



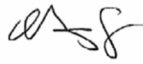
Written Practice

Qualification and Certification of NDT Personnel

PII-WP-1
(formerly WP-1)

Revision 03

Written to ASNT SNT-TC-1A (2024), including the Addendum effective May 2025,
and ASME BPVC Section V (2025), Article 1

Approval	Printed Name	Signature	Date
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Revision / Change Summary

Document	Rev.	Date	Description
WP-1	0	10/01/2021	New format; original issue.
WP-1	01	01/20/2022	Full revision to address updated requirements.
WP-1	02	01/28/2023	Added Section 8.3.6, Level III requirements for advanced techniques.
WP-1	03	07/07/2023	Administrative revision.
WP-1	04	01/01/2024	Technical performance evaluation requirements updated; API 1104 certification intervals added; code review. Written to SNT-TC-1A (2020).
PII-WP-1	01	12/11/2025	Rewrite in a new template under document number PII-WP-1, with the revision number restarted at 01.
PII-WP-1	02	01/01/2026	ASME Section V code review; SNT-TC-1A (2024) implementation.
PII-WP-1	03	06/04/2026	Revised in full to SNT-TC-1A (2024) with the May 2025 Addendum and ASME BPVC Section V (2025), Article 1 (T-110, T-120, Mandatory Appendix II) and Article 9 (T-923). Principal changes: • Revision numbering returned to the WP-1 sequence under document number PII-WP-1 (formerly WP-1); company name corrected (§1.1); reference list rebuilt with editions (Table 1-1); API 1104 edition corrected to the 21st Edition (§1.5.5); transition rules added (§1.6). • Annex A added: technical rationale for each modification of an SNT-TC-1A recommendation (SNT-TC-1A 1.4). • Definitions revised (Certifying Authority, Detection Rate, False Call, Nondestructive Testing, Responsible Level III); one approval matrix (§5.5); responsibilities, Code Case recording, and the 2028 Responsible Level III policy added (§5.7–5.11). • Limited certifications defined once (Table 4-1); DR/CR image interpretation added; limited-certification hours corrected (Table A1-2). • Examinations: documented training of examination administrators; Level II practical examinations administered by a Level III; outside examination services; no self- or subordinate administration; ASNT 9712 certificates recognized; UT-IIA General examination 30 questions; detection-rate and false-call criteria; Level III procedure preparation evaluated by checklist (Appendix 4) and Level II practical demonstration (§8.1–8.8). • Section 8.9 visual acuity examination rewritten with VAE-PII-1 Rev. 01, including the SNT-TC-1A (2024) restriction on pharmacological agents and the Köhler shades-of-gray chart. • Certification date, expiration, record content, and certificate content revised to SNT-TC-1A (2024) 9.4–9.6 (§9.4–9.6); Appendix 3 certification record revised. • Technical performance evaluation made mandatory before recertification at intervals not exceeding 30 months (§10.0); interrupted service, recertification, termination, reinstatement, and record retention completed (§11.0–15.0). • Appendix 2 restated from ASME BPVC Section V (2025), Article 1, Mandatory Appendix II; Appendix 5 certification package checklist added.

* The PII-WP-1 rewrite restarted the revision number at 01. Revision 03 returns to the WP-1 sequence: it follows WP-1 Revision 04, the last WP-1 revision issued, and supersedes WP-1 Revision 04 and PII-WP-1 Revisions 01 and 02. Revision numbers 01 and 02 of the rewrite are not reused, and no WP-1 Revision 05 was issued before this revision.

