



INTERNATIONAL COMMITTEE FOR  
NON DESTRUCTIVE TESTING

*The World Organisation for NDT*

**Minutes of a meeting of  
ICNDT Working Group 1: Qualification and Certification**

**Friday, 30 October 2015**

**Salt Lake City, Utah, USA (alongside ASNT Fall Conference 2015)**

**Participants - Members**

Alexander Mullin	(Chair)
Terry Clausing	
Ralf Holstein	
Gerald Idinger	(Proxy Gerhard Aufricht)
Harold Jansen	
Kyung-Cho Kim	
Peter Milligan	(Proxy Nicole Scutt)
Norikazu Ooka	
Vitali Radko	
Rodolfo Rodríguez	
João Rufino Teles Filho	

**Observers**

Mike Farley	(ICNDT Chairman)
David Bajula	(ASNT)
Sharon Bond	(Canada)
Terry Clausing	(ASNT)
Mirmajid Ghaemi	(IRNDT)
David Gilbert	(ICNDT Secretariat)
Shohei Ooka	(JSNDI)
Svitlana Priannikova	(Ukraine)

**Apologies**

Gerhard Aufricht	(Member)
Sajeesh Kumar Babu	(Member)
Patrick Brisset	(IAEA)
Patrick Fallouey	(Member)
Cemil Hakan Gur	(Member)
Jingyuan Ji	(Member)
Matthias Purschke	(Member)
Nicole Scutt	(Member)
Robin Shipp	(ICEC Secretary)
Goran Sofroniç	(Member)
John Zirnhelt	(Member)

## 1. Welcome and apologies

The Chairman opened the meeting and welcomed all members and observers. He thanked ASNT for hosting the meeting.

Introductions were given around the table.

The Chairman declared that a quorum was achieved.

## 2. Approval of Agenda

The Chairman stated that the Agenda had been circulated prior to the meeting. Some suggestions for addition had been received from the members. He invited further suggestions. None were received. The Agenda was approved.

## 3. Approval of Minutes of the previous meeting

The minutes of the meeting held on 6 October 2014 in Prague, Czech Republic, had been circulated.

The minutes were approved.

Actions arising:

Action Ref. No.	Desc.	WHO	STATUS/COMPLETE BY
WG1/2014-10-06/..			
1	Request report from JZ on IAF liaison	AM	S Bond reported that JZ would be retiring. Plan of action to be covered in Agenda (Action Plan).
2	Offer SKB as member of ISO/CASCO WG30	AM/SKB	Ref. Babu email: WG30's work is complete, hence disbanded. Any further business will be conducted outside WG. Action complete.
3	Propose suitable nominees to maintain liaison status with ASME	PF, RE	Plan of action to be covered in Agenda (Action Plan).
4	Investigate facility for online updating of directory.	DJG	Plan of action to be covered in Agenda (Action Plan).
5	Send comments/suggestion on the Action Plan by the end of October	All members	Complete. Ref. Agenda.
6	Prepare WG1 report on interpretation of ISO 9712:2012	AM	Complete. Ref. Agenda.
7	Submit final comments on guidelines for administering practical exams to SKB by end-March 2014	All	Complete. Ref. Agenda.
8	Add grading procedure proposal to 9712 review document	VR	Complete. Ref. Agenda.

Action Ref. No. WG1/2014-10-06/..	Desc.	WHO	STATUS/COMPLETE BY
9	Collect information from CB's on grading of practical exams	SKB	Complete. Ref. Agenda.
10	Modify action plan to accommodate process for qualification and certification of personnel when 'introducing new NDT methods and techniques'	AM	Complete. Ref. Agenda.
11	Propose the suggested membership strategy for ASNT	AM	Complete.

#### 4. WG1 membership

The Chairman tabled the list of members (appended). He also reiterated the terms of reference:

*All WG1 members are appointed for a period of four years and are eligible for re-appointment. In case of re-appointment ICNDT Member shall confirm support of its nominee.*

Those highlighted in the list are due for re-appointment in April 2016, however it was agreed that this could be deferred to the meeting at the WCNDT in June. The Chairman would issue a reminder.

Action Ref. No. WG1/2015-10-30/..	Desc.	WHO	STATUS/COMPLETE BY
1	Send reminder to those requiring re-appointment to Group	AM	Prior to 4-year anniversary of appointment (April 2016).

Ms Bond mentioned that the Canadian Institute of NDE would advise that, due to his retirement, Mr John Zirnhelt would be replaced by Mr Pui Kei Yuen.

