

Title / Titel

## Evaluation of Test Tools – a Student Education Project

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Speaker(s) / Referent(s)

Ouafaa El Fenne, Christian Engelbarts, Marco Fischer, Arne Hein, Georgi Kraml,  
Marcel Lange, Matthäus Sommer, Frederik Tiemann and Prof. Dr. Karin Vosseberg  
Hochschule Bremerhaven

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Abstract / Zusammenfassung

Quality assurance is increasingly seen as an integrated task in the software development process. This is reflected in discussions on new methods of software development and in standardizations like the "ISTQB Certified Tester" - program. Along with these discussions a variety of test tools has been created to support the different testing tasks. The selection of a suitable test tool turns out to be very time consuming and difficult.

At the University of Applied Science Bremerhaven a one-year training project „Evaluation of Test Tools“ is carried out. Students of the bachelor programs Business Informatics and Systems Integration deal with the importance of testing tools in software development. The main questions are:

- Which test tools are used from the various involved groups in the different phases of software development?
- What are the different expectations associated in using test tools?
- Which decision criteria exist for the selection of test tools?
- How can test tools be classified based on the supported test methods and procedures?
- How can information about test tools be provided up-to-date and comparable?

A first objective is to develop criteria for comparison various test tools based on the principles of the "Certified Tester - Foundation Level". Existing examples for evaluation of test tools [1] or ideas of a general view of test methods [2] are used in the project. The students develop own approaches to provide information about a test tools comparison. These approaches are prototypically implemented.

Despite the increasing importance of software quality testing has for many computer scientists still the image of unpleasant, annoying and boring operations performed by testers and placed at the end of a project. But basic test skills are not only important for testers. This fact is so far not taken seriously in higher education [3]. The student project is one example to sensitize students on topics of quality assurance. It provides the opportunity to integrate basic test skills in the computer science education. The student project will be completed by the end of the summer term. In the talk the experiences and the current results of the project will be presented.

References

- [1] T. Illes et al.: IX Studie Software-Testmanagement. Heise-Verlag, Oktober 2006  
[2] P. Zimmerer: Ein Poster zum besseren Testfallentwurf. Software Quality Conferences, Düsseldorf 2009  
[3] J. Coldeway: Schlechte Noten für Informatik-Ausbildung. OBJEKTSpektrum 05/2009, S. 12-15
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### **Biography / Biografie**

Prof. Dr. Karin Vosseberg hat einige Jahre bei der Commerz Systems GmbH in der Unternehmensentwicklung mit dem Schwerpunkt Qualitätsmanagement gearbeitet. Seit 2009 ist sie als Hochschullehrerin an der Hochschule Bremerhaven mit dem Schwerpunkt Systemintegration. Sie hat eine Vielzahl von Beiträgen auf Nationalen und Internationalen Konferenzen gehalten, z.B. SQC 2003 & 2008, Eurostar 2005, Conquest 2008.

Alle weiteren Autoren sind Studierende der Hochschule Bremerhaven in den Bachelorstudiengängen Wirtschaftsinformatik und Systemintegration.

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### **Contact information / Kontaktinformationen**

Vosseberg, Karin  
Hochschule Bremerhaven  
Fachbereich 2  
An der Karlstadt 8

27586 Bremerhaven  
Germany

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