



Fourth European Workshop on

Introduction – Session 5: Training

Session 5, Training: Andersen, Nilsson

**Standardized Procedure for the Inspection
of Sprayers in Europe
-SPISE 4-**

27 to 29 March 2012 – Lana (Italy)



Introduction – Session 5: Training

- Per Gummer Andersen
– Betterspraying, DK
- Eskil Nilsson
– Visavi, SE

Structure of Session 5, Training

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- Opening the session
- Introduction paper of the chairman
- Presentations from the speakers
 - Greg Doruchowski ; Sprayer calibration training – concept and performance
 - Paolo Balsari; The necessity of a harmonised procedure for sprayers inspectors training. The Italian activity.
 - Heribert Koch; Training of inspectors for the periodic inspection of spraying equipment in a system of authorised mechanic workshops.
- Discussion of the
 - presentations
 - relevant experiences of MS & Experts
 - Possible development of uniform course, examination, material
- Listing of subjects to be dealt with by SWG.
- Register for TWG

Training of sprayer inspectors

- **Objectives:**
- Inspector training is part of mutual recognition.
- Inspectors training can be accepted also in other countries?
- Possible to have a uniform level of training?
- Possible to have exchange of training material and experiences?
- Input for countries in process.

Training of sprayer inspectors

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- How is training organised and performed?
- Questionnaire on today's- or planned activities.
- 24 countries responded.
- Answers are mainly from before implementing 128/2009 EG.
- Thank you for your assistance!!!!

Training of sprayer inspectors

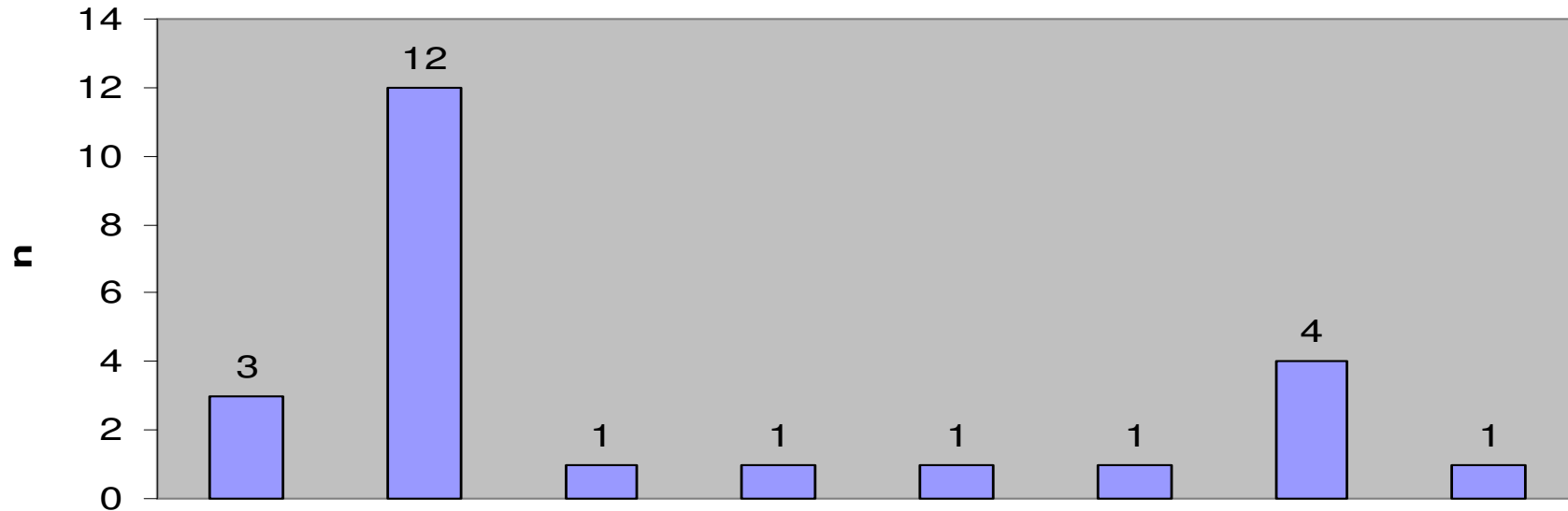
Questionnaire answers

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- Belgium
- Czech Republic
- Denmark
- Estonia
- Finland
- Germany
- Hungary
- Ireland
- Italy
- Latvia
- Lithuania
- Luxembourg
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Serbia
- Slovak Republic
- Spain
- Sweden
- Switzerland
- Turkey
- United Kingdom

Q 1: Responsible for training?

