier, Benjamin (CD C PLM PE DPM)

Tips for using your personal folder:

- Carefully read and follow the instructions in „Welcome ECCsafe“
- Avoid long file names and long path names when adding your homework results
- Avoid special characters in file names (esp. „&“)
- Avoid creation of subfolders – use it only where absolutely necessary

Your 2nd tool for collaboration: The wiki for Architects



SIEMENS
Ingenuity for life

CT Collaboration Platform
Software & System Architecture

Peter Zimmerer, Owner Log Out

Home Software & System Architecture Contact Help Browse Administration

Search in Software & System Architecture + Add

Software and System and Test Architecture Attachments (2) Comments (0)

Welcome to the Software & System & Test Architecture Wiki, where we share our wisdom.

This is the place to share your wisdom in a more persistent and structured form than SSN. For discussions use the respective SSN groups (see bottom of this page).

Please note: Unlike SSN this Wiki (currently) has a closed user group, the current and former participants of the architect learning programs. Here you find links to course slides and add on material. Navigate to the SWAP to provide your project phase deliveries.

Session slides and related content

- session slides sorted by Content
- session slides sorted by Program
- Glossary
- Abbreviations

Architects resources

- Competence related content
- Technology related content
- Design Essays
- Collection of How-To articles
- Tools and Templates
- Reading recommendations
- Job Profiles for architects
- External Trainings
- ... more resources

Key Development Expert Resources

- Clean Code

Networking

- Networking channels
- Who is Who

Blog Posts

Link to all Blog Posts

Blog Posts

Call for Papers for the 2018 Technical Debt Conference created by Stephan Wiesebach Software & System Architecture Oct 12, 2017

SSA Wiki community will be extended with KDEVs created by Ruediger Kreuter Aug 21, 2017 Software & System Architecture

New Tools : Your feedback is appreciated created by Kaan Bardak Aug 03, 2017 Software & System Architecture

Be aware: we change the structure of the Participant folders in SWAP created by Kaan Bardak Software & System Architecture Aug 03, 2017

SWAP is migrated created by Kaan Bardak Software & System Architecture Aug 03, 2017

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Added a page to discuss the demand for External Trainings. created by Kaan Bardak Software & System Architecture Aug 03, 2017

See SSA Wiki How-To for adding a new blog entry (use "+Add" -> create "News")

Here you may publish open jobs in your organization

Type	Were	When	Job description
<(S)SWA I SvA I	<site(s)>		<job description> <link to official job offer>

Sidebar

Save for later
Watching
Share in SSN
Share page (send by e-mail)
Like 10 people like this

For | For | For

Space Tags

abbreviations agile architecting architecture business-unders... cloud design_essay design_tactics explanation fault-tolerance generation glossary habitability internationaliz... jobprofile kb-how-to-articles methods modifiability modularization modularization... networking nfr oss patent producibility quality quality_attribut... readings role safety security simulation ssn sswa swa swi sxa_tea dev sysa system tea templates term terminology test testability testing usability virtualization wiki

> More Tags

Recently Updated Pages

Ruediger Kreuter Business Understanding updated about 4 hours ago

Gerolf Reinhardt Who is Who updated about 5 hours ago

Patrick Spaeth Who is Who updated about 5 hours ago

Wiki for Architects: Key idea



For Siemens Architects

Who like to share their ideas on a corporate level

The [Wiki for Architects](#) is a Confluence Wiki

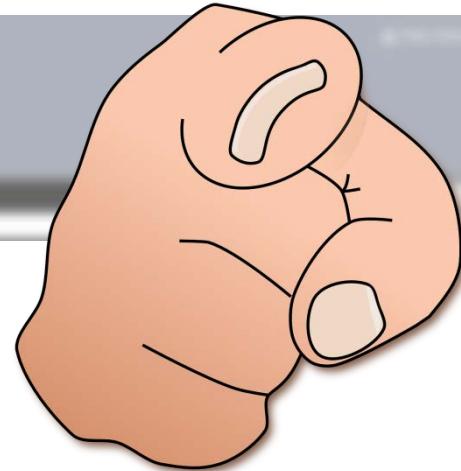
That is regularly maintained and extended

foremost by current participants of architect trainings within Siemens.

Unlike [wiki.siemens.com](#)

Our wiki has a closed user group limited to current and former participants
of the architect training programs within Siemens.

