

**WG1 on NDT Qualification and Certification**

**Meeting of 11 June 2016 (Saturday)  
Munich, Germany**

Present:	Mr A Mullin (Chair)	Russian Society for NDT
	Mr G Aufricht	Austrian Society for NDT
	Mr G Idinger	Austrian Society for NDT
	Mr H Jansen	South African IW
	Mr Joao Rufino Teles Filho	Brazilian Society for NDT
	Mr P K Yuen	Canadian Institute of NDE
	Mr R Holstein	German Society for NDT
	Mr N Ooka	Japanese Society for NDI
	Mr A Charbonnier	Cofrend
	Mr R Rodriguez	Spanish Society for NDT
	Mr T Clausing	American Society for NDT
	Mr K Smith	American Society for NDT
	Mr S K Babu	NDT Society (Singapore)
	Mr V Radko	Ukrainian Society for NDT
	Mr P Milligan	Australian Institute for NDT
	Miss N Scutt	British Institute for NDT
	Mr K C Kim	Korean SNT
	Mr J Ji	Chinese Society for NDT
	Mr C H Gur	Turkish NDT Society
	Mr FG Sofronic	Serbian Society for NDT
	Mr M Ghaemi	Iranian Society for NDT
	Mr B Pedersen	Danish NDT Society
Observers:	Dr M Farley	Chairman ICNDT
	Mr D Gilbert	ICNDT Secretariat
	Ms S Bond	Canadian Institute of NDE
	Mr A Bereson	ASNT
	Mr D Bajula	ASNT
	Mr T Wooldridge	CEC Secretary
	Mr D Marshal	PGP Chairman CINDE
	Mr P Brisset	IAEA
	Mr S Ooka	JSNDI
	Ms S Priannikova	Ukrainian Institute of NDT
	Mr P Wadyalkar	AINDT
	Mr K Arcus	AINDT
	Mrs K Hickman	(Minute Secretary) BINDT
Apologies:	Mr P Fallouey	

**1. Welcome and Apologies**

- The Chair introduced Dr Purschke who welcomed everyone to Munich and wished them a successful week. He made his apologies for not attending this meeting.
- The Chair confirmed he is looking forward to all participants sharing their knowledge and experiences.
- Everyone introduced themselves.
- Apologies were received as detailed above.

## 2. Adoption of the Agenda

- There are 21 items to be discussed on the agenda.
- Mr Yuen asked if item 10 Code of Conduct may be better discussed after item 16. All agreed and this was changed.

## 3. Approval of the Minutes of the Meeting held on 30<sup>th</sup> October 2015 in Salt Lake City, USA

- The minutes were circulated in January.
- The minutes were approved.

## 4. Actions

Action Ref No	Description	WHO	STATUS/COMPLETED BY
WG1/2015-10-30/..			
1.	Send reminder to those requiring re-appointment to Group	AM	Complete
WG1/2015-10-30/..			
3.	Update directory of PCBs	SKB/DJG	Updated. Complete
WG1/2015-10-30/..			
4.	Re-draft section 5.0	RH	Special item 6 on agenda to discuss
WG1/2015-10-30/..			
9.	Consider comments and present final draft to IEC for approval	AM	Approved by IEC and on the website. Complete
WG1/2015-10-30/..			
10.	Consider suggestions for TR25107 vs. CP105	AM	TR25107 – Sharon will work with WG.
WG1/2015-10-30/..			
11.	Produce draft document for discussion	RH	Agenda item 7
WG1/2015-10-30/..			
12.	Coordinate revision of ICNDT Guide	JMF/RS	Completed, printed and will be available on 12 <sup>th</sup> June – Dr Farley extended his thanks.
WG1/2015-10-30/..			
13.	Coordinate collection of codes of conduct/ethics from societies and CBs	SB	On agenda as item 10 – to be discussed after item 16.
WG1/2015-10-30/..			
14.	Produce revised draft programme for workshop	JMF	Workshop to be held next Friday and will be discussed later
WG1/2015-10-30/..			
15.	Continue work on discussion paper for Roles & Responsibilities	AM	To be considered under item 8.

Action Ref No WG1/2015-10-30/..	Description	WHO	STATUS/COMPLETED BY
16.	Draft response to enquiry regarding NDT engineering training etc and check with AM	JMF	To be discussed. Add to ISO agenda.

- Dr Farley proposed this coincides with Action 17 (below) to consider how to deal with ISO 17020 and the two are related.
- Action will be added to next agenda for ISO 17020 to be discussed.

Action Ref No WG1/2016-11-06/..	Description	WHO	STATUS/COMPLETED BY
1.	Discuss ISO 17020	WG1	Next meeting.

