



ISTQB Expert Level



WHO AM I?

Chris Van Bael

- ▶ Test consultant ps_testware
- ▶ Board KVIV SW Testing
- ▶ Board BNTQB
- ▶ ISEB Practitioner certified
- ▶ ISTQB Accredited trainer
- ▶ Book: Advanced Test Management



WHAT IS ISTQB?

“Enabling Test Professionals,

through Globally accepted Software Testing
Certification standards

to support their career development,
built on solid professional foundations and
exemplary organizational culture. ”



ROLES ISTQB

- ▶ Syllabi
 - Foundation, Advanced, Expert ITP
- ▶ Glossary
- ▶ Exam Guidelines
- ▶ Processes
 - (Cross) Accreditation
 - Examination
 - Certification

What is BNTQB

- ▶ Belgium and Netherlands Testing Qualifications Board
- ▶ Official member board of ISTQB for Belgium and the Netherlands
- ▶ www.bntqb.org
- ▶ www.bntqb.nl
- ▶ www.bntqb.be

BNTQB


- ▶ Meile Posthuma  Chair,
Syllabi
- ▶ Rik Kochuyt  Vice-chair,
Exams,
Repr. KVIV
- ▶ Bart Watertor  Treasurer,
Repr. TestNet




BNTQB



- ▶ Mieke Gevers  International Repr,
Marketing &
Communication
- ▶ Chris Van Bael  Secretary
- ▶ Rik Marselis  Processes

BNTQB



- ▶ Gerard Kruijff  2nd Secretary
- ▶ Alec Puype  Webmaster
- ▶ ? 

ROLES BNTQB

- ▶ Translates documents:
Glossary, Exam questions
- ▶ Chooses accreditation organization
- ▶ Chooses examination organization
- ▶ Create & review exam questions
- ▶ Quality assurance (audits)

ROLES BCS/ISEB

- ▶ Accreditation for Foundation
- ▶ Examination for Foundation

- ▶ Accreditation for Advanced
- ▶ Examination for Advanced

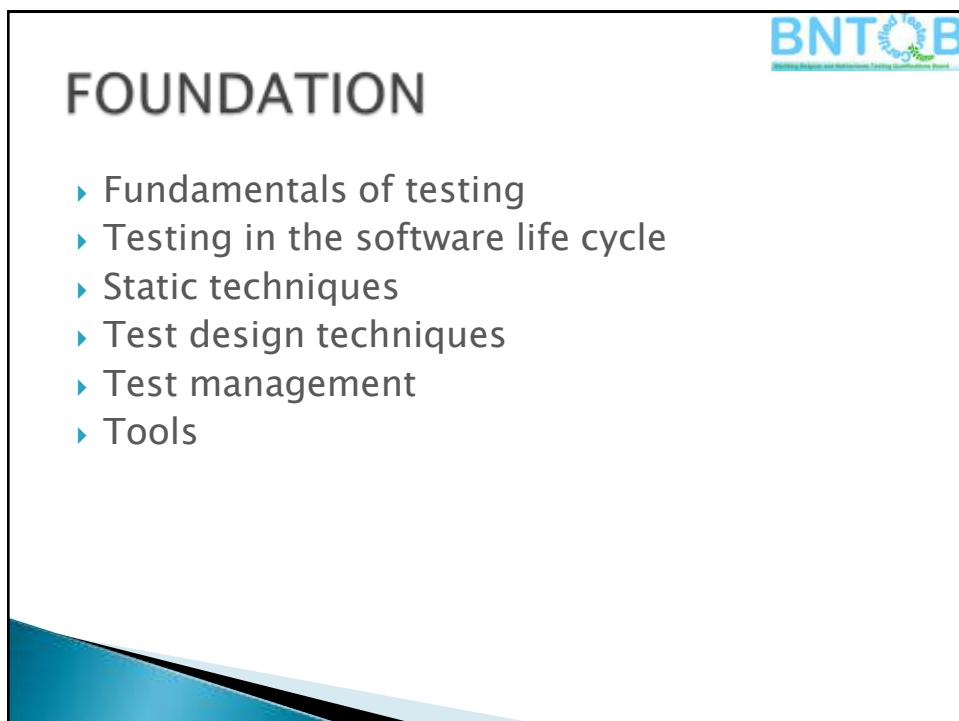
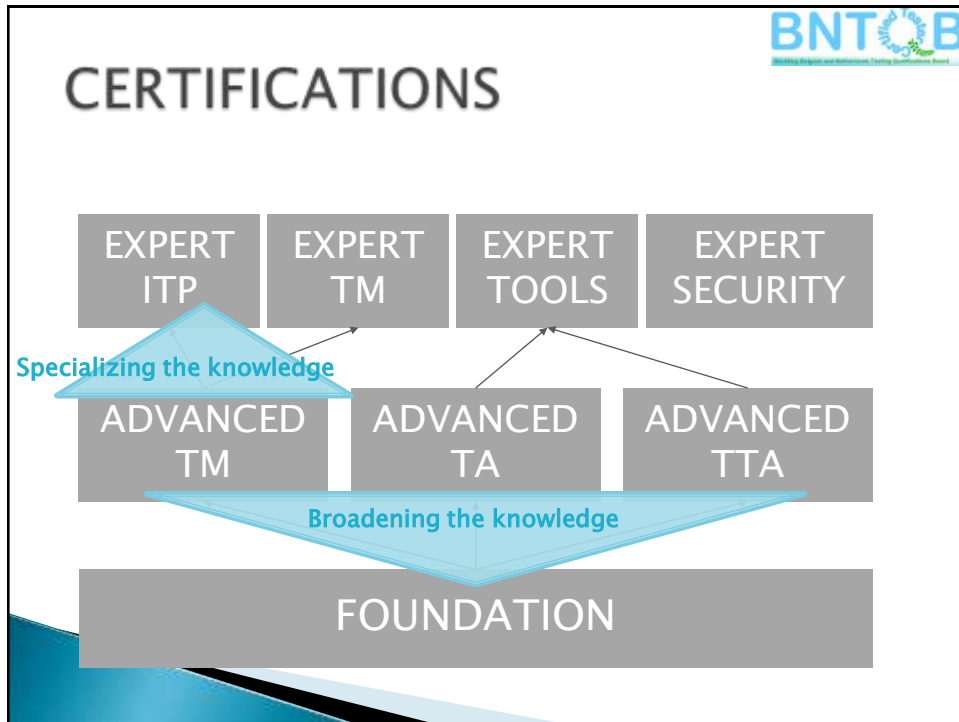


