



ASNT Recommended Practice No. SNT-TC-1A (2024)

Errata — first printing 04/24

The following text corrections pertain to the 2024 edition of Recommended Practice No. SNT-TC-1A.

Subsequent printings of the document will incorporate the corrections into the published text.

The attached corrected pages apply to the first printing 04/24. In order to verify the print run of your book, refer to the copyright page. Ebooks are updated as corrections are found.

Page Correction

- iv Insert Jim MacMillan as a member of the SNT-TC-1A Subcommittee.
- vi In item 8, reference to paragraph 10.2.1 should be inserted:
 - 8. Paragraph 8.1.4 was modified and paragraphs 8.6.4.2, ~~and 8.6.4.3,~~ and 10.2.1 were added to recommend an NDT Level II practical examination for NDT Level II personnel who are actually performing NDT as part of their job function.
- Item 14 should be changed to read:
 - 14. In paragraphs 8.3.4, 8.4.4, 8.5.6, 8.6.3.2, ~~8.6.4.2~~ 8.6.4.3, and 8.6.5, the new ASNT 9712 Program was added. ACCP remains in for now because there is a five-year transition in place.
- 7 Paragraph numbers were changed in the first and last sentences of paragraph 8.1.2:
 - 8.1.2 An NDT Level III should be responsible for the administration and grading of examinations specified in paragraphs 8.3 through 8.8 ~~8.7~~ for NDT Level I, II, or other Level III personnel. The administration and grading of examinations may be delegated to a qualified representative of the NDT Level III and documented. Training should be provided to the individual administering the examinations. This training and qualification shall be documented. A qualified representative of the employer may perform the actual administration and grading of NDT Level III examinations specified in paragraph 8.7 ~~8.6~~.

In 8.1.2.1 the last sentence is changed to read:

The NDT Level III practical examination specified in paragraph 8.6.4.1 shall be administered by a person certified in the applicable method as NDT Level III.

11 Delete paragraph 8.6.3.2:

~~8.6.3.2 A valid ACCP or ASNT 9712 Level III certificate may be accepted as fulfilling the Specific examination criteria for each applicable method if the NDT Level III has determined that the ASNT examinations meet the requirements of the employer's written practice. This acceptance should be documented. If this assessment cannot be accomplished, an employer-administered Specific examination should be completed.~~

Insert the second sentence in paragraph 8.6.4.2:

8.6.4.2 If the NDT Level III will be required to perform NDT or evaluate NDT results, the practical examination should include the same demonstrations of the candidate's ability to perform the required activity(ies) as required in paragraph 8.5.5. This practical examination shall be administered by a person certified in the applicable NDT method as NDT Level III. For NDT Level III personnel certified under the employer's current written practice, this requirement should be met prior to the next recertification date, in the applicable method.

SNT-TC-1A COMMITTEE

Publication and review of this Recommended Practice was under the direction of the SNT-TC-1A Committee which is a committee of the Standards Council (StC). The StC reports to the Board of Directors of The American Society for Nondestructive Testing.

Subcommittee Members:

Michael Ruddy, Chair	Dave Culbertson	Brian Laite	John Pariseau
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Notice to users of this document:

When certificates or wallet cards are issued and provided by the employer, the requirements of ASNT Policy G-14 ([asnt.org/MajorSiteSections/About/Leadership_Governance/Policies](https://www.asnt.org/MajorSiteSections/About/Leadership_Governance/Policies)) shall be followed to ensure appropriate usage of the ASNT name, acronym, and logo.

The certificate shall indicate that the certification is in accordance with the requirements of the employer’s written practice.

See Section 9.5 for further guidance on properly issued certification certificates and wallet cards.

SUMMARY OF CHANGES

The changes made are also indicated with a line in the margin for easy identification.