Table of Contents

1.0	Scope
2.0	Definitions
3.0	Nondestructive Testing Methods and Techniques
4.0	Levels of Qualification
5.0	Written Practice
6.0	Education, Training, and Experience Requirements for Initial Certification
7.0	Training Programs
8.0	Examinations
9.0	Certification
10.0	Technical Performance Evaluation
11.0	Interrupted Service
12.0	Recertification
13.0	Termination
14.0	Reinstatement
15.0	Records
Annex A	Technical Rationale for Modifications to SNT-TC-1A (2024) Recommendations
Appendix 1	Training and Experience Requirements
Appendix 2	Supplemental Requirements for CR, DR, PAUT, TOFD, and FMC (ASME BPVC Section V, Article 1, Mandatory Appendix II)
Appendix 3	NDT Record of Certification
Appendix 4	Level III Procedure Evaluation Checklist
Appendix 5	Certification Package Checklist

1.0 **SCOPE**

- 1.1 This Written Practice, PII-WP-1 (formerly WP-1), establishes the Prime Inspections, Inc. (PII) program for the training, qualification, examination, certification, and recertification of personnel who perform, witness, monitor, interpret, or evaluate nondestructive testing (NDT).

Note: Personnel who perform inspection work for PII under credentials issued by other bodies, such as American Petroleum Institute (API) inspector certifications or American Welding Society (AWS) Certified Welding Inspector, shall meet the visual acuity examination requirements of Section 8.9 whether or not they hold an NDT certification under this Written Practice.

- 1.2 This Written Practice is written to ASNT Recommended Practice No. SNT-TC-1A, 2024 Edition, including the Addendum that took effect in May 2025. Every requirement in this Written Practice is mandatory. Where SNT-TC-1A states a recommendation with “should,” this Written Practice states the corresponding requirement with “shall.”

- 1.3 This Written Practice also meets ASME BPVC Section V (2025), Article 1, T-120(e)(1), including its exceptions to SNT-TC-1A, and T-120(g) with Article 1, Mandatory Appendix II, for the CR, DR, PAUT, TOFD, and FMC techniques. PII applies these ASME requirements to every certification issued under this Written Practice, whether or not the work is performed to an ASME Code, so that one certification serves all work.

- 1.4 Modifications and addenda.

1.4.1 Where this Written Practice modifies a detailed recommendation of SNT-TC-1A, the modification and its technical rationale are recorded in Annex A. No modification eliminates the basic provisions of training, experience, examination, certification, or recertification.

1.4.2 When a Customer specification, contract, or referencing code imposes personnel requirements that add to or differ from this Written Practice, the Corporate Level III shall address them in a written addendum to this Written Practice or in the applicable NDT procedure before the work begins. The more stringent requirement governs. Any resulting limitation or added qualification shall be shown on the certification record.

- 1.5 References. The documents in Table 1-1 are referenced in this Written Practice at the editions shown. For a referencing code such as API 1104, the edition invoked by the contract governs.

Table 1-1 — Referenced Documents

Ref.	Document	Edition	Use in This Written Practice
1.5.1	ASNT Recommended Practice No. SNT-TC-1A, Personnel Qualification and Certification in Nondestructive Testing	2024, with Addendum (May 2025)	Basis of this Written Practice
1.5.2	PII VAE-PII-1, Visual Acuity Examination	Revision 01	Administration and recording of vision examinations (§8.9)
1.5.3	ASME BPVC Section V, Nondestructive Examination, Article 1: T-110, T-120, T-150, T-190, and Mandatory Appendix II	2025	ASME personnel qualification requirements; CR, DR, PAUT, TOFD, and FMC (Appendix 2)

Ref.	Document	Edition	Use in This Written Practice
1.5.4	ASME BPVC Section V, Article 9, T-922 and T-923	2025	Visual examination personnel; annual near-vision examination
1.5.5	API Standard 1104, Welding of Pipelines and Related Facilities, Section 8.4	21st Edition with Errata; a later edition only when invoked by contract (§1.4.2)	Certification, recertification interval, and vision examination of pipeline NDT personnel
1.5.6	ANSI/ASNT CP-105, ASNT Standard Topical Outlines for Qualification of Nondestructive Testing Personnel	Latest edition; 2020 edition as the minimum for Appendix 2 techniques	Training outlines and examination content
1.5.7	ANSI/ASNT CP-189, ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel	2024	Used only when a contract invokes it, by addendum (§1.4.2)
1.5.8	ASNT central certification programs: ASNT NDT Level II and Level III, ASNT 9712 (ANSI/ASNT CP-9712, adopting ISO 9712), and ACCP (ASNT CP-1)	Current	Acceptance of certificates (§8.4 to §8.6)
1.5.9	ASME ANDE-1, Nondestructive Examination and Quality Control Central Qualification and Certification Program	2020	Only when invoked by contract (§8.6.2)
1.5.10	ASNT Policy G-14, Use of the ASNT Name and ASNT Marks	Latest	Certificates and wallet cards (§9.6.2)
1.5.11	ASTM E1316, Standard Terminology for Nondestructive Examinations	Latest	Terminology (§2.0)
1.5.12	PII-QC-1, Quality Control Manual	Current revision	Quality program, document control, and records (§5.9, §15.0)
1.5.13	PII Radiation Safety Program and Operating and Emergency Procedures	Current revision	Radiation safety training (§7.6)