Responsible for training of inspectors



Own
organi
sation

Authority

Other
public

Research
institute

Private

No
formal

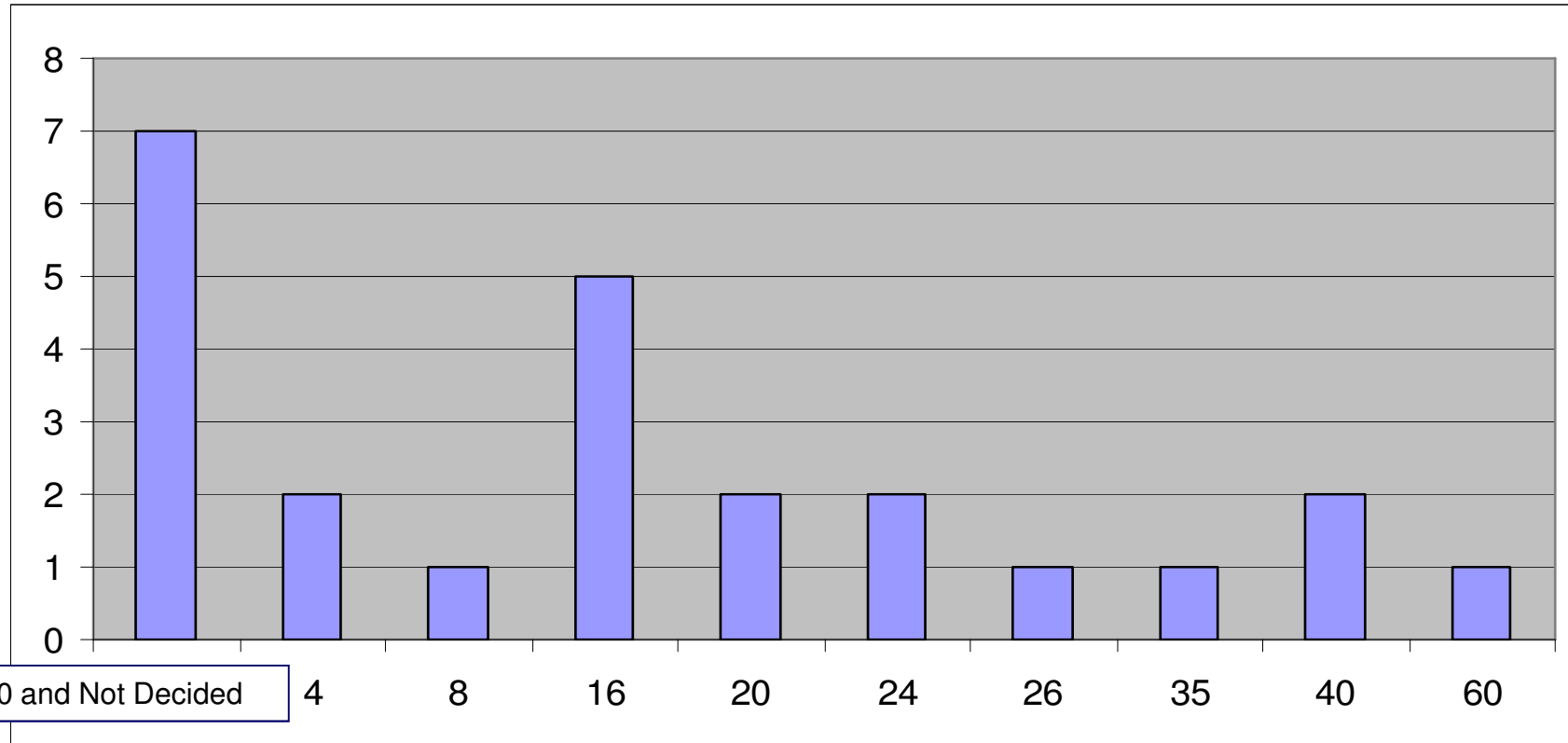
Not
decided

No
answer

- Training mainly under authority, public institutes
- No training - linked to engineer education
- Internal training – quality assurance, accreditation

7

Q 2 a: Basic course hrs?



