

American National Standard
ASNT Standard for Qualification and
Certification of Nondestructive Testing Personnel

The American Society for Nondestructive Testing, Inc.

Approved December 20, 2006

American National Standards Institute

Abstract

This standard applies to personnel whose specific tasks or jobs require appropriate knowledge of the technical principles underlying nondestructive testing (NDT) methods for which they have responsibilities within the scope of their employment. These specific tasks or jobs include, but are not limited to, performing, specifying, reviewing, monitoring, supervising, and evaluating NDT work.

To the extent applicable to the standard set forth herein, The American Society for Nondestructive Testing, Inc. (ASNT) does not assume the validity or invalidity, enforceability or unenforceability of patent rights, registered trademarks or copyrights in connection with any item referred to in this standard, study materials, or examinations. Users of this standard, study materials, or examinations are further cautioned and expressly advised that determination of the validity or enforceability of any such patent rights, trademarks, or copyrights, and the risk of the infringement of such rights through misuse of protected materials are the responsibility of the user. Reference to or pictorial depiction of specific types of products or equipment are for purposes of illustration only and do not represent the endorsement of such products or equipment by ASNT.

Employers or other persons utilizing nondestructive testing services are cautioned that they retain full responsibility for ultimate determination of the qualifications of NDT personnel and for the certification process. The process of personnel qualification and certification as detailed in the standard does not relieve the employer of the ultimate legal responsibility to ensure that the NDT personnel are fully qualified for the tasks being undertaken. This standard is subject to revision or withdrawal at any time by ASNT.

American National Standard

Approval of an American National Standard requires verification by ANSI that the requirements for due process, consensus, and other criteria for approval have been met by the standards developer.

Consensus is established when, in the judgment of the ANSI Board of Standards Review, substantial agreement has been reached by directly and materially affected interests. Substantial agreement means much more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that a concerted effort be made toward their resolution.

The use of American National Standards is completely voluntary; their existence does not in any respect preclude anyone, whether they have approved the standards or not, from manufacturing, marketing, purchasing or using products, processes, or products not conforming to the standards.

The American National Standards Institute does not develop standards and will in no circumstances give an interpretation of any American National Standard. Moreover, no person shall have the right or authority to issue an interpretation of an American National Standard in the name of the American National Standards Institute.

CAUTION NOTICE: This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken periodically to reaffirm, revise, or withdraw this standard. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute.

Published by
The American Society for Nondestructive Testing, Inc.
1711 Arlingate Lane
PO Box 28518
Columbus, OH 43228-0518

No part of this book may be reproduced or transmitted in any form, by means electronic or mechanical including photocopying, recording, or otherwise, without the expressed prior written permission of the publisher.

Copyright © 2007 by The American Society for Nondestructive Testing, Inc. ASNT is not responsible for the authenticity or accuracy of information herein. Products or services that are advertised or mentioned do not carry the endorsement or recommendation of ASNT.

IRRSP, *NDT Handbook*, *The NDT Technician* and www.asnt.org are trademarks of The American Society for Nondestructive Testing, Inc. ACCP, ASNT, *Level III Study Guide*, *Materials Evaluation*, *Nondestructive Testing Handbook*, *Research in Nondestructive Evaluation* and *RNDE* and are registered trademarks of The American Society for Nondestructive Testing, Inc.

ASNT exists to create a safer world by promoting the profession and technologies of nondestructive testing.

ISBN-13: 978-1-57117-142-9

02/07 first printing

Foreword

(Not a part of American National Standard CP-189-2006.)

An essential element in the effectiveness of nondestructive testing (NDT) is the qualification of the personnel who are responsible for and who perform nondestructive testing. Formal training and actual experience are important and necessary elements in acquiring the skills necessary to effectively perform nondestructive tests.

The American Society for Nondestructive Testing, Inc. (ASNT) has, therefore, undertaken the preparation and publication of this standard which specifies the procedures, essential factors, and minimum requirements for qualifying and certifying NDT personnel.