1.6 Transition to Revision 05.

1.6.1 A certification issued under an earlier revision of WP-1 or PII-WP-1 remains valid until its expiration date or the next recertification, whichever comes first, subject to Section 8.9 (vision), Section 10.0 (technical performance evaluation), and Section 11.0 (interrupted service). Recertification and new certification shall meet this revision.

1.6.2 The following requirements take effect as stated:

- a. Level II practical examinations administered by a Level III (§8.1.5): on the effective date.
- b. Documented training of each Examination Administrator (§8.1.4): before the designee next administers an examination.
- c. Level III procedure preparation evaluated by checklist (§8.3.5): for Level III personnel certified before this revision, at the next recertification.
- d. Level II practical demonstration by Level III personnel (§8.3.6): for Level III personnel certified before this revision, before the next recertification date.

- e. Certificate and wallet card content (§9.6.2): at the next issue or change of each certificate or card.
- f. Vision examination transition: §8.9.8.
- g. Technical performance evaluations (§10.1.2): a certification with no passing TPE in the 30 months before the effective date shall receive one within 90 days after the effective date. Section 11.1.1.4 does not apply to that certification during those 90 days.

1.6.3 Within 90 days after the effective date, the Certifying Level III shall review each RT-III (Film or DR/CR) and UT-IIA certification issued under PII-WP-1 Revision 01 or 02 against Table A1-2 and Table 8-1. Where the training hours or examinations did not meet this revision, the individual shall complete what is missing before next performing work under that certification, and the review shall be documented in the certification record.

2.0 **DEFINITIONS**

2.1 The terms below have the meanings given. Other NDT terms have the meanings given in ASTM E1316 and SNT-TC-1A.

Term	Definition
Advanced Ultrasonic Techniques (AUT)	Ultrasonic techniques that use computer-based acquisition, imaging, or analysis systems, whether scanning is manual, encoded, semi-automated, or fully automated. PAUT, TOFD, and FMC are advanced ultrasonic techniques.
Calibration, Instrument	Comparison of an instrument with, or adjustment of an instrument to, a known reference, normally traceable to the National Institute of Standards and Technology (NIST) or another national standards body. See also Standardization, Instrument.
Candidate	An individual being qualified for certification or recertification.
Certification	Written testimony of qualification.
Certifying Agency	The employer of the personnel being certified. For personnel certified under this Written Practice, the Certifying Agency is Prime Inspections, Inc.
Certifying Authority	The person designated in this Written Practice to sign certifications on behalf of PII: the Quality Manager, or another PII officer designated in writing by the Chief Executive Officer & President.
Certifying Level III	A Level III certified by PII in the applicable method and designated in writing by the Corporate Level III to administer the certification process for Level I and Level II personnel in that method and to verify their qualifications.
Closed-Book Examination	An examination given without access to reference material other than material supplied with or in the examination.
Comparable	At an equivalent or similar level of NDT responsibility and difficulty, as determined by the Certifying Level III.
Corporate Level III (CLIII)	The NDT Level III designated by PII as its Responsible Level III, with overall responsibility for the technical adequacy and administration of this Written Practice. The Corporate Level III may be a PII employee or an Outside Agency (§9.1.3).
Detection Rate	The number of discontinuities or indications detected in a qualification specimen divided by the number actually present in the specimen, expressed as a percentage.
Documented	Recorded in written form, on paper or in a controlled electronic system.

