



Lifelong
Learning
Programme

Vocational Training in Assessment of Existing Structures

Agreement number: CZ/11/LLP-LdV/TOI/134005

Welcome to the 4th meeting in Regensburg on 11. -12.10.2012





The third meeting in Barcelona



The third meeting in Barcelona



The third meeting in Barcelona

14.06.2012 09:51



The third meeting in Barcelona



The third meeting in Barcelona

16.06.2012 10:39

Partners – roll call of delegates



P1: KI, Co-ordinator, Milan Holicky, Jana Pallierova

P2: SPSS, Assoc.p., Roman Gottfried, Vladislava Návarová

P3: HR, Core partner, Dimitris Diamantidis

P4: IET, Core partner, Peter Tanner

P5: UOP, Core partner, Pietro Croce

P6: TNO, Associated p., Ton Vrouwenvelder

P7: PAU, Core partner, Mehmet Inel, Sevket Senel

Agenda – Thursday, October 11

- Opening at 1:00 p.m..
- Adoption of the agenda.
- Administrative issues (Jana Pallierova, Milan Holicky).
- Discussion about Guidebook 1 (Dimitris Diamantidis).
- Discussion about Guidebook 2 (Pietro Croce).
- Discussion about Guidebook 3 (Milan Holicky, Roman Gottfried).
- Meeting and seminar in Pisa, 14-15/03/2013 (Pietro Croce).
- Subsequent meetings and seminars in Denizli, 06-08/06/2013, (P7).
- Final meetings and seminars in Prague, 26-27/09/2013, (P1).

Handbook 1 – ENG version

Completed!

Handbook 1 – Innovative methods for the assessment of existing structures

- book + CD (148 pages)
- finalized (for printing) and printed in the CR
 - graphic layout, DTP work + pre-press: 453 EUR
 - printing: 788 EUR
 - production of CDs: 369 EUR
- **How many books+CDs for each partner?**

Production of Handbook 2

Handbook 2 - Operational techniques for the assessment of existing structures

book + CD (200 pages)

version ENG, CZ

available 31/5/2013

responsibility: P5 (P.Croce) – book completion,
printing ENG version, sending to partners

How many books+CDs for each partner?

Handbook 2 – preliminary index (I.)

(more details – see Minutes_4_Reg.doc)

- **Chapter 1: Basic concepts and terminology (P1, P4, P5)**
- **Chapter 2: Evolution of the past European national codes (P5 -All)**

As the building and bridge design philosophy and loads are considerably evolved during the last century it is necessary to recall the most relevant national codes used in the past and basic information about them, in relation to EN (short description, mainly concerning the design and assessment philosophy).

By 31/01/2013, all partners will send to P5 (P. Croce) a list of existing codes, relevant to their country.

Handbook 2 – preliminary index (II.)

(more details – see Minutes_4_Reg.doc)

Chapter 3: NDT, inspection techniques & monitoring

(P5, P1, P2, P4, P7)

Chapter 4: Modelling and analysis of masonry structures

(P5, P7)

Chapter 5: Verification procedure (P3, P1, P6)

Chapter 6: Applications of updating (P4, P3, P5)

Chapter 7: Concrete structures (P5, P4)

Chapter 8: Steel structures (P5, P4)

Chapter 9: Timber structures (P5)

Chapter 10: Masonry structures (P5)

Chapter 11: Seismic retrofit of buildings (P7)

Chapter 12: Seismic retrofit of bridges (P5, P4, P7)

Chapter 13: Heritage structures (P5, P7, ?)

Chapter 14: Concluding remarks (P5)

Handbook 2

By 31/12/2012, each partner involved in a chapter sends his contribution to the “leader” of the chapter (the one written as the first in the brackets after the name of the chapter).

The “leader” works all in and sends the draft of the chapter to all partners by 31/01/2013. These chapter drafts will then be finalized during the meeting in Pisa.