ROLES iSQI

- ▶ Examination for Foundation
- ▶ Examination for Advanced



CERTIFICATES



ADVANCED TM

- ▶ Basic aspects
- ▶ Test process
- ▶ Test management
- ▶ Reviews
- ▶ Incident management
- ▶ Improvement / Standards
- ▶ Tools
- ▶ People skills

ADVANCED TA

- ▶ Test process
- ▶ Risk
- ▶ Black box techniques
- ▶ SW characteristics
- ▶ Reviews
- ▶ Incident management
- ▶ Tools

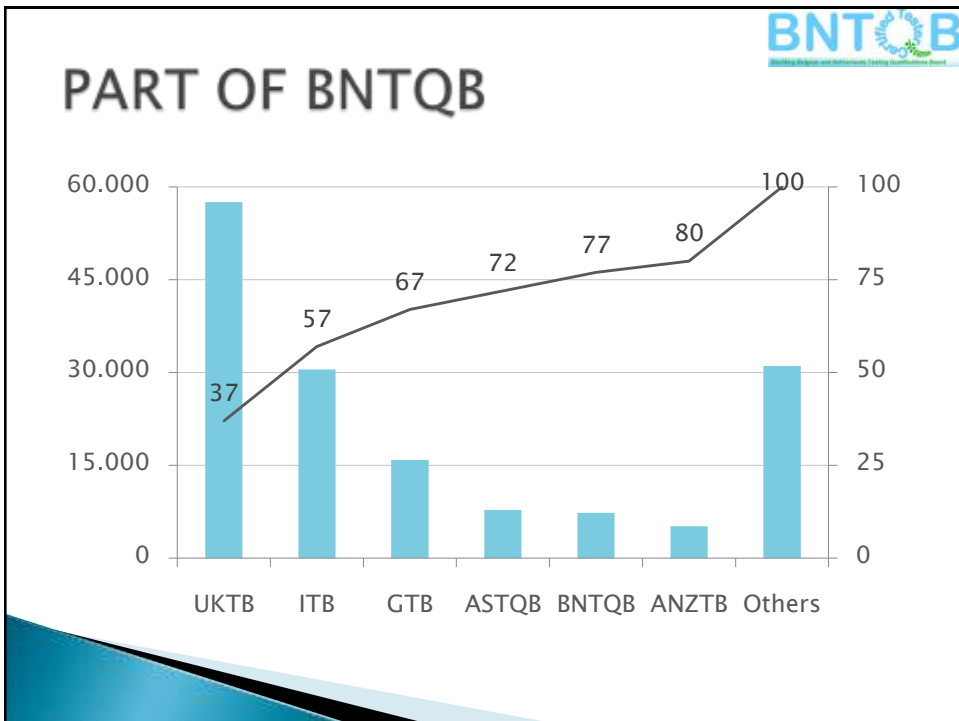
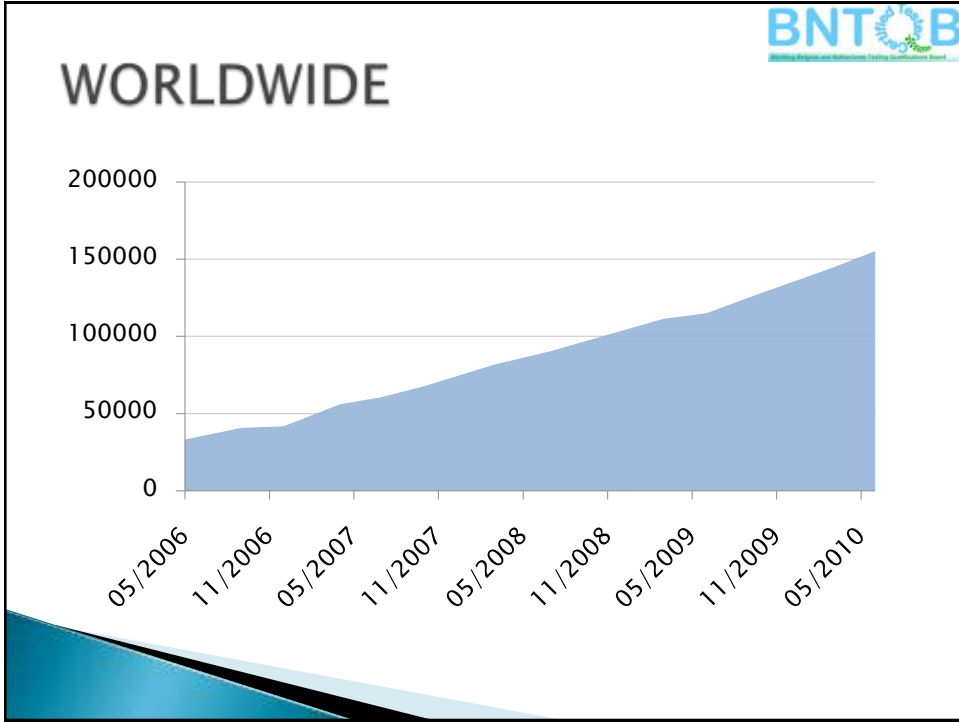