Excursus



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Who like to share their ideas on a corporate level

The [Wiki for Architects](#) is a Confluence Wiki

That is regularly maintained and extended

foremost by **current participants of architect trainings within Siemens**.

Unlike [wiki.siemens.com](#)

Our wiki has a closed user group

of the architect training progr...

That's again you ;)
So please care about your wiki...

O.K. Let's get back to the detailed homework descriptions...



Let's start with the reflection about your role...

pre-
paration
phase?

- a) Prepare yourself for an interactive conference on Requirements Engineering by writing the course material (20 slides) and stored in a subfolder next to the document.

Time estimate: 1.5 hours

Submission date: in a Presentation for requirements engineering workshop
- b) Review the material found in the "Materials" and become familiar with the document (both are stored at the LMS site: <http://lms.kit.edu/hsse/hsse2015/hsse2015.html>)

Time estimate: individual

Submission date: in a Presentation for discussion in the first workshop
- c) Marketplace: Areas of expertise

To foster the mutual exchange of experience everyone will have the chance to contribute to a marketplace. There you will place areas of your expertise, topics where other participants might ask for your advice or mentoring. And you can also areas where you are looking for one or more experts to help you and discuss with. So please think about possible offers and demands.

Time estimate: individual

Submission date: input for the first workshop

1) Role of the Test Architect

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Role Profile		Valid from:
Basic data		
Position Name		Test Architect (TeA)
Job Family	Research & Development	
Sub Job Family	Integration, Test & Approval	

The Test Architect Expert Training aims to qualify you using a defined role description with a clear statement about the objectives of the function, the needed competencies and last but not least a specific set of responsibilities.

Before the learning program your current job may only contain a subset or even a different set of responsibilities. For proper **change management** beginning with yourself it is crucial to see and communicate possible differences.

So please investigate the **job profile** stored in the same directory for these differences. Get an idea about possible **blind spots** regarding the competencies needed for fulfilling the needed tasks (fill out file "Role – 5 Differences worksheet.xlsx" for that). Advertise for the new role in your organization by **discussing the current and the target job profile** with the head of your department, test manager, line manager, project manager, other test architects, team-mates, or other knowledgeable people in your organization. **Identify the 5 most important differences** between your current role and the target role of a Test Architect (complete file "Role - 5 Differences.docx" and bring a **printout** to workshop 1).

leadership on testing topics to the whole architect is the foremost technical authority for adequate test approach and test architecture as well as metrics and

business with the software and its product managers, product lifecycle

technical experience and the ability to identify, manage, even in the absence of complete

neers in his/her team over the entire lifetime of implementation, maintenance, quality assurance, even in the face of challenging, changing technologies.

the organization's testing process and growth

, he/she involves the project

Tips:

- you may also consider the [Self-Perception-List](#) which should be checked as a training pre-requisite
- the files „Role – 5 Differences worksheet.xlsx“ and „Role – 5 Differences.docx“ are located in your personal folder, subfolder „1 Preparation Phase“

2) Presentation for a new test manager

(aka the “stakeholder presentation”)



Please create the following presentation for the first workshop:

Stakeholder-specific presentation. Different stakeholders have different interests in the test strategy of a project. Failing to address these interests appropriately in discussions or presentations may lower the acceptance of your test strategy and the trust in you as a person.

For the first workshop, please prepare a ten-minute presentation of your **Test Strategy** that addresses the perspective of the stakeholder **Test Manager**. Think about what she/he needs to know from you about the project and what she/he is able or willing to understand. Can you expect technical decisions from him?

