

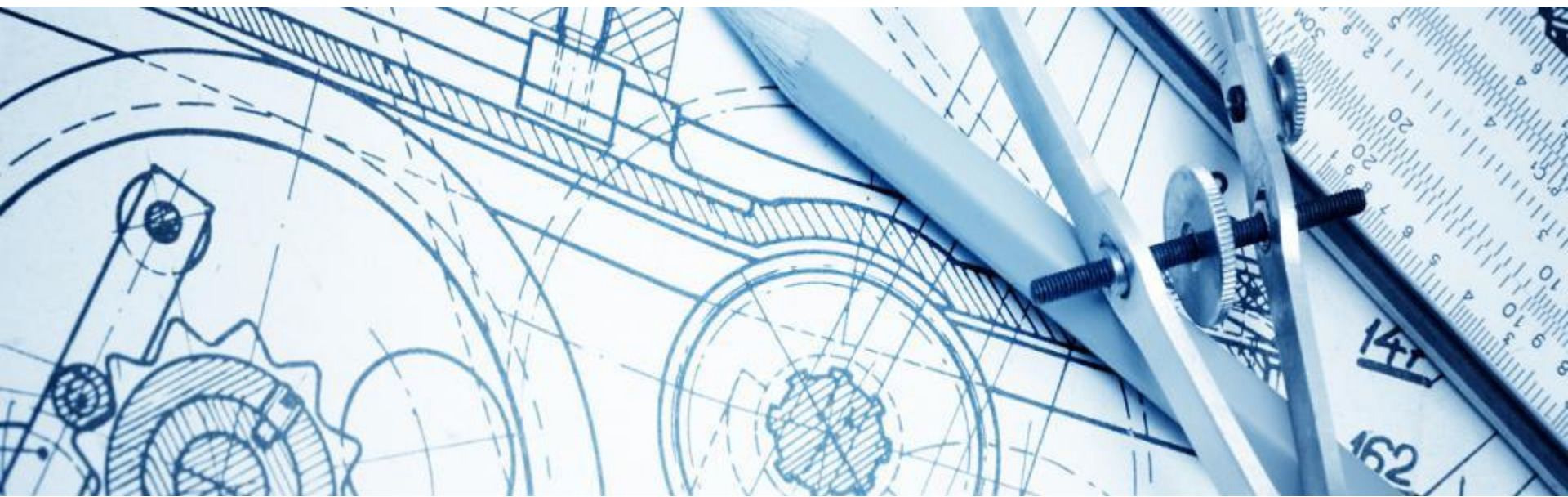
Testopsy: Dissecting your Testing

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European Testing Conference

Introduction



Who am I?

- Context-driven software tester
- Rapid Software Testing teacher
- Scrum master & agile expert
- Humanist
- Curious & lifelong learner
- Passionate & energetic people lover
- Trainer, coach, writer, speaker & leader
- Books & Apple gadget collector
- Trombone player
- Gamer
- **STAR WARS** & *LEGO* freak
- Beer brewer
- Aspiring Magician



What do you do when you test?



Unplanned... unanticipated... unspoken work...

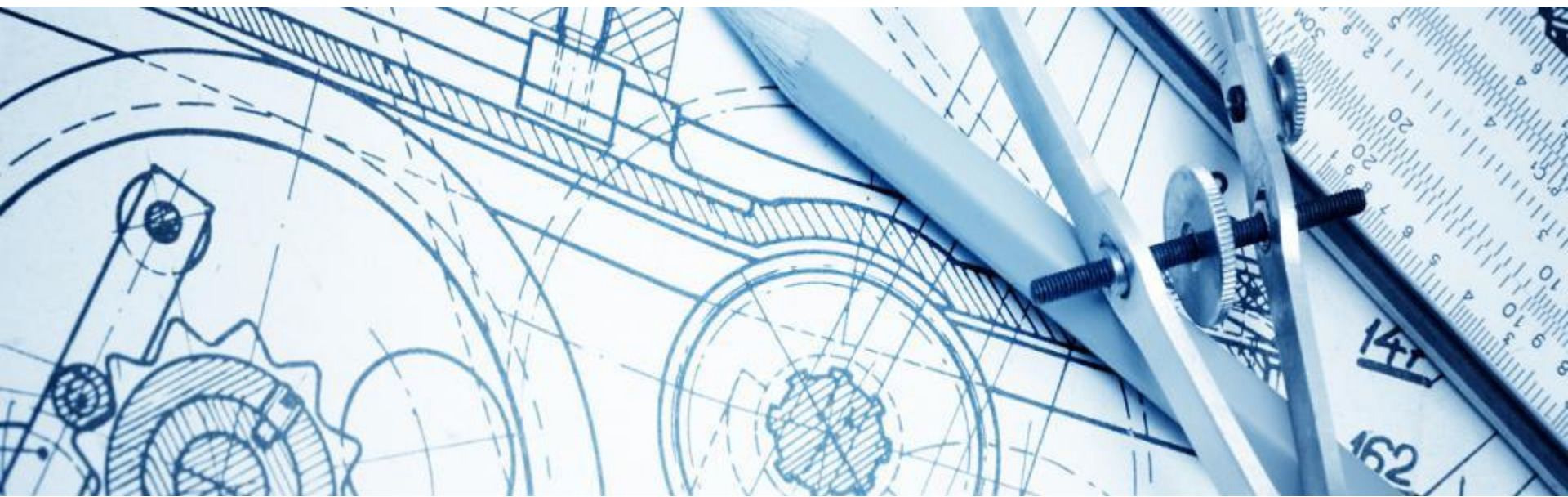
How do you learn?