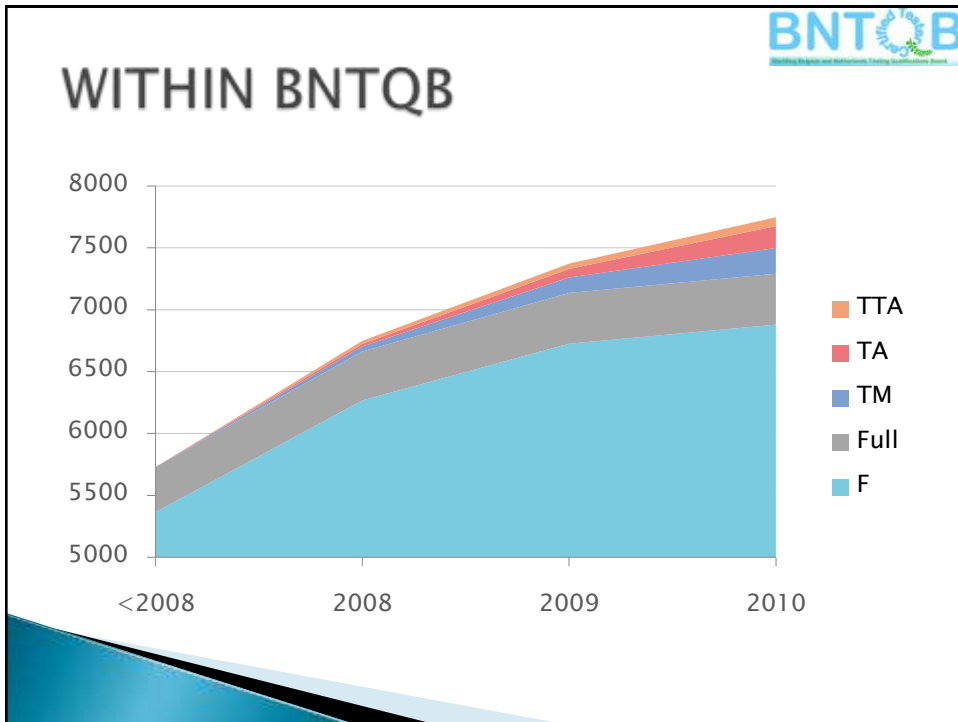
ADVANCED TTA

- ▶ Test process
- ▶ Risk
- ▶ White box techniques
- ▶ SW characteristics
- ▶ Reviews
- ▶ Incident management
- ▶ Tools



NUMBERS







WHAT IS AN EXPERT?

An expert is a person with the **special skills and knowledge** representing mastery of a **particular testing subject**. Being an expert means possessing and displaying special skills and knowledge derived from **training and experience**.

- ▶ Advanced point in career
- ▶ Broad knowledge of testing in general
- ▶ In depth understanding in a special test area
- ▶ Able to influence the direction



ISTQB Expert Level Improving the Testing Process

Chris Van Bael

PREREQUISITES


- ▶ ISTQB Advanced Test Manager
- ▶ >5 years testing experience
- ▶ >2 years experience in topic
- ▶ One paper OR presentation on topic

WHAT IS AN EXPERT IMPROVING THE TESTING PROCESS?

- ▶ To advise on test process improvement.
- ▶ To ensure that the implementation of test process improvements within their organization or project takes place effectively and stands the best chance of success.
- ▶ To fulfill the specific expert role within their organization or project.

ADVANCED vs EXPERT

Improving the Testing Process (1 / 4)



Test Improvement Process:

- Introduction to Process Improvement
- Types of Process Improvement

Improving the Testing Process:

- I.M.P.R.O.V.E.

Improving the Testing Process:

- with TMM
- with TPI
- with CTP
- with STEP

Capability Maturity Model Integration

Context of Improvement

- Why improve testing?
- What can be improved?
- Views of Quality
- Generic Improvement Process
- Overview of approaches


Model-based Improvement:

- Introduction
- Software Process Improvement Models (CMMI)
- Test Process Improvement Models (TPI Next, TMMi)
- Content-based Models (STEP, CTP)

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ADVANCED vs EXPERT

Improving the Testing Process (2 / 4)



+ Analytical Based Improvement:

- Causal Analysis
- The GQM Approach
- Analysis using Measures, Metrics and Indicators

+ Selecting the Approach for Test Process Improvement:

- Selecting approaches

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ADVANCED vs EXPERT

BNTOB

Improving the Testing Process (3/4)

+ →

Process for Improvement:

- Introduction
- Initiating the Improvement Process
- Diagnosing the Current Situation
- Establishing a Test Improvement Plan
- Acting to Implement Improvement
- Learning from the Improvement Program

People Skills:

- Individual skills
- Fitting testing within an organization

Organization, Roles and Skills:

- Organization
- Individual Roles
- Skills

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ADVANCED vs EXPERT

BNTOB

Improving the Testing Process (4/4)

+ →

Managing Change:

- Fundamental Change Management Process
- Human Factors in the Change Management Process

+ →

Critical Success Factors:

- Key Success Factors
- Setting a Culture for Improvement

+ →

Adapting to Different Life Cycle Models

30

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COURSE

- ▶ Course teaching + exercises: 6 days
- ▶ Exercises in the workplace: +2 days
- ▶ Max. 10 students
- ▶ Exam: 3 hours
 - 1 hour multiple choice (K2–K4)
 - 2 hours essay (K5–K6)

FAQ

- ▶ Numbers: 10–15% of TM
- ▶ Collaboration of training providers is expected

OTHER EXPERT LEVELS

- ▶ Test Manager: Q2 2011
- ▶ Test Automation: Q1 2012?
- ▶ Security Testing: recently started

QUESTIONS

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WHO AM I?