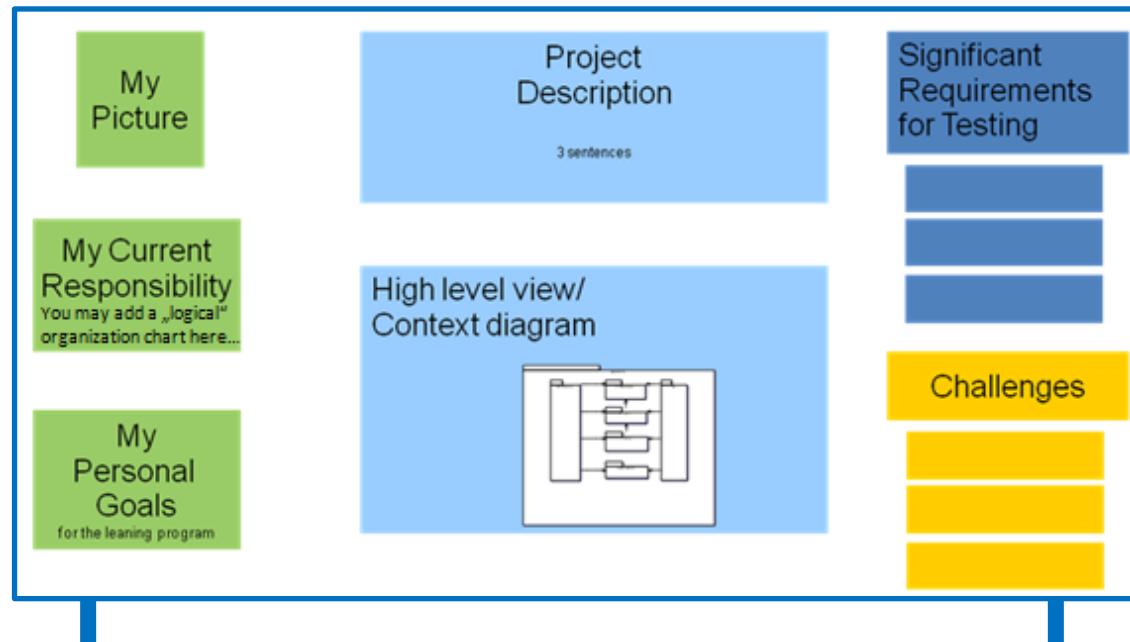
As your peers won't know details of your project it might be helpful to imagine the situation that your current test manager is suddenly no longer available and you do the presentation for the brand new test manager who is from a different domain.

The checklist stored in the same folder will help you to create this presentation.

3) Presentation: You & your project

(The project overviews will be presented using a pin board with the dimensions 120 x 85 cm in order to stay visible throughout the course – stakeholders are your peers)

For the first workshop, please prepare a **three-minute** presentation on yourself and your project including your domain. You can use the following template:



Don't prepare any slides besides the one which serves as a copy of the pinboard you will prepare.

It might be useful to prepare some sort of diagram (e.g., context diagram, sketch of the test architecture) upfront on flipchart paper so that you don't have to draw it during your presentation. Printouts are usually not too useful as they are small and hard to read from a distance.

Keep in mind that a part of your terminology and many acronyms will be completely new to other participants, so either avoid them or explain them.



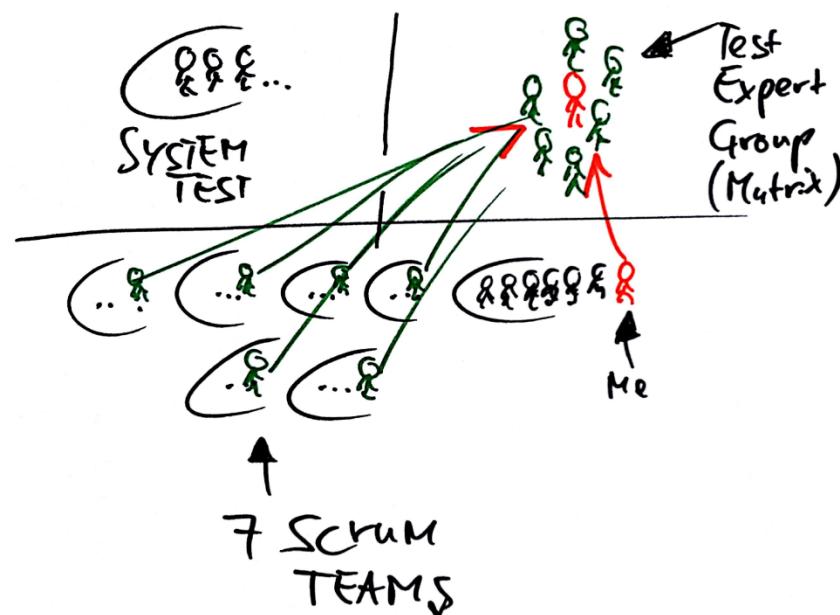
[Examples from previous TeA Run](#)

