

Lucas Test Academy

Sessions

1: V&V overview

- Definitions, terminology
 - unit, integration, system, acceptance
 - requirement based testing
- Test levels and techniques
- Inspection types and techniques

2: Strategies and organisation

- Test organisations
- Test strategies
 - test first
 - bottom-up/top-down

3: Test management

- Test planning
- Management
 - metrics
 - simulations
- maturity models

4: Test automation

- Test automation
 - return on investment
- Test tools and languages
 - test frameworks
 - test management tools
 - TTCN
 - MaTeLo

5: Test evaluation

- Empirical evaluation of test and inspection methods
 - ???
 - ???

6: Verification of characteristics

- Dependability
- Experiment planning
- Scheduling
- Model checking
- Safety verification

Lucas Test Academy is a forum for current and upcoming software test and quality managers. During a 8 months part time program experienced practitioners and Lucas researchers have seminars, evaluations, and discussions on topics related to software verification and validation and software quality management.

Simulation Model as key concept

The key concept of the test academy is a basic simulation model for the V&V-process in a software development organisation. The participants will throughout the achademy sessions tailor a framework for a simulation model for their own testing activities.

[Bild: simuleringsmodel]

Advantages for participating companies

- A practical and tailored program for educating their test- and quality managers
- A tailored simulaton model over the V&V-process
- Argument for attracting talented people
- A systematic way of co-operating with Lucas
- Benchmarking of V&V-processes

Advantages for Lucas research

- A systematic way of co-operating with companies
- Generate ideas for research
- A framework for research with companies on architecture-related topics
- The LUCAS Test Academy is given as a Ph.D. course

A typical 8 month program consists of 6 sessions, each 1-2 days off site. The Lucas Test Academy is organized as a commissioned education. The participants receive xxx credits.

Organisation

Participation - companies

LUCAS Gold members:

- Max 6 participants per year
- Participant in steering group selecting topics
- Strong influence on case studies

LUCAS Silver members:

- Max 2 participants per year

LUCAS Bronze members and other companies:

- Participation at the cost of 22 500 SEK (2004/2005) per participant
- Extracts from some sessions are presented as open Lucas seminars

Steering group

- LUCAS member representatives: Henrik Cosmo, SonyEricsson, Anders Levin, ABB, and Christina Linquist, Telelogic
- Lucas steering: Per Runeson and Boris Magnusson

Contact

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