Marcel Kwakernaak

- ▶ Senior Test Consultant
- ▶ Partner The Future Group/ TestDynamics
- ▶ Board ISTQB
- ▶ Author ISTQB EL Test Management Syllabus
- ▶ ISEB Practitioner certified
- ▶ Prince2 Practitioner certified

- ▶ *Book Setup: "Delivery On Quality" Handbook*



WHY THIS PRESENTATION?

To Promote the ISTQB Expert Level
Test Management Module

Please be aware that the...

Expert Level Test Management Syllabus:

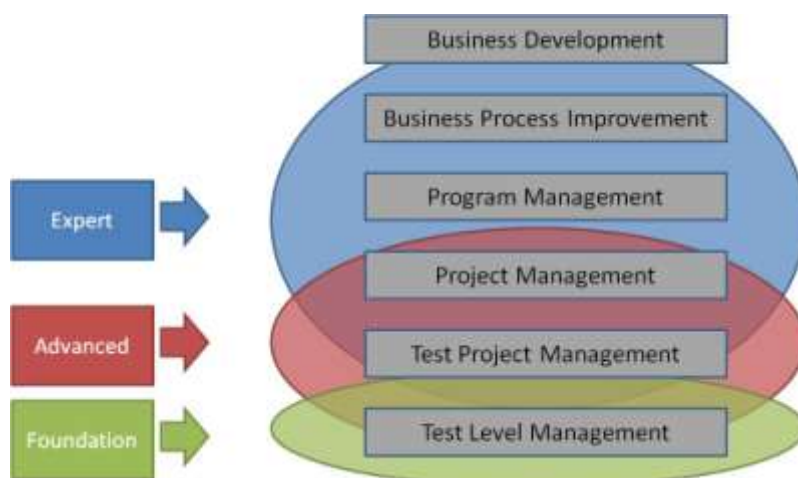
- ▶ Is still under development and subject to changes
- ▶ Is to be approved by the General Assembly as of March the 8th at the Czech Test Conference
- ▶ Release is now expected to be in June 2011

WHAT IS AN EXPERT TEST MANAGER?




- ▶ An Expert Test Manager is able to influence the direction that an organization takes when creating test management activities.
- ▶ An Expert Test Manager is able to lead testing activities and to manage critical success factors with management commitment.

TEST MANAGEMENT FOCUS





WHAT IS THE APPROACH?



- Expert Level Working Groups
- Expert Level Syllabi build on Advanced Level
- Expert Level Certification Modules
 - ▶ Improving The Test Process 2010 ✓
 - ▶ Test Management 2011 June
 - ▶ Test Automation
 - ▶ Security Testing