The Chairman reported that he had requests from the Danish Society and also from the Iranian Society to nominate representatives to WG1. These would be handled in the usual way.

##### 4.1 Terms of Reference

With regard to the proposed additional note to be added to the ToR:

*Note 1. Membership of the ASNT President and incoming ASNT President should be automatic so that continuity will be maintained.*

Ms Bond proposed that the statement should be independent of a specific society. Mr Bereson explained ASNT's proposal, which was to appoint a representative for a 4-year period (currently this would be Mr Clausing), with himself acting as alternate if required. The current ToR covers this:

*In the event that a WG1 member is unable to attend a meeting, he or she may propose to the WG1 chairman a substitute with the above qualities for that particular meeting. As an option attending the meeting via teleconferencing is permitted.*

## 5. Action Plan

Dr Farley introduced the topic. The Working Group has the power to alter the Action Plan. If additions are made that require additional resources, then application should be made to the IEC for approval.

The Chairman proceeded to go through the Action Plan step-by-step.

Referring to the Action Plan:

X1 (Review of action plan) is an ongoing task without deadlines.

X2 (Review Terms of Reference): covered by item (4) above.

X3 (Reviewing and refresh membership): covered by item (4) above.

Mr Clausing also added that ASNT now has responsibility for providing representatives for all committees on ISO TC135. A new committee has been established ('TAG Committee') comprising all representatives. Previously, the Standards Development Committee (SDC) had been responsible for SC7.

Mr D Vigne is Chairman of the TAG Committee and Mr Bajula is Vice Chairman.

Mr McDaniel is Chairman of the SDC.

It was agreed that Mr Vigne and Mr McDaniel would be invited to attend WG1 as observers.

Action Ref. No.	Desc.	WHO	STATUS/COMPLETE BY
WG1/2015-10-30/..			
2	Invite Mr Vigne and Mr McDaniel to join WG1 as observers	AM/JMF	Prior to next meeting.

### A1. Lines of communication with regional Groupings

Reports were received from the Regional Groups/Federations and presented during the meeting by Harold Jansen (Africa), N Ooka and P Milligan (Asia Pacific), Sharon Bond and João Rufino Teles Filho (Pan America), R Rodriguez (EFNDT). It was agreed that S Bond would replace J Zirnhelt as Pan America rep for the next meeting.

### A2. Liaison:

a) ISO TC135 SC7 (Revision of training guidelines). Ref. Agenda item.

b) IAF. S K Babu to take over from John Zirnhelt.

- c) ISO/CASCO now disbanded (as stated above).
- d) ASME and similar bodies on NDT personnel qualification matters. Patrick Fallouey is retiring from ASME. T Clausing offered to take over as contact person. All agreed.
- e) IAEA. Dr Farley had attended a meeting and reported that IAEA are still looking for projects, had a growing interest in NDT and regarded sustainability as increasingly important.

A4. Directory: The directory of PCBs is now on the website and is referenced in the new edition of the ICNDT Guide. SKB to ensure that it is updated.

<b>Action Ref. No.</b>	<b>Desc.</b>	<b>WHO</b>	<b>STATUS/COMPLETE BY</b>
<b>WG1/2015-10-30/..</b>			
3	Update directory of PCBs	SKB/DJG	ASAP.

A5. Guidance for developing countries: P Milligan reported that AINDT is providing support for certification scheme at NDTSS.

A6. Forums and Workshops: Arrangements for Munich to be discussed later.

A7. Website: On-going development – D Gilbert/A Mullin. WG1 members were reminded that they are responsible for forwarding matters of interest through WG1 chairman to David Gilbert.

A8. Application of EN ISO 9712: Complete.

A9. Gap analysis: Awaiting results.

A10. ASNT: Ongoing. Mr Clausing offered to make a presentation on ANDE in Q&C Workshop at WCNDT.

B1. New methods: Ref Agenda.

B2. ICNDT Guide: Ref Agenda.

B3. Practical exams: Ref Agenda.

B4. EQB: Ref Agenda.

B5. Standards: Complete. Mr Mullin had created and updated.

B6. OPs19/20: Ref Agenda.

B7. Renewal by certification: Ref Agenda.

B8. Clarification of responsibilities: Ref Agenda.

The updated Action Plan was approved.

## 6. Recommendation for implementation of ISO 9712:2012

The WG1 Report on interpretation of ISO 9712:2012 was unanimously approved by the ICNDT Executive Committee and is now available on the ICNDT website (WG1 - Public documents).