The *ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel* (Document No. ASNT-CP-189) was initially processed and approved for submittal to the American National Standards Institute (ANSI) by the ASNT Standards Writing Committee. This revision was processed by the ASNT Standards Development Committee. Committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the Standards Development Committee had the following members:

Michael E. McDaniel, Chair
Ronald T. Nisbet, Vice-Chair
Brian O'Connell, Secretary
George C. Belev
Stephen P. Black
Paul E. Deeds, Jr.
Frank DeSande
Todd S. Fleckenstein
Darrell W. Harris
Victor Hernandez
Richard McGuire
William C. Plumstead, Sr.
Michael J. Ruddy
Bruce D. Schlueter
Marvin W. Trimm
Michael L. Turnbow
William Veal

Approved by the Standards Development Committee August 5, 2006.

Appendices C and D are not part of this American National Standard.

THIS PAGE INTENTIONALLY
LEFT BLANK

CONTENTS

American National Standard ii
Forward iii
ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel 1
1.0 Scope 1
2.0 Definitions 1
3.0 Levels of Qualification 2
4.0 Qualification Requirements 3
5.0 Qualification and Certification 4
6.0 Examinations 4
7.0 Expiration, Suspension, Revocation, and Reinstatement of Employer Certification 7
8.0 Employer Recertification 8
9.0 Records 8
10.0 Referenced Publications 9
Table 1: Minimum Number of Examination Questions 11
Appendix A: Initial Training and Experience Requirements for Level I and Level II 12
Appendix B: Initial Training and Experience Requirements for Limited Certifications 13
Appendix C: Sample Certification Form (Not a part of American National Standard *ANSI/ASNT CP-189*) 14
Appendix D: Interpretation Policy (Not a part of American National Standard *ANSI/ASNT CP-189*) 15
CP-189 INQUIRY FORM (Not a part of American National Standard *ANSI/ASNT CP-189*) 16

THIS PAGE INTENTIONALLY
LEFT BLANK

ASNT Standard for
Qualification and
Certification of
Nondestructive Testing
Personnel

1.0 Scope

- 1.1 This standard establishes the minimum requirements for the qualification and certification of nondestructive testing (NDT) and Predictive Maintenance (PdM) personnel.
- 1.2 This standard details the minimum training, education, and experience requirements for NDT personnel and provides criteria for documenting qualifications and certification.
- 1.3 This standard requires the employer to establish a procedure for the certification of NDT personnel.
- 1.4 This standard requires that the employer incorporate any unique or additional requirements in the certification procedure.

2.0 Definitions

- 2.1 **Purpose.** These definitions are intended to clarify the meanings of terms used in this standard, as they apply to this standard, and only to this standard. No broader application of these definitions is implied. For specific definitions related to NDT see 10.2.
 - 2.1.1 **Certification.** Written testimony that an individual has met the applicable requirements of this standard.
 - 2.1.2 **Certifying Authority.** The person or persons properly designated in the certification procedure to sign certifications on behalf of the employer.
 - 2.1.3 **Closed-book Examination.** An examination administered without access to reference material except that supplied with or in the examination.
 - 2.1.4 **Documented.** The condition of being in written form.

- 2.1.5 **Education.** An institutionalized program, prescribed by appropriate authorities, that is offered by schools, institutes, organizations, colleges, or universities established for the sole purpose of providing instruction in an orderly, planned, and systematic fashion.
- 2.1.6 **Employer.** The corporate, private, or public entity that employs personnel for wages or salary.
- 2.1.7 **Examination.** A formal, controlled, documented test of knowledge or skills conducted in accordance with a procedure.
- 2.1.8 **Experience.** Actual performance of an NDT method conducted in the work environment resulting in the acquisition of knowledge and skill. This does not include formal classroom training, but may include laboratory and on-the-job training as defined by the employer's certification procedure.
- 2.1.9 **Formal Training.** An organized and documented program of activities designed to impart the knowledge and skills required to be qualified to this standard. Formal training may be a mix of classroom, practical and programmed self-instruction as approved by the responsible NDT Level III.
- 2.1.10 **General Examination.** A written examination addressing the basic principles of the applicable NDT method.
- 2.1.11 **Method.** One of the disciplines of NDT; for example, ultrasonic testing, within which various test techniques may exist.
- 2.1.12 **NDT Instructor.** An individual qualified and designated in accordance with this standard to train or educate NDT personnel. (See also Section 3.)
- 2.1.13 **Outside Organization.** An agency or individual who provides NDT Level III services. See also 4.5.