If you don't know what activities, tactics or skills you are using (or should use), how can you learn or train them?

Learn by experience:

- Concrete, challenging & achievable tasks
- Realistic application, processing & reflection
- Personal interpretation, exchange with others & constructive feedback
- Safe environment to experiment & make mistakes

Testopsies



What?

autopsy (n): a critical examination or dissection of a subject or work

testopsy (n): an autopsy of a testing session

Testopsy

A testopsy* is an examination of testing work, performed by watching a testing session in action and evaluating it.

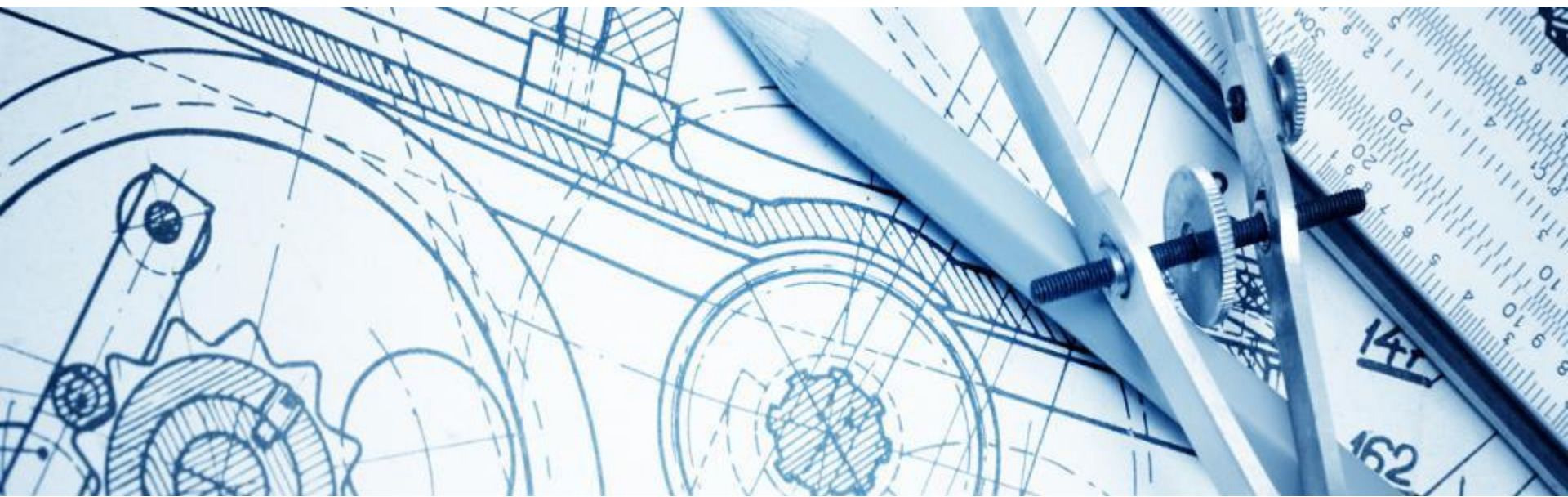
Testopsies can help in training, assessment, and developing testing skill for novices and experienced testers alike.

* The term testopsy is coined by James Bach

The Basic Idea

- Observe a testing session (your own or somebody else)
- Become aware of something interesting or complicated
- When you're aware of it, name it and make it explicit.
 - “Is there a name for that?”
- Having made it explicit, analyze it
 - When do you need to do it?
 - When do you need to avoid it?
 - Do we like it? Do we want it?
- Close the loop intentionality
 - Intend it
 - Do it
 - Explain it
 - Justify it

Let's Test!