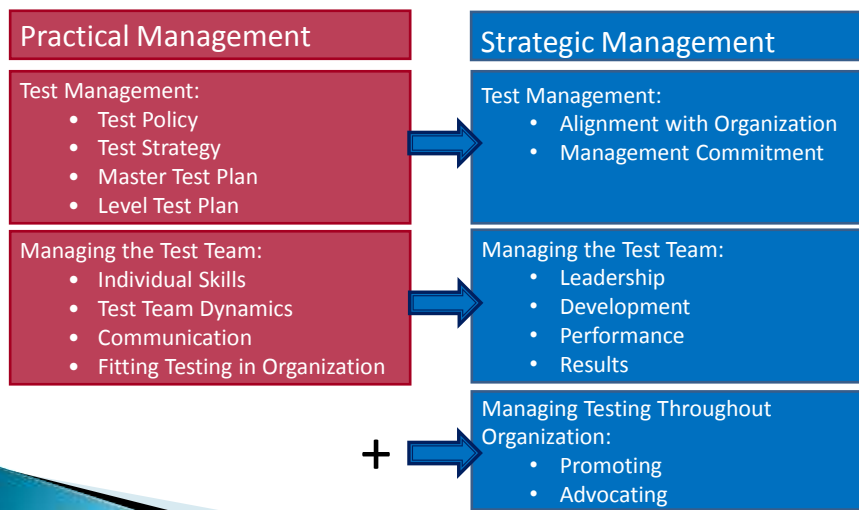
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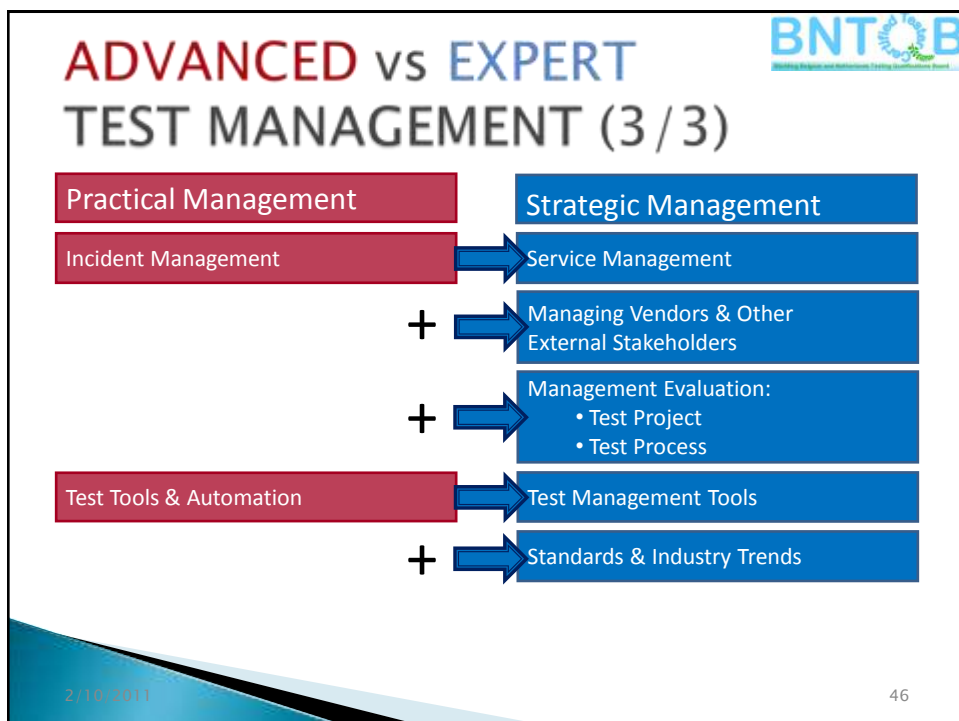
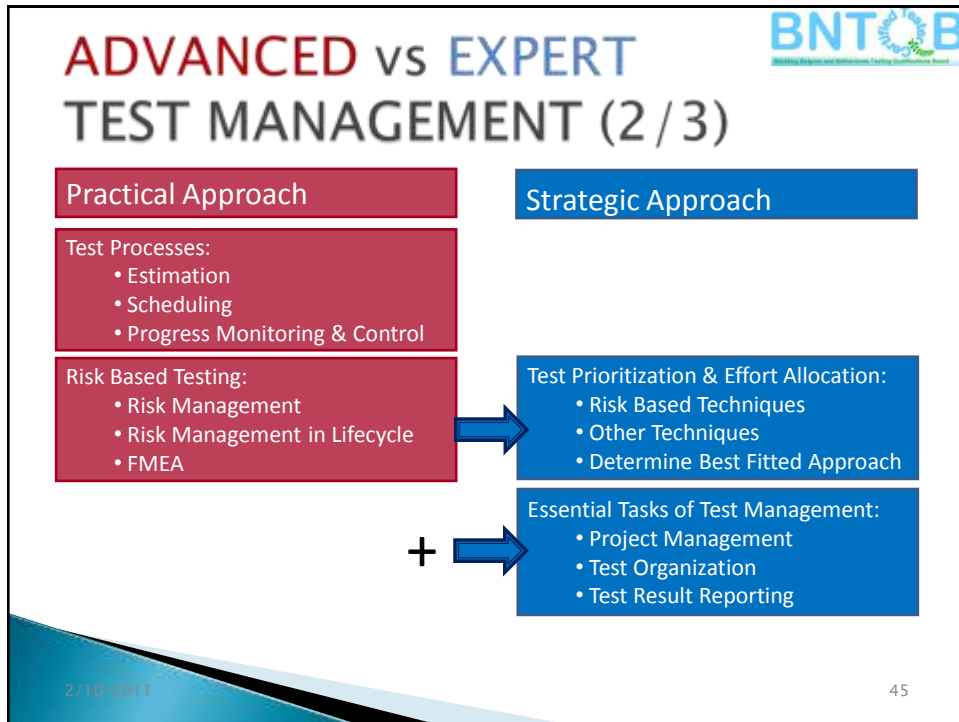
- ▶ Content based on explicit Learning Objectives
- ▶ > 50% of course time on practical exercise