Some hints for the Logical Organization Chart

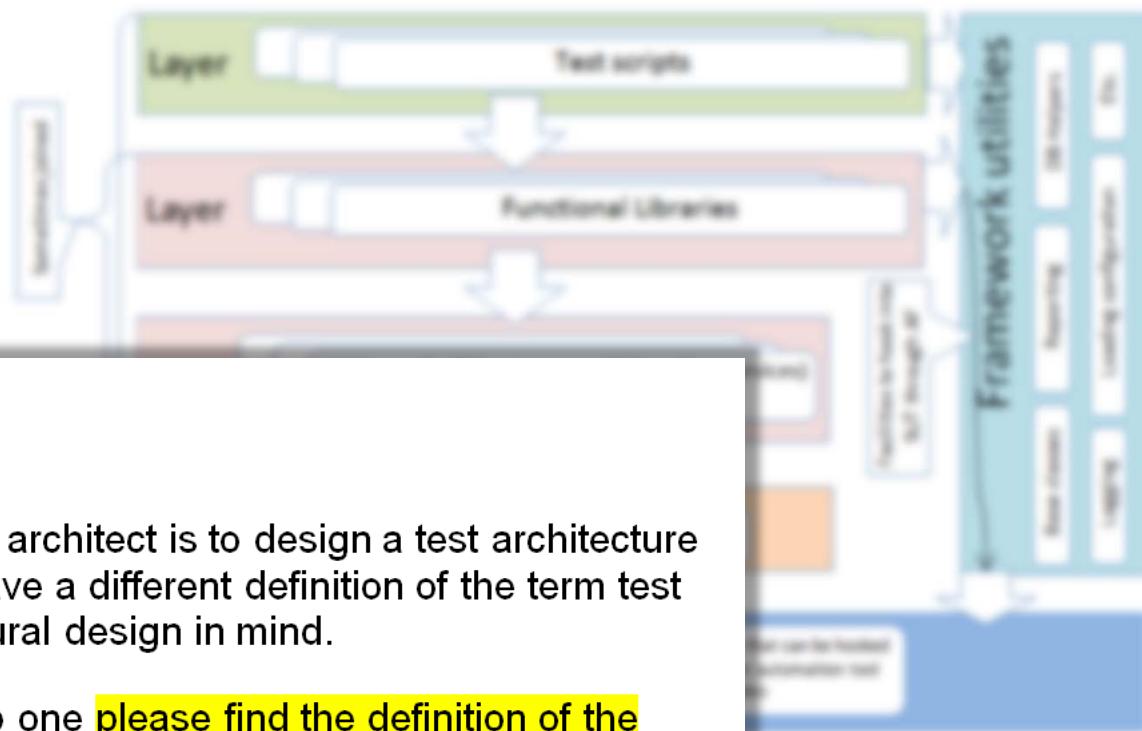
The typical environment of contacts is defined in the job profile:

Contacts (internal /external)	Test Engineer, Test Manager, Quality Manager, Product Manager, Customer, Project Manager, Architect, Developer and Expert, Integrator, Production and Service Expert, Risk Manager, and many others
----------------------------------	---

Please draw or describe a „logical“ organization chart omitting specific abbreviations...



4) Your test architecture



Your Test Architecture

One of the responsibilities of the test architect is to design a test architecture for your system. Most participants have a different definition of the term test architecture and a different architectural design in mind.

To prepare for a session in workshop one please find the definition of the term “test architecture” in your organization or project and outline the main characteristics. Prepare yourself to share the definition and main characteristics to the other participants using a flip chart, e.g. as a bullet list.

Also, please obtain a diagram of the test architecture currently in use in your organization / project. Prepare yourself to explain the major components, their responsibilities, and how they interact using a flip chart. You may want to create a sketch and develop this on a blank chart, or you may want to bring a ready made sheet with you.

Hint: decide on the “right” granularity of your diagram, not too few details, not too many details.

Hint: one of the components will be SUT (system under test).