## 7. Guideline for administering practical examinations

The latest version of this document had been circulated before the meeting, taking account of comments received to date. Mr Babu was thanked for his good work. Mr Radko had a number of points to make and the Group went through them.

- remove 'EN' from sections 1.0 and 3.0
- proposal to include composites in product sectors in 4.0
- check minimum no. of specimens
- proposal to remove clause ref Table
- Section 5.0: spec should be appropriate for method and inspection task (R Holstein to re-draft - see action below)
- Section 6.0: 'shall'?
- Section 8.0: 'that should be held'?
- Appendix A Tables: +/- or ≥? Add 'Indication'? Put as percentage? (Ask CBs what is national practice? - see action below)
- proposal to separate all methods
- add Table 3? How to agree reduction of marks - see action below
- re-draft last paragraph?

Action Ref. No. WG1/2015-10-30/..	Desc.	WHO	STATUS/COMPLETE BY
4	Re-draft section 5.0	RH	end-Jan 16
5	Ask CBs about national practice concerning Table 1B	SKB	end-Jan 16
6	Consider adding 3rd Table on reduction of marks	AM	end-Jan 16
7	All comments to be submitted by end Jan 2016	ALL	end-Jan 16
8	Once all comments received and considered, final draft to be edited for language and grammar	DJG	Feb 2016

**8. Process for qualification and certification of personnel when ‘introducing new NDT methods and techniques’**

Mr Mullin explained the background and presented the draft document: "Report of WG1 on Recommendation on Conformity Assessment of PCB conducting qualification and certification of personnel when ‘introducing new NDT methods and techniques’". He stated that the objective should be not to have to study the techniques itself in technical detail but assess the procedures of the CBs in the certification of personnel.

Some discussion took place and the following suggestions made:

- delete the terms 'regional and national' from the 3rd para
- add a statement to the effect: '...[this] does not mean international acceptance of the technique, necessarily'
- add a statement to the effect: '... trustworthy evidence of the effectiveness of the method is needed'.

It was agreed that the document should be presented to the IEC and if approved should be converted to an Operating Procedure via the normal route.

<b>Action Ref. No.</b>	<b>Desc.</b>	<b>WHO</b>	<b>STATUS/COMPLETE BY</b>
WG1/2015-10-30/..			
9	Consider comments and present final draft to IEC for approval	AM	ASAP.

**9. Revision of TR 25107 Guidelines for NDT training syllabuses**

Sharon Bond reported progress. Work on TR25107 and 25108 had begun in 2012, with expert task groups assigned to each. Some changes had been proposed. It was hoped that final revised documents should be ready for WCNDT in June 2016.

With regard to American procedures there had been a proposal to carry out a gap analysis on TR25107 and CP105 with the objective of producing a document to show how training can cover both syllabuses.

It was suggested that a work item could be added to the ICNDT WG1 Action Plan to do or contribute to this work.

<b>Action Ref. No.</b>	<b>Desc.</b>	<b>WHO</b>	<b>STATUS/COMPLETE BY</b>
WG1/2015-10-30/..			
10	Consider suggestion re: TR25107 vs. CP105	AM	ASAP.

## 10. Renewal by recertification

The Chairman presented the results of a survey. The majority of respondents (10 out of 12) believed that renewal could be considered as a surveillance process. Five thought that the current period of certification (10 years) is too long (6 - not too long). Only two thought that renewal should be deleted and recertification only applied (7 - No). An equal number were for and against defining a new period of certification (5/5), and seven out of ten believed that surveillance should be applied in a certification scheme.

Mr Holstein suggested that the correct procedure should be defined (best practice) and then a decision should be made on how to implement it. A future revision of ISO 9712 should consider the anomalies. Things to be considered include testing of Level 3s, visual acuity questions and the recertification process. A simplified practical examination could be a solution.

Mr Holstein agreed to produce a draft document for further discussion.

Action Ref. No. WG1/2015-10-30/..	Desc.	WHO	STATUS/COMPLETE BY
11	Produce draft document for discussion	RH	Next meeting.

## 11. OP20

A revised version (Draft 'B') had been circulated and comments received and considered. A further request for comments was issued, for submission by 15 November 2015. A final version would then be produced and issued to ICEC, then IEC, PGP and finally the General Assembly.