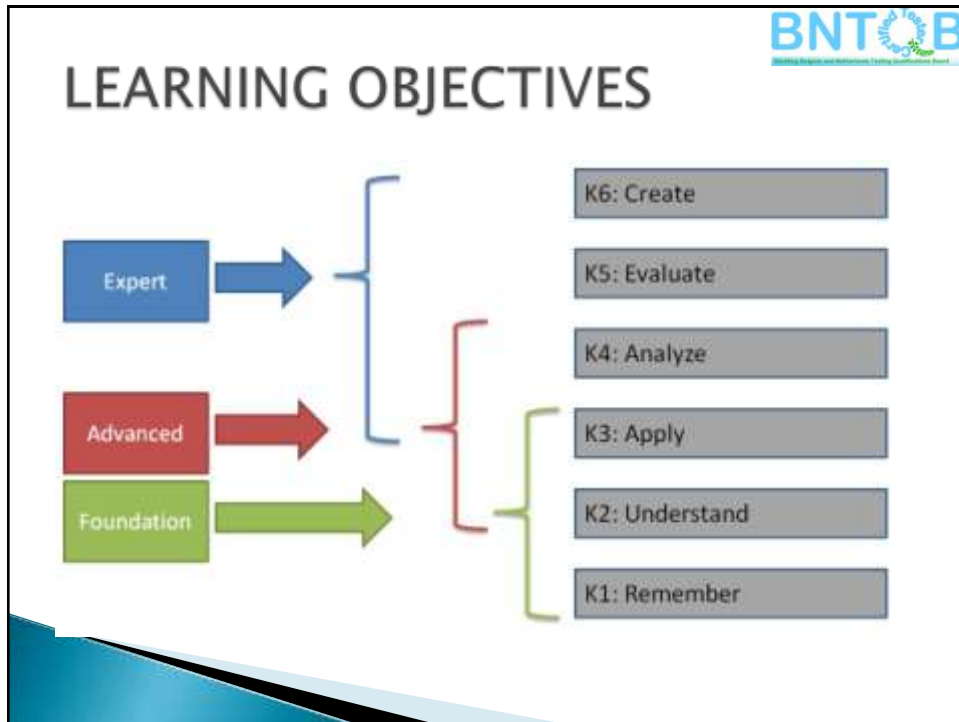
WHAT IS IN IT FOR ME?

- ▶ Providing in-depth knowledge of test management theory and practice
- ▶ Enabling Expert test managers to be recognized and to raise their profile.
- ▶ Improving Expert test managers capabilities to influence the direction of an organization
- ▶ It will impress and raise authority

ADVANCED vs EXPERT TEST MANAGEMENT (1 / 3)







THANK YOU!



QUESTIONS ?



ISTQB Certified Tester Expert Level

Certification Extension Policy

Rik Marselis



What is the C.E.P.?

- ▶ “Once certification for a module at Expert Level has been achieved, a Certification Extension Program (CEP) shall provide guideline for re-certification”

When to receive extension?

- ▶ “Extension is achieved by re-taking the exam for the Expert Level certificate or by completing activities in at least two Activity Categories (...) in such way that they accumulate a minimum of 200 Certification Extension Credits (...)”


More about extension credits?

- ▶ Collect 200 CEC credits every 5 years
- ▶ Credits are given for various activities, ex:
 - Execute professional testwork: 3 credits/month (max. 120 credits in 5 years)
 - Follow a test training (5 credits per half day)
 - Attend a test conference (5 credits per half day)
 - Present at a test conference (20 credits per new presentation)

More about extension credits?

- ▶ Credits are give for (continued);
 - Give a testtraining (5 credits per half day for the first training, 2,5 credits per day for 2nd and 3rd training, after that no credits)
 - Write a test article (25 credits for a published article, some extra rules apply)
 - (Co-) Write a book (10 credits per 25 pages with 350 words)
 - Participate in an ISTQB Working Pary (5 points per half day)

QUESTIONS



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