SNT-TC1A 2024 Edition

1. Paragraph 1.5 was deleted.
2. Paragraphs 2.1.7 and 2.1.11—revision to terms, “Detection Rate” and “False Call” to clarify their intended use.
3. Paragraphs 2.1.15 and 2.1.18—the revision to paragraph 2.1.18 was to further clarify the term “Predictive Maintenance.” Additionally, to show contrast to the term “NDT,” the definition for “Nondestructive Testing” from ASTM E1316 was included as well (new paragraph 2.1.15).
4. The text within parentheses in paragraph 2.1.21 was revised to read “(This is usually done prior to performing any NDT but can be carried out anytime there is concern about the performance of NDT or instrument response.)”
5. In Table 6.3.1B, digital radiography (DR), computed radiography (CR), and computed tomography (CT) image interpreter recommendations were added.
6. Paragraph 6.4 was added to recognize a percentage of actual hands-on experience in the form of lab hours may be applied toward the applicable experience recommendations in Tables 6.3.1A and 6.3.1B. This recommendation is only applicable to expanded training programs at education institutions or colleges.
7. In paragraph 8.1.2, a recommendation was added to ensure personnel administering written multiple-choice examinations are trained and the training is documented.
8. Paragraph 8.1.4 was modified and paragraphs 8.6.4.2, 8.6.4.3, and 10.2.1 were added to recommend an NDT Level II practical examination for NDT Level II personnel who are actually performing NDT as part of their job function.
9. In paragraph 8.1.7, a recommendation was added to document acceptance of an outside supplier for examination services.
10. In paragraphs 8.2.1 and 8.2.1.1, restrictions were added regarding the use of eye drops to temporarily improve vision. This issue and other vision-related topics are under review by a Technical Advisory Group (TAG) Committee, so more changes are expected at a later date, including more on eye drops.
11. Paragraphs 8.3 and 8.4 added reference to CP-105 for General and Specific examinations.
12. In paragraphs 8.3.2 and 8.4.1, reference to CP-105 for General and Specific examinations was added.
13. In Table 8.3.3, digital radiography (DR), computed radiography (CR), and computed tomography (CT) image interpreter number of examination question recommendations were added.
14. In paragraphs 8.3.4, 8.4.4, 8.5.6, 8.6.3.2, 8.6.4.3, and 8.6.5, the new ASNT 9712 Program was added. ACCP remains in for now because there is a five-year transition in place.
15. Paragraphs 8.3.4, 8.4.4, 8.5.6, 8.6.3.2, and 8.6.4.3 were part of a reorganization of Section 8 based on audits from the Employer-Based Certification Program.
16. Paragraphs 8.5.4.1, 8.5.4.2, 8.5.4.3, 8.5.5.1, 8.5.5.2, 8.5.5.3, 8.5.7, 8.6.4.3, and 8.6.5 were modified to include the new ASNT 9712 Program.
17. In paragraphs 9.5 and 12.2, the dates when certification and recertification actually begins were added. This issue came out of an interpretation inquiry to SNT-TC-1A about the date certification starts. See Interpretation 85-6.
18. In paragraph 9.6, the second sentence was changed to read: If the employer chooses to use certificates or wallet cards, the following recommendations are considered best practice and should be followed.

- 7.3 Recommended training course outlines and references for NDT Levels I, II, and III personnel, which may be used as technical source material, are contained in ANSI/ASNT CP-105: *ASNT Standard Topical Outlines for Qualification of Nondestructive Testing Personnel*.
- 7.4 The employer who purchases outside training services is responsible for ensuring that such services meet the requirements of the employer's written practice.

8.0 Examinations

8.1 Administration and Grading

- 8.1.1 All qualification examination questions shall be approved by the NDT Level III responsible for the applicable method and documented.
- 8.1.2 An NDT Level III should be responsible for the administration and grading of examinations specified in paragraphs 8.3 through 8.7 for NDT Level I, II, or other Level III personnel. The administration and grading of examinations may be delegated to a qualified representative of the NDT Level III and documented. Training should be provided to the individual administering the examinations. This training and qualification shall be documented. A qualified representative of the employer may perform the actual administration and grading of NDT Level III examinations specified in paragraph 8.6.
 - 8.1.2.1 To be designated as a qualified representative of the NDT Level III for the administration and grading of NDT Level I, Level II, and Level III personnel qualification examinations, the designee should have documented, appropriate instruction by the NDT Level III in the proper administration and grading of qualification examinations prior to conducting and grading independent qualification examinations for NDT personnel. **The NDT Level III Practical examination specified in paragraph 8.6.4.1 shall be administered by a person certified in the applicable method as NDT Level III.**
- 8.1.3 All NDT Level I, II, and III written examinations should be closed-book except that necessary data, such as graphs, tables, specifications, procedures, codes, etc., may be provided with or in the examination. Questions utilizing such reference materials should require an understanding of the information rather than merely locating the appropriate answer.
- 8.1.4 For NDT Level I and II personnel, a composite grade should be determined by simple averaging of the results of the General, Specific, and Practical examinations described in the following sections. For NDT Level III personnel, the composite grade should be determined by simple averaging of the results of the Basic, Method, Specific, and Practical (if applicable) examinations described in the following sections.
- 8.1.5 Examinations administered by the employer for qualification should result in a passing composite grade of at least 80%, with no individual written examination having a passing grade less than 70%. The Practical examination should have a passing grade of at least 80%.
- 8.1.6 When an examination is administered and graded for the employer by an outside agency and the outside agency issues grades of pass or fail only, on a certified report, then the employer may accept the pass grade as 80% for that particular examination.
- 8.1.7 The employer who purchases outside services is responsible for ensuring that the examination services meet the requirements of the employer's written practice and be documented.
- 8.1.8 In no case shall an examination be administered by oneself or by a subordinate.