**AFTERNOTE:** Issue 2 Draft D has now been issued to the General Assembly for approval by 18 December 2015.

## 12. ICNDT Guide

Dr Farley explained the current status of the proposed revision process. He had made some changes and produced a draft which indicated his suggestions for who could do the review and revision of each section.

Dr Farley will ask Dr Shipp to coordinate the revision process. It is hoped to complete the first round of revisions by 8 Jan 2016.

Action Ref. No. WG1/2015-10-30/..	Desc.	WHO	STATUS/COMPLETE BY
12	Coordinate revision of ICNDT Guide	JMF/RS	ASAP.



### 13. Code of Ethics

Sharon Bond presented the background. Although every Certification Body and National Society has a Code of Ethics, how does this fit in with the Multilateral Recognition Agreement? Should there be a uniform International Code of Conduct? It was agreed that some research was required before any decisions are made. Ms Bond was asked to coordinate the collection of codes available from societies and CBs.

Action Ref. No. WG1/2015-10-30/..	Desc.	WHO	STATUS/COMPLETE BY
13	Coordinate collection of codes of conduct/ethics from societies and CBs	SB	Next meeting.

### 14. WCNDT Q&C Workshop 2016

Dr Farley presented a draft programme and invited comments. Some suggestions were made. A revised preliminary programme will be produced and circulated for further comment.

Action Ref. No. WG1/2015-10-30/..	Desc.	WHO	STATUS/COMPLETE BY
14	Produce revised draft programme for Workshop	JMF	ASAP.

### 15. Roles and responsibilities of CBs, AQB and Examination Centres

Mr Mullin had produced a draft document for discussion. The aim was to define and detail functions and responsibilities of all parties (chains CB – AQB – ECs and CB - ECs) involved in the certification process if they are separate legal entities. Dr Farley suggested that Ms Scutt at PCN could be invited to participate.

Action Ref. No. WG1/2015-10-30/..	Desc.	WHO	STATUS/COMPLETE BY
15	Continue work on discussion paper for Roles & Responsibilities	AM	Next meeting.

## 16. ASNT report

Mr Clausing reported on ASNT activities in the filed of certification. ASNT had produced a new Strategic Plan and this described the mission, goals and strategies. ASNT was developing 'an identical adoption' of an ISO 9712 scheme. The objective was to present a formal document to ANSI by the 2016 Spring Conference (April 2016). The infrastructure for this will be put in place. ASNT is working with other cooperative international societies in this area and it will be extending this to other sister organisations in the USA. The intention is to create a new scheme that is fully compliant and without the use of Guide 21.

Reference was also made to ASNT/USA representation on ISO and other committees, as reported above.

## 17. Report on the work of the ICEC

Mr Jansen presented Dr Shipp's report on the work of the ICEC (appended).

## 18. Any other business

### 18.1 NDT Engineering Guidelines

An enquiry had been received concerning the training, qualification and certification of non-destructive testing engineers. Some guidelines had been requested. There was some discussion and questions arose as to the market for such a guide and also the definition of what exactly is meant by 'NDT Engineer'.

Dr Farley would draft a response explaining the situation, which he would check with the Chairman prior to sending.

Action Ref. No.	Desc.	WHO	STATUS/COMPLETE BY
WG1/2015-10-30/..			
16	Draft response to enquiry regarding NDT engineering training etc and check with AM	JMF	ASAP.

### 18.2 ISO 17020: Accreditation of Inspection Bodies

WG1 was asked to investigate how NDT is managed in this sector where services are provided to industry. It was agreed to make this an agenda item at the next meeting.

Action Ref. No.	Desc.	WHO	STATUS/COMPLETE BY
WG1/2015-10-30/..			
17	Add ISO 17020 to agenda of next meeting	JMF	Next meeting.

## 18.2 Condition Monitoring Guide

Mr Milligan reported that a first draft had almost been completed and would be sent to Mr Clausen when ready. It was intended to channel this through Working Group 6 but members of WG1 would also be given the chance to comment on it. It was hoped to have the Guide ready for WCNDT in Munich.

<b>Action Ref. No.</b>	<b>Desc.</b>	<b>WHO</b>	<b>STATUS/COMPLETE BY</b>
<b>WG1/2015-10-30/..</b>			
18	Complete ICNDT CM Guide	PM	Final document for WCNDT 2016.

## **19. Date and place of next meeting**

The next physical meeting of WG1 will take place on Saturday, 11 June 2016 in Munich, Germany, prior to the start of the World Conference, commencing at 13h00 local time.