Task Coach

Task Coach - C:\Documents and Settings\Frank\workspace\taskcoach0_71\TODO.tsk

File Edit View Task Effort Category Note Help

Task tree

Tree of tasks Search

Subject Due date

- New screenshots 2007-04-01
 - Publish new screenshots 2007-04-01
 - on Freshmeat 2007-04-01
 - on Sourceforge 2007-04-01
 - on taskcoach.org 2007-04-01
 - Create new screenshots 2007-04-01
- Improve reminders
 - Postpone reminders (snooze)
 - Show missed reminders
- Update translations for release 0.62
- Add Task Coach to directory.fsf.org
- Make viewer layout persistent

Categories

- Bug
 - Crash
 - Data loss
 - Translation
- Feature
 - Publicity
- Settings
- UI

Effort

Effort per day Search

Period	Task	Time spent	Total time spent
2008-06-12	New screenshots -> Publish new screenshots -> on taskcoach.org	0:46:50	0:46:50
	New screenshots -> Publish new screenshots -> on Sourceforge	2:13:12	2:13:12
	New screenshots -> Publish new screenshots	1:28:14	4:28:16
	New screenshots		4:28:16
	Add Task Coach to directory.fsf.org	0:12:48	0:12:48
2007-04-15	New screenshots -> Publish new screenshots -> on Freshmeat	4:05:19	4:05:19

Effort: 1 selected, 13 visible, 14 total Status: 0 tracking

Product Coverage Outline

- is an artifact (a map, list, diagram, sketch, table...) that identifies the dimensions or elements of a product that might be relevant to testing it
- The Product Elements section of the Heuristic Test Strategy Model (SFDIPOT) provides a point of departure for creating a coverage outline

What I did (and why)

- I explored the application with the intention to create an overview which is helpful for further testing
- I created a mind map based on set of ideas: SFDIPOT heuristics from the Heuristic Test Strategy Model)
- I learned rapidly about the application by interacting with it and recording this in my mind map
- Creating a map has 2 goals:
 1. explore the application in a systematic way
 2. learn about useful aspects of the application

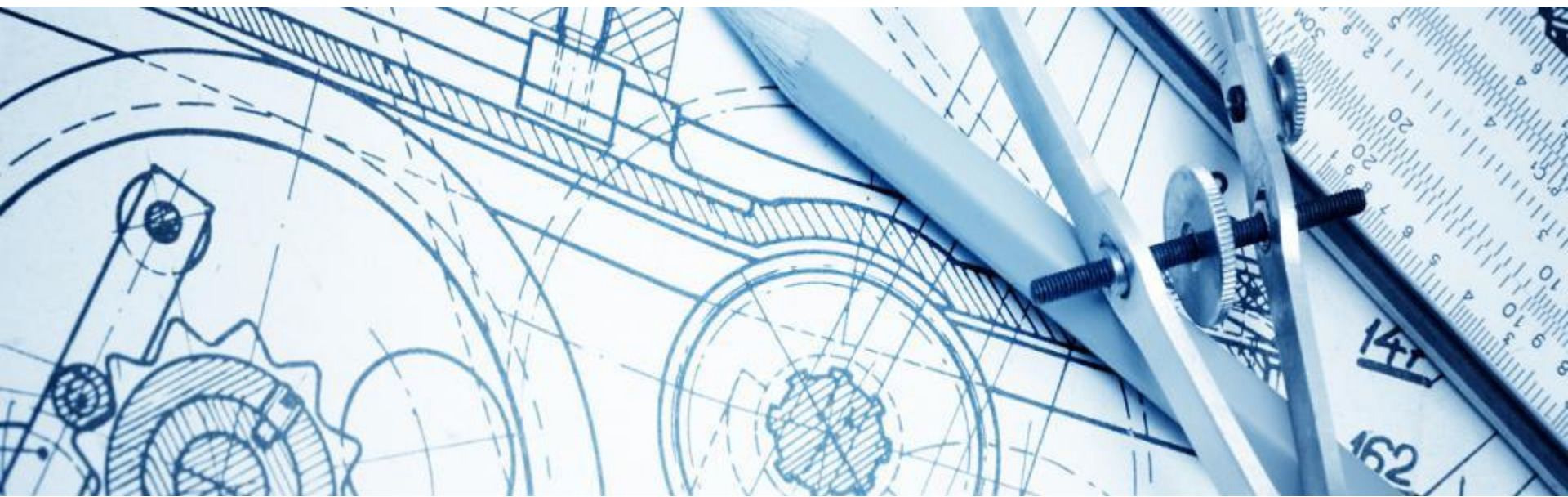
Watch the video

**Product
coverage outline**

Huib Schoots
www.huibschoots.nl/blog

<http://youtu.be/NUojNfDjIjw>

Demo Test Session



Preparation

- Work in pairs and create a list in 5 minutes of activities, tactics and skills you expect me to do when testing “Task Coach”
- When you see me test later:
 - Tick off the things on your list you see me do
 - Add new activities, tactics and skills you discover

DEMO

Coding system

A coding system, a map of out the activities that testers perform and the skills and tactics they apply, helps a in observing and analyzing the work.

Use the coding system to guide observation of a testing session. Record what happens, and discuss the activity. Finally refine the coding system.