Production of Handbook 3

Handbook 3 - Basis for assessment of existing structures

- book + CD (120 pages)
- version ENG, CZ
- available 31/5/2013
- responsibility: **P2 (R. Gottfried) – book completion, translation, printing ENG + CZ version, sending to partners**
- **How many books+CDs for each partner?**

Handbook 3: Basis for assessment of existing structures

P2, P1 – 31/05/2013

Project proposal:

- General framework of the assessment (terminology and basic requirements for safety, serviceability and durability)
- Methods of assessment
- Statistical evaluation of data for the assessment (materials, geometry, actions, degradation, evaluation of results of inspections, proof loading and testing)
- Verification of buildings (partial factor method)
- Worked examples

Bilateral meetings of P1 and P2 on May 16 and August 27, 2012

Handbook 3: Preliminary contents (1)

as discussed in Pisa

P2, P1 – 31/05/2013

- 1) Introduction (background materials, educational aspects, common practice, contents of HB3, basic principles of assessment) (P1,P2,P3)
- 2) General framework of the assessment (P1)
(terminology, basic requirements for safety, serviceability and durability)
- 3) Procedures of assessment (general procedure, testing, previous performance) (P2) - ISO

Handbook 3: Preliminary contents (2)

as discussed in Pisa

P2 – 31/05/2013

- 4) Statistical evaluation of data for the assessment (materials, geometry, actions, deterioration, evaluation of test results, load-bearing capacity) (P1)
- 5) Methods of assessment of buildings (partial factors method, characteristic and design values, load combinations) (P1,P2,P6)
- 6) Report on assessment (ISO, HB1) (P1,P2)
- 7) Examples (P2,P1,P3,P4,P5)

HB3 - Sections developed till September 2012

Chapter 1: Purpose of the handbook (P1, P2, P3 – 31/05/2013)

Preliminary contents – 10 pages

Summary

1 Introduction

1.1 Motivation

1.2 Background materials

2 General principles of assessment

3 Basic concepts of ISO 13822

4 Implementation of assessment methods

4.1 National standards

4,2 International standards

5 Intended use of the Handbook

....

6 Concluding remarks

References

HB3 - Sections developed till September 2012

Chapter 2: General framework (P1– 31/05/2013)

Preliminary contents – 8 pages

Summary

- 1 Introduction
 - 2 Terminology and definitions
 - 3 Specifications in ISO 13822
 - 4 Methodology of ISO 2394 and EN 1990
 - 5 Assessment procedure
 - 5.1 Evaluation of data
 - 5.2 Structural analysis
 - 5.3 Assessment based on satisfactory past performance
 - 5.4 Assessment of safety
 - 5.5 Assessment of serviceability
 - 6 Concluding remarks
- References

HB3 - Sections developed till September 2012

Chapter 4: Evaluation of data (P1 – 31/05/2013)

Preliminary contents – 18 pages

Summary

- 1 Introduction
 - 2 Continuous random variables
 - 2.1 Random variable
 - 2.2 Characteristics of a random sample
 - 3 Probability distributions
 - 3.1 Normal distribution
 - 3.2 Lognormal distribution
 - 3.3 Gumbel distribution
 - 4 Fractiles of theoretical models
 - 5 Estimation of fractiles from samples
 - 5.1 General
 - 5.2 Classical methods
 - 5.3 Prediction method and Bayesian estimates
 - 6 Concluding remarks
- References

HB 3 –conception

- based on HB1,2
- following ISO 13822 + chapters on basic statistics + simple case studies
- minimum mathematical theory
- data updating mentioned only
- practical examples partly adopted from HB 1, 2

By 28/02/2013, P2 (R. Gottfried) shall send to all partners a preliminary draft of the handbook in English (30-40 pages, without examples).

Interim Report

Documentation requested **by 31/10/13**

- 1) Signed Financial tables (*financial reporting tables.xls*)
- 2) Signed VAT declaration (*VAT declaration of honour.doc*)
- 3) Double-signed Time sheets (*Time sheet.xls*)
- 4 Double-signed Calculations of travel expenses (*Calculation of travel expenses.xls*)
- 5) List of dissemination (*list of dis.act.xls*)
+ leaflets, posters, presentations, articles (with new logo!)

Interim Report

Documentation requested **by 31/10/13**

- + business trip expense sheets of your institute
- + train/bus/public transport/air tickets tickets, hotel bills, travel insurance bills, etc.
- + bank account statements proving all bank transfers in project
(P4-IETcc, P6-TNO bank acc.st. proving the 1st payment receipt)
- + orders, invoices, bank account statements proving payment for Subcontracts and Other expenses

More detail guidance – see Interim report-financial part-requested documentation.pdf

Invitation to the fifth meeting in Pisa on 14-15/03/2013

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03.11.2010 15:47