- Competency tests have been requested by Oil and Gas industry in the UK. ICNDT are requested to review and decide on best practice.
- A workshop is requested, possibly to be held in Asia Pacific next year to request a new standard. The members supported this suggestion.
- Dr Farley asked for ideas to comment on at ISO meetings along with proposals for new work.
- NADCAP have additional requirements above qualifications.
- The Chair confirmed in Russia there is a requirement above qualifications.

Action Ref No WG1/2015-10-30/..	Description	WHO	STATUS/COMPLETED BY
17.	Add ISO 17020 to agenda of next meeting	JMF	Complete.
Action Ref No WG1/2015-10-30/..			
18.	Complete ICNDT CM Guide	PM	Complete. Discuss under Agenda item 11.

#### 5. WG1 Membership

- There are 21 members of WG1 with an additional 3 since the last meeting in Salt Lake City.
- Four meetings have been held prior to this meeting.
- A requirement of the Terms of Reference for WG1 is to serve for a period of 4 years.

#### 6. Action plan

- The Action plan had been circulated prior to the meeting for comment.
- This group confirmed WG1 is full and no further members are required.
- Regional reports have been received and will accompany the minutes.

#### Spain -

- EN16729 is basic certification whereas EN9712 includes training hours and experience for the railway sector. Work has finished on the standard which has 4 parts and there are additional requirements for railway industry.

Action Ref No WG1/2016-11-06/..	Description	WHO	STATUS/COMPLETED BY
2.	Forward a copy of the draft standard to Mr Mullin for review	RR	

**Africa –**

- 85% of the population are not certified.
- There are 2 schemes: ASNT and ISO9712.
- Local countries import expertise using foreign manpower with information not imparted to local people.
- South Africa is possibly the only area that has a large number of qualified people.
- The phased array training is based on ISO 9712, again provided by other countries and imported.

**Asia Pacific –**

- No questions raised.

**South America –**

- No questions raised

**North America/Canada -**

- As a government body accreditation is not required.
- Under ICNDT MRA to be recognised as the accreditation body you must meet the requirements of the ICNDT MRA to ensure compliance with ISO 9712.
- Care should be taken to ensure accreditation include NDT expertise.
- A recommendation was made for the Society to work closely with certification bodies.

**Mexico –**

- No questions raised.

**USA -**

- Online examinations under development.
- Learning from experiences of others who have created online examinations.
- Security is paramount and photographs will be taken of the individual along with using video monitoring inside the facility. No cell phones or calculators will be allowed.
- Examination centres will run efficiently where anyone worldwide can login, but to become an examination centre they will have to satisfy requirements.
- Examinations will have to be taken in an examination centre.
- Practical examinations will be held at ACCP centres, unless it becomes an issue whereby they will create a practical area at the examination centre.
- CP106 was formally approved last year and since that time ASNT have adopted ISO 9712 but in the interim they are calling it CP9712.
- A timeline will be introduced on implementation.
- They will hold a greater number of questions than the minimum requirement and will meet or exceed 9712.
- ASNT aims to have a very robust programme.

- **Civil engineering –**

- Some areas are covered
- Some new methods have been introduced by ASNT but they are not regulated.
- CP106 do not cover this area but new methods should meet ISO9712 requirements.
- This will be added to the Strategic Plan.
- Mr Aufricht and Mr Holstein will take over as liaison for IAEA.
- Mr Yuen confirmed visual inspections should be undertaken, along with assessment on time and techniques.

Action Ref No	Description	WHO	STATUS/COMPLETED BY
WG1/2016-11-06/..			
3	New methods should meet ISO 9712	AM	

## 6. Recommendation for Administering Practical Examination

- Mr Babu is looking for approval from WG1.
- A presentation was made (appended).
- The size of the specimen has been revised.
- The linear length for tubes can be reduced.
- Visual testing been reduced.
- The minimum number of specimens has been expanded for Ultrasonic Inspections.
- Critical welds have been specified in the document.
- The number of specimens were discussed as the certification bodies require numerous specimens.
- Visual testing defects should be invisible.
- The certification body should have mandatory grading requirements.
- Mr Babu was congratulated on this work and the report will go to IEC for approval.
- It should be considered whether this report should be added to the website, approved and sent to SC7.

## 7. Substitution renewal by recertification

- Questions were raised as to whether we should substitute the renewal.
- The database is updated but there is no check on skills – face to face surveillance is required.
- The presentation will accompany the notes.
- A 5 year recertification course will be introduced.
- Certification should be undertaken independently by each country depending on their standard requirements.
- In Germany approximately 2,000 people a year are recertified.