Term	Definition
Employer	The corporate, private, or public entity that employs personnel, directly or indirectly, for wages, salary, fees, or other consideration. This includes personnel obtained through a Third-Party Agency when their use and certification are addressed in this Written Practice.
Endorsement	A written authorization recorded on the certification record for an individual to apply a specialized technique or to work under a third-party qualification (for example API QUTE or QUPA, or ASNT ISQ) in addition to PII certification. An endorsement does not replace PII certification.
Examination Administrator	A person designated in writing by the Level III responsible for the method to administer and grade qualification examinations on that Level III's behalf, after documented training (§8.1.4). Formerly "Proctor."
Experience	Work in a specific NDT method under the direction of qualified supervision, including performance of the method and related activities. Time spent in organized training programs is not experience.
False Call	Reporting an acceptable indication, or an unflawed grading unit, as a defect or as a flawed grading unit.
Grading Unit	A section of a qualification specimen used for grading. Grading units need not be equal in length or equally spaced, and may be flawed or unflawed. The proportion of flawed to unflawed units is approved by the Level III.
Limited Certification	A Level II certification restricted to a defined technique, equipment type, or task within a method, as listed in Table 4-1.
Method	One of the disciplines of NDT, such as ultrasonic testing, within which various techniques may exist.
Miscall	Incorrect classification of a detected discontinuity, indication, or condition, such as planar reported as volumetric or linear reported as rounded, or an incorrect accept or reject disposition.
Nondestructive Testing (NDT)	The development and application of technical methods for examining materials or components without impairing their future usefulness or serviceability, in order to detect, locate, measure, and evaluate flaws; assess integrity, properties, and composition; and measure geometric characteristics. Nondestructive examination (NDE) and nondestructive inspection (NDI) are equivalent terms in this Written Practice.
Outside Agency	A company or individual that provides NDT Level III services to PII and whose qualifications for those services have been reviewed and accepted by PII (§9.1.3).
Personalized Instruction	Training delivered through a blend of classroom, supervised laboratory, and online competency-based modules, arranged to suit the student's knowledge, skills, and learning style.
Practical Examination Checklist	The grading document for a practical examination, containing at least ten checkpoints with critical checkpoints identified (§8.2.4.5).
Qualification	Demonstrated skill, demonstrated knowledge, documented training, and documented experience required to properly perform the duties of a specific job.
Quality Manager	The PII manager responsible for control of this Written Practice and for maintenance of certification records (PII-QC-1).
Recommended Practice	A set of guidelines that assists an employer in developing uniform procedures for the qualification and certification of NDT personnel.
Responsible Level III	The NDT Level III responsible for an employer's certification program, as addressed in the SNT-TC-1A (2024) Addendum. At PII, the Corporate Level III.
Standardization, Instrument	Setting an NDT instrument against a suitable reference standard so that it gives a known, repeatable response. It is normally done before an examination and repeated whenever the instrument response is in doubt. See also Calibration, Instrument.

Term	Definition
Technical Performance Evaluation (TPE)	A practical examination given by a Level III during the certification period to re-evaluate the performance of a certified individual (Section 10.0).
Technique	A category within an NDT method, such as ultrasonic thickness measurement.
Test Specimen	The item on which the NDT process is performed for a practical examination, a technical performance evaluation, or a procedure demonstration.
Third-Party Agency	A company or organization without its own written practice that provides supplemental workforce to PII, such as a temporary staffing company.
Trainee	An individual being trained, qualified, and certified who is not yet certified in the method (§4.2).
Training	An organized program developed to impart the knowledge and skills necessary for qualification.
Visual Acuity (VA) Administrator	A person designated in writing by the Certifying Level III to administer vision examinations in accordance with VAE-PII-1.
Written Practice	The procedure developed by the employer that details the requirements for qualification and certification of its employees. At PII, this document.