Example Coding system

Exploration Skills

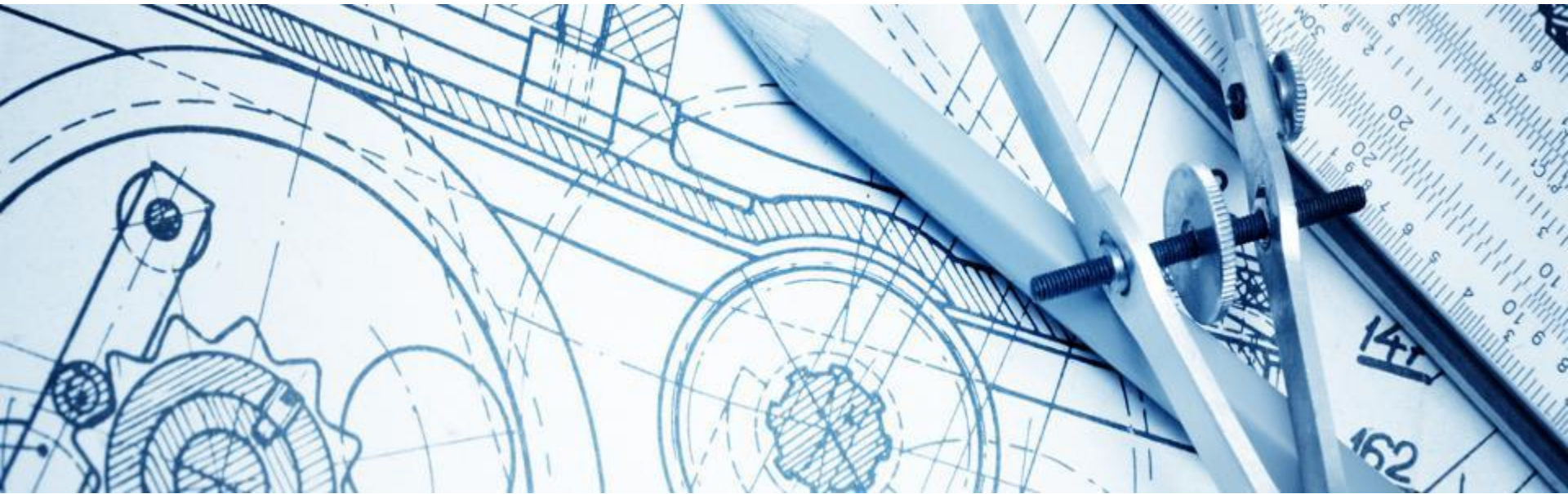
These are
observational

Self-

Testing

	Applying tools. Enabling new kinds of work or improving existing work by developing and deploying tools.
	Interacting with your subject. Making and managing contact with the subject of your study; for technology, configuring and operating it so that it demonstrates what it can do.
	Creating models and identifying relevant factors for study. Composing, decomposing, describing, and working with mental models of the things you are exploring. Identifying relevant dimensions, variables, and dynamics.
	Discovering and characterizing elements and relationships within the product. Analyze consistencies, inconsistencies, and any other patterns within the subject of your study.
	Conceiving and describing your conjectures. Considering possibilities and probabilities. Considering multiple, incompatible explanations that account for the same facts. Inference to the best explanation.
	Constructing experiments to refute your conjectures. As you develop ideas about what's going on, creating and performing tests designed to disconfirm those beliefs, rather than repeating the tests that merely confirm them.
	Making comparisons. Studying things in the world with the goal of identifying and evaluating relevant differences and similarities between them.
	Detecting potential problems. Designing and applying oracles to detect behaviors and attributes that may be trouble.
	Observing what is there. Gathering empirical data about the object of your study; collecting different kinds of data, or data about different aspects of the object; establishing procedures for rigorous observations.
	Noticing what is missing. Combining your observations with your models to notice the significant absence of an object, attribute, or pattern.

Now you!



How to do a Testopsy?

1. Record a session of your testing.
2. Go through the recording and note every single activity that you did. Put specific words to each activity.
3. Explain why you did what you did.

You can do this for a 10 minute session or a two-hour session. I personally feel that very short sessions that are rich in product learning and test design are the most interesting to study.

**QUESTIONS,
YOU HAVE,
HMM?**



References Testopsy

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- Testing Story - <http://www.developsense.com/blog/2012/02/braiding-the-stories/>

Acknowledgements

- Some slides shown are taken from Rapid Software Testing and are used with permission.
- Rapid Software Testing is developed by James Bach and Michael Bolton. Also see:
http://www.satisfice.com/info_rst.shtml

Rapid Software Testing (RST) is a mind-set and a skill-set focused on performing testing more quickly and less expensively while still completely fulfilling the mission of testing.



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Improve
QUALITY SERVICES