## 8. Roles and responsibilities of the Certification body, Authorised qualification body and Examination centre in certification process

- ASNT are expecting to keep both standards.
- PCN have introduced a point system for Level 2, and an annual surveillance is also required.
- As a competent Level 3 they are responsible for Level 2 and Level 1 people working under them. If they cannot undertake the tasks of the Level 2 or 1 person then they should not be in the position.
- The first 10 year recertification period has yet to be reached and it was decided in PCN that we could not wait for people to fail which resulted in the 5 year refresher training.
- Miss Scutt advised they have to have completed a competency test every year over a 5 year period.
- Dr Farley suggests should develop ideas and try to work towards recommendations from ICNDT, to take into account the point systems and the Level 3.
- It was proposed that a Sub Committee be organised to discuss this further – Ralf Holstein to Chair, Nicole Scutt, Peter Milligan, Rodolfo Rodriguez, Harold Jansen, Gerald Idinger, PK Yuen, Norikazu Ooka, Vitaly Radko, David Bajula and Andre Charbonnier.

Action Ref No	Description	WHO	STATUS/COMPLETED BY
WG1/2016-11-06/..			
4	Create a sub committee group to discuss further	RH	

- Everyone agreed this is an important issue and work will continue to improve the draft. The sub committee will report back in to WG1.

#### 9. ICNDT Guide

- The guide has been drafted by many people with Robin Shipp acting as editor, and was approved by the editorial committee from around the world.
- It has been printed and is available from the ICNDT stand during the conference (also now available on website).
- The next update should coincide with the Asia Pacific Conference 2017.
- Next update of guide should include updated information and could include regional detail.

Action Ref No WG1/2016-11-06/..	Description	WHO	STATUS/COMPLETED BY
5	Next update of ICNDT Guide	AM	Discuss next meeting

#### 10. National Code of ethics

- A draft Code of Ethics had been produced based on the PCN one and this included additional items included in other Codes. Comments were invited. The work would continue.

#### 11. Workshop on qualification and certification during WCNDT

- Mr Mullin presented the programme for Friday's workshop.

#### 12. Condition monitoring. Certification of personnel

- Mr Milligan advised a Guide to Qualification and Certification of CM personnel is about to be released for publication and copies would be available during the conference. The guide has been circulated to this group for comment (now on website).
- Vibration is a Cat 4 examination. There is no practical requirement although you have to be able to demonstrate practical ability. It is a theory-based examination.

#### 13. ISO/IEC 17020. Management of NDT

- Dr Farley presented a couple of slides (appended) and proposed an ICNDT workshop possibly alongside the Asia Pacific Conference in 2017. Work in progress.

#### 14. Update on CP-106

- CP106 was approved last year.
- ASNT board agreed to take steps towards adoption
- ASNT are expecting to keep both standards.

#### 15. Possible revision of ISO 9712:2012

- Mrs Bond made the presentation and had contacted WG1 and SC7 to ask for comments.
- The feedback received did not support an early revision.
- ISO 9712 is up for systematic review in 2017.
- A group will be established within ISO to consider the magnetic memory method.

#### 16. Report on work of ICEC

- Mr Wooldridge presented the report (appended).

#### 19. AOB

- A presentation was made by Mr Yuen that will accompany these minutes. Additional discussion is required on risk analysis of controls and procedures.

Action Ref No WG1/2016-11-06/..	Description	WHO	STATUS/COMPLETED BY
	Add Risks and Opportunities	AM	

- Mr Milligan presented a letter from the Australian Institute for NDT (AINDT) requesting WG1 to confirm how other member certification bodies interpret the requirements for industrial experience (copy appended). Several said they would like a structured way to move forward and a proposal should be formulated. The Chair proposed that the WG1 should consider the matter further.

Action Ref No WG1/2016-11-06/..	Description	WHO	STATUS/COMPLETED BY
	Consider interpretation of requirements for work experience.	AM/WG1	

- Mr Milligan presented a letter from the Australian Institute for NDT (AINDT) raising the issue of overseas Certification Bodies (both managed by a signatory members of the ICNDT MRA and non-signatory members of ICNDT) operating within a Country which already has an established and accredited Certification schemes that is designed by its national industry to meet national requirements. A copy of the letter is appended. Some discussion followed. Mr Milligan suggested revisiting the matrix which is on the website. This is a spreadsheet that explains how the certification body meets the standards.

The spreadsheet shows how the certification bodies compare.

It was agreed that Mr Milligan and Ms Scutt would work together on this task.

Sweden, Canada and Singapore will work with Miss Scutt and Mr Milligan.

Action Ref No WG1/2016-11-06/..	Description	WHO	STATUS/COMPLETED BY
	Update spreadsheet on PCBs and how they meet standards, esp. 9712.	PM/NS	

## 21. Date and place of next meeting

- November 2017, Singapore, in conjunction with 15th APCNDT (November 13-17, 2017).