3.0 NONDESTRUCTIVE TESTING METHODS AND TECHNIQUES

3.1 PII may qualify and certify personnel in the methods and techniques listed in Table 3-1.

Table 3-1 — Methods and Techniques

Method	Techniques
Acoustic Emission Testing (AE)	Method certification
Electromagnetic Testing (ET)	Alternating Current Field Measurement (ACFM); Eddy Current Testing (ECT), surface and tubing, including pulsed eddy current; Remote Field Testing (RFT)
Guided Wave Testing (GW)	Method certification
Laser Methods Testing (LM)	Profilometry
Leak Testing (LT)	Bubble Leak Testing (BT); Pressure Change Leak Testing (PCT); Halogen Diode Leak Testing (HDLT); Mass Spectrometer Leak Testing (MSLT)
Liquid Penetrant Testing (PT)	Visible (color contrast); fluorescent
Magnetic Flux Leakage Testing (MFL)	Method certification
Magnetic Particle Testing (MT)	Yoke; prods; coil; head shot and central conductor; visible and fluorescent particles
Radiographic Testing (RT)	Film radiography (X-ray and gamma ray); Computed Radiography (CR); Digital Radiography (DR); Computed Tomography (CT)
Thermal/Infrared Testing (IR)	Building Diagnostics; Electrical and Mechanical; Materials Testing
Ultrasonic Testing (UT)	Pulse-echo contact and immersion, straight beam and angle beam; thickness measurement; Phased Array (PAUT); Time-of-Flight Diffraction (TOFD); Full Matrix Capture (FMC)
Visual Testing (VT)	Direct; remote; translucent

3.2 Certification in a method or technique shall be issued only when PII has (a) an approved NDT procedure or work instruction for it, (b) a Level III certified by PII in the method, and (c) training, examination, and specimen resources that meet this Written Practice.

- 3.3 Qualification requirements for a method or technique not listed in Table 3-1, including one for which ASNT offers no Level III certification, shall be established by the Corporate Level III in a revision or addendum to this Written Practice before any certification is issued.
- 3.4 This Written Practice, its revisions and addenda, and any deviation from it shall be approved as specified in §5.5.

4.0 **LEVELS OF QUALIFICATION**

- 4.1 PII recognizes the following levels: Trainee, Level I, Level II-Limited, Level II, Level III, and Instructor. Level I, Level II-Limited, Level II, and Level III require certification. Instructor is a qualification (§7.5). Each certification is limited to the methods, techniques, and scope in which the person has been trained, examined, and certified.
- 4.2 **Trainee.** A person being initially trained, qualified, and certified in a method is a trainee in that method. A trainee shall work with, and under the direction of, a person certified in the method and shall not independently perform, interpret, evaluate, or report the results of any NDT. A trainee shall pass the vision examination of Section 8.9 before receiving training or on-the-job training.
- 4.3 **Level I.** A Level I is qualified to perform specific calibrations and standardizations, specific tests, and specific evaluations for acceptance or rejection in accordance with written instructions, and to record results. A Level I works under the instruction and supervision of a certified Level II or Level III. A Level I shall not interpret results. Any accept or reject evaluation a Level I makes under written instructions shall be reviewed and signed by a Level II or Level III.
- 4.4 **Level II-Limited.** A Level II-Limited performs Level II functions only within the limited scope defined in Table 4-1. The certification record and certificate shall state the limitation in the wording given in Table 4-1. A limited certification not listed in Table 4-1 may be created only by revision or addendum approved under §5.5.

Table 4-1 — Limited Certifications

Designation	Method	Scope	Certificate Wording
MT-III	MT	Magnetic particle examination with a yoke only (AC, DC, or permanent magnet), visible or fluorescent particles	Limited to Yoke Only
PT-III	PT	Visible (color contrast) penetrant examination only	Limited to Visible Penetrant Only
UT-III	UT	Straight-beam (0°) flaw detection and thickness measurement with an A-scan flaw detector; no angle-beam examination	Limited to Straight Beam (0°) Only
UT-IIA	UT	Thickness measurement with an instrument