The SENATOR

5) REQUIREMENTS
ENGINEERING
FOUNDATION WORKSHOP

Preparation for an interactive workshop
on Requirements Engineering

6) TeA Sharepoint Site, Wiki

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Integrity for life

Business Understanding

CT Collaboration Platform

Software & System Architecture

Software and System Test Architecture Wiki

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Type	Were	When	Job description
«(S)SWA	<site(s)>		<job description> click to referral web address
R&A I			

Space Tags

abbreviations, architecture, business-understanding, cloud, design, design_tactics, explanation, glossary, history, internationale, kb-how-to-artic, methods, methodology, networking, nfr, performance, quality, quality_attribut, readings, security, terminology, system, system_development, system_design, system_improvement, system_testing, system_usability, systemization, who-is-who

More Tags

Recently Updated Pages

Rüdiger Kreuter (Business Understanding) updated about 1 hour ago

Gerolf Reinhardt (Who is Who) updated about 1 hour ago

Patrick Specht (Who is Who) updated about 1 hour ago

Siemens Intranet BROWSE PAGE PUBLISH

TeA

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TeA Generic Workshop Information (8/0)
TeA Participant Folders (5/0)

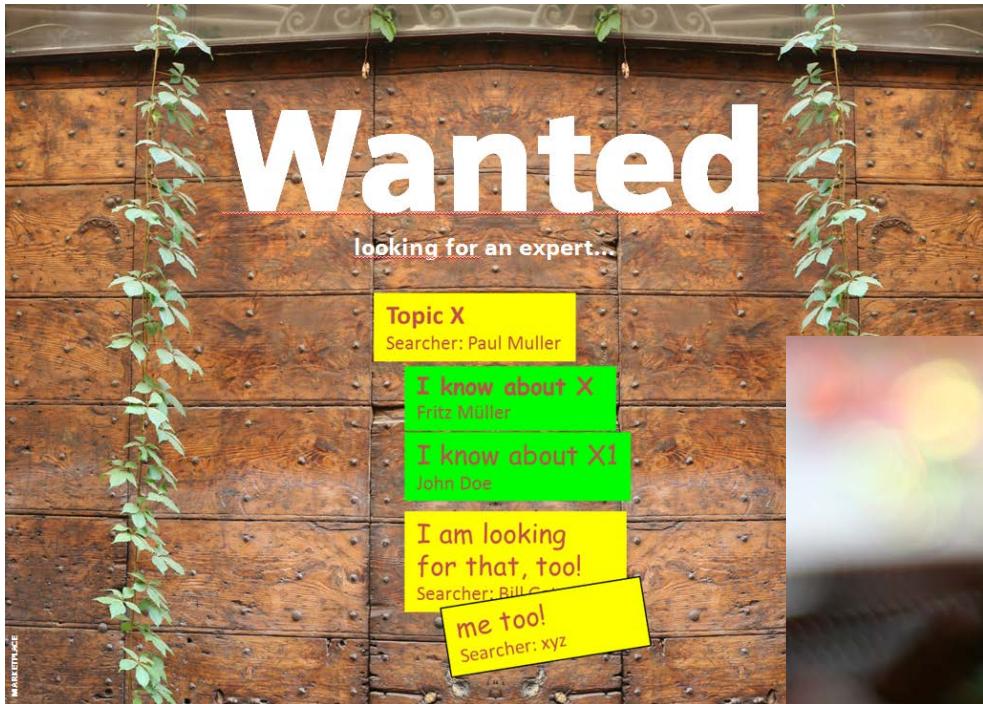
Course Schedule	WS1 starts	WS2 starts	WS3 starts
Run04	Jan 15, 2018 Bad Aibling	Mar 5, 2018 Seeon	Apr 23, 2018 Bad Aibling
Run05	Jun 18, 2018 Bad Aibling	Sep 17, 2018 Seeon	Nov 19, 2018 Bad Gögging
Run06	Jan 14, 2019	Mar 11, 2019	May 20, 2019

Get familiar with the
[TeA Sharepoint Site](#) and our [Wiki](#)

7) Recommended Reading

Please review the material listed in the "[Reading List](#)" (based on the blind spots you found in the role of the architect homework) and become familiar with the [Glossary](#).
(both are stored at the [wiki](#))

8) Marketplace



What do you need for WS1, Day 1?

- For session after lunch: Printouts / Preparation for Homework #1
- After Dinner: Printouts / Preparation for PinBoards Homework #3

Do you have questions?



FAQ

Q: There seem to be some time needed beyond being present at the onsite courses.

A: That's absolutely right. In order to have a good chance to take the highest benefit from the course (as a person, a project and an organization) it's crucial to reflect about the information provided.

Even more it's important to apply this information to your current situation.

This is by the way a necessary precondition to pass the certification in the intended way.

So please be prepared to spend time besides the official onsite courses to get immediate benefit (and possibly get a buy-in from your manager)

Further Q&A?





See you at the Hotel “St. Georg” in Bad Aibling!