8.2 Vision Examinations

- 8.2.1 Near-Vision Acuity. The examination should ensure natural or corrected (no pharmacological agents) near-distance acuity in at least one eye such that the applicant is capable of reading a minimum of Jaeger No. 2 or equivalent type and size letter at the distance designated on the chart but not less than 12 in. (30.5 cm) on a standard Jaeger test chart. The ability to perceive an Ortho-Rater minimum of 8 or similar test pattern is also acceptable. This should be administered annually.
 - 8.2.1.1 Pharmacological agents (eye drops) that would improve or enhance visual acuity at any distance shall not be used.
- 8.2.2 Color-Contrast Differentiation. The examination should demonstrate the capability of distinguishing and differentiating contrast among colors or shades of gray used in the method as determined by the employer. This should be conducted upon initial certification and at five (5) year intervals thereafter.
- 8.2.3 Vision examinations expire on the last day of the month of expiration.

- 8.6.2.3 Twenty (20) questions relating to capability for interpreting codes, standards, and specifications relating to the method.
- 8.6.3 Specific Examination (for each method).
 - 8.6.3.1 Twenty (20) questions relating to specifications, equipment, techniques, and procedures applicable to the employer's product(s) and methods employed and to the administration of the employer's written practice.
- 8.6.4 Practical Examination (for each method).
 - 8.6.4.1 The candidate should prepare an NDT procedure appropriate to the employer's needs; however, if documented experience demonstrates that the candidate has previously prepared acceptable NDT procedures in the method using the specifications, codes, and standards that are applicable to that employer, a written Practical examination (for example, preparation of a procedure) is not required. If experience is substituted for the written Practical examination, the employer should document the pertinent practical experience of the NDT Level III candidate.
 - 8.6.4.2 If the NDT Level III will be required to perform NDT or evaluate NDT results, the Practical examination should include the same demonstrations of the candidate's ability to perform the required activity(ies) as required in paragraph 8.5.5. This practical examination shall be administered by a person certified in the applicable NDT method as NDT Level III. For NDT Level III personnel certified under the employer's current written practice, this requirement should be met prior to the next recertification date, in the applicable method.
 - 8.6.4.3 If the NDT Level III needs to meet the recommendations in paragraph 8.6.4.2, a valid ACCP or ASNT 9712 Level III certificate may be accepted as fulfilling the practical examination criteria in paragraph 8.5.5 for each applicable method if the NDT Level III has determined that the ASNT examinations meet the requirements of the employer's written practice. This acceptance should be documented. If this assessment cannot be accomplished, an employer-administered Practical examination should be completed.
- 8.6.5 A valid endorsement on an ASNT NDT, ACCP Professional, or ASNT 9712 Level III certificate fulfills the examination criteria described in paragraphs 8.6.1 and 8.6.2 for each applicable NDT method. A valid ACCP Professional or ASNT 9712 Level III certificate also fulfills the examination criteria described in paragraph 8.5.5.
- 8.7 Reexamination
 - 8.7.1 Those failing to attain the required grades should wait at least thirty (30) days or receive suitable additional training as determined by the NDT Level III before reexamination.

9.0 Certification

- 9.1 Certification of NDT personnel to all levels of qualification is the responsibility of the employer.
- 9.2 Certification of NDT personnel should be based on demonstration of satisfactory qualification in accordance with Sections 6.0, 7.0, and 8.0, as described in the employer's written practice.
- 9.3 At the option of the employer, an outside agency may be engaged to provide NDT Level III services. In such instances, the responsibility of certification of the employees shall be retained by the employer.
- 9.4 Personnel certification records should be maintained on file by the employer for the duration specified in the employer's written practice and should include the following:
 - 9.4.1 Name of certified individual.
 - 9.4.2 Level of certification, NDT method and/or technique, as applicable, and limitations (if any), as applicable.
 - 9.4.3 Educational background and experience of certified individuals.
 - 9.4.4 Statement indicating satisfactory completion of training in accordance with the employer's written practice.
 - 9.4.5 Results of the vision examinations prescribed in paragraph 8.2 for the current certification period.
 - 9.4.6 Current examination copy(ies) or evidence of successful completion of examinations.
 - 9.4.7 Composite grade(s) or suitable evidence of grades.
 - 9.4.8 Signature of the NDT Level III that verified qualifications of candidate for certification.
 - 9.4.9 Dates of certification and/or recertification.