Variations in course length



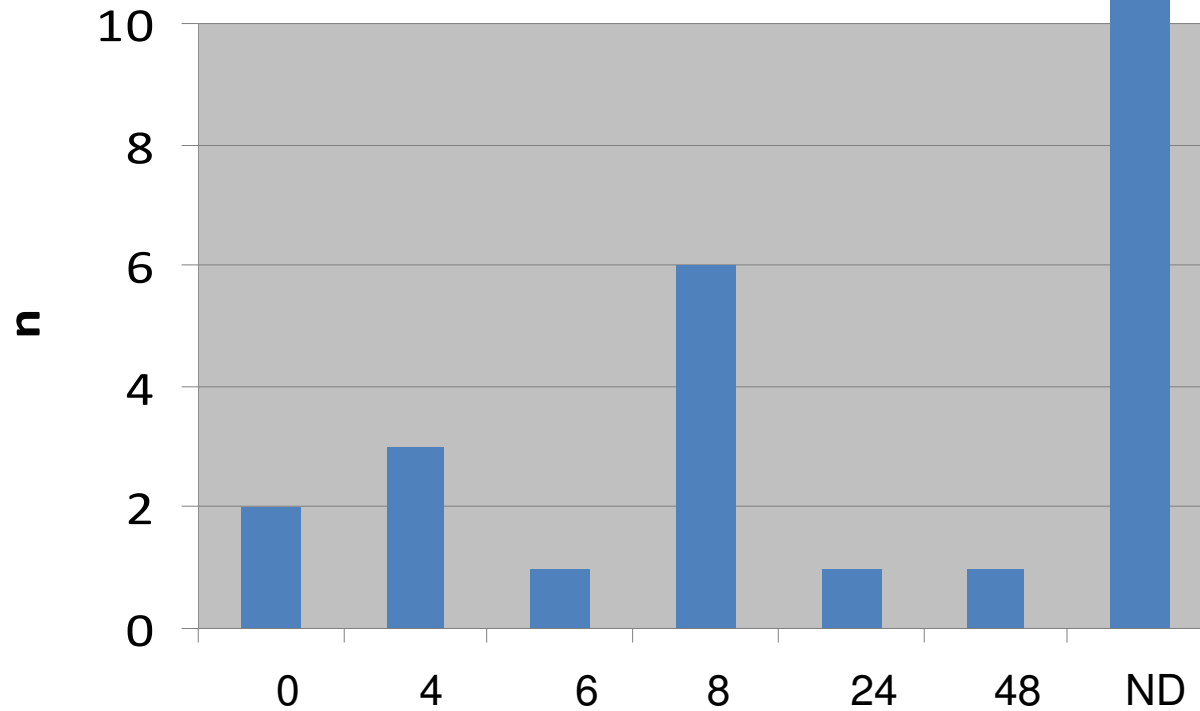
No course+engineer education

60 hrs + 1 month practice

Average 23 hrs, 3 days

Q 2b: Reshresher courses?

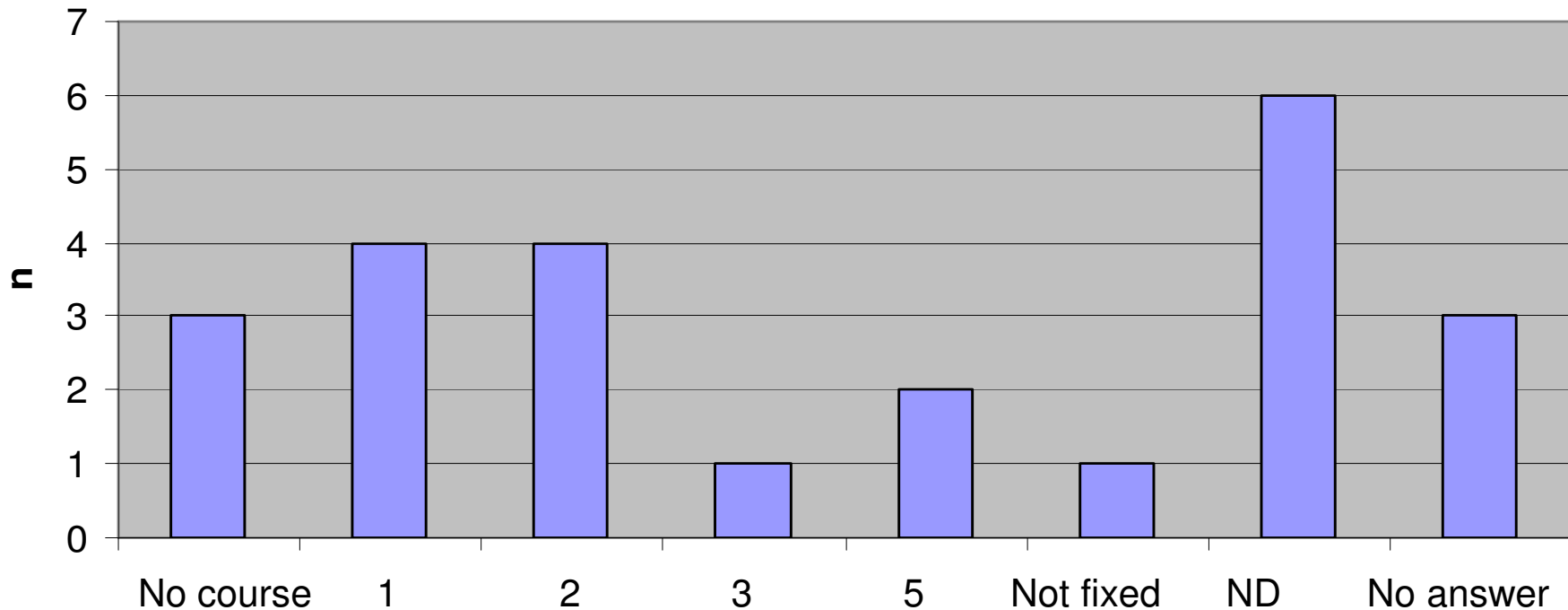
Reshresher course hrs



ND = Not yet Decided

Q 2 c. Refresher courses interval?

Refresher courses interval, years



- Interval: annual to 5 years

ND = Not
Decided

Q 2 d. Other demands on inspector?

- | | |
|---|---|
| • No other demands | 5 |
| • Technical/mechanical education | 6 |
| • Pesticide operator course | 2 |
| • Relevant technical experience on sprayers | 1 |

Q 3: General course of different?

- | | |
|---|----|
| • One general course | 13 |
| • Different boom- mistblowers | 1 |
| • 2 courses: Seed-dressers, others | 1 |
| • 3 courses: boom, mistblowers, others (greenhouse) | 1 |
| • 3 courses: boom, mistblowers, band (strawberries) | 1 |
| • Specialised courses | 2 |
| • Special for aerial sprayers | 1 |
| • Not decided | 6 |
| • Other solution: <ul style="list-style-type: none">– One basic course plus other sprayers on refresher courses | |

Q 4 Content in course, average % ?

4a: Regulations	11 % (0 - 40)
4.b: Inspection procedure, requirements	20 % (0 - 40)
4.c: Testing equipment	9 % (0 - 20)
4.d: Check, calibration of testing equipment	7 % (0 - 30)
4.e: Practicals	25 % (10 - 40)

Q 4 Practicals on course

- Variation 0 hrs – 1 month
- 2 hrs 1 country
- 3 hrs 1
- 4 hrs 3
- 8 hrs 3
- 12 hrs 1
- 16 hrs 2
- 20 hrs 1
- 35 hrs 1

Q 4 Content in course, average % ?

4.f: Sprayer technique, application technology	11 %	(0-25)
4.g: Advising on sprayers:	9 %	(0-20)

Q 5 a: Training material?



- | | |
|---|----|
| • Special written manual/guideline | 5 |
| • " – " plus ppt, technical info, etc | 3 |
| • Manual + protocol | 1 |
| • Regulations, standards, ppt, technical info etc | 10 |
| • Not decided | 6 |

Q 5 b: Training material available for developing common base material ?

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- Yes 9
- No 3
- No because of language 1
- Perhaps 1
- Hesitation because of language and copyrights
- Positive comments on common material

Q 6 a: Examination, type?

- Written 6
- Oral 6
- Written+oral 3
- Written+practical 2
- Oral+practical 1
- No examination 1

Q 6b. Who examines?

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- | | |
|-------------------------------|---|
| • Course arranger | 5 |
| • Authority | 5 |
| • Course arranger + authority | 4 |
| • Third party | 2 |
| • Not decided | 6 |

Q 6c: Duration of certificate?

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2 years	3
3 years	2
5 years	4
Unlimited	3
Not defined but demands: activity, fullfil regulations or refresher course	4

Q 7, 8: Qualification of examiners, trainers and auditors?

- Generally not specified but mostly:
 - University-level, long experience
 - High knowledge on sprayers technique and application technology.
- But also:
 - Qualified assessors
 - Quality responsible and Technical responsible ISO 17020 – accreditation

Q 9. Accept inspectors from other countries?

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• Yes	8
• May be language restriction	
• Yes, in principle but not the case yet	3
• No	5
• Not decided	3
• Not clear as test station is a legal entity	1
• If yes: Same requirements as in the country	

Q 10: Test report, minor defects

- Test report YES
- Minor failures (not critical failures)
 - Accept
 - Not accepted
 - Must be repaired within time limit

Q 11: Inspection sticker?

Attached on sprayer when inspection is passed with approval

- | | |
|---------------|----|
| • Yes | 18 |
| • No | 2 |
| • Not decided | 5 |

Presentations:

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- Sprayer calibration training – concept and performance
 - Greg Doruchowski
- The necessity of a harmonised procedure for sprayers inspectors training. The Italian activity.
 - Paolo Balsari
- Training of inspectors for the periodic inspection of spraying equipment in a system of authorised mechanic workshops.
 - Heribert Koch

Discussion

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- Is it possible to have one uniform base level of training?
 - Course length:
 - Basic 2 days
 - Special course: boom sprayers, mistblowers 1 day each
 - Green house sprayers 1-2 days extra
- Examination?
- Could a TWG be relevant to collect papers and develop common documents/training material?
 - Boom-sprayers, mistblowers, others....
- Who can write material?
- Fundings?

Discussion ctd

- Mutual recognition of training between:
 - No formal training and examination and
 - Accredited system
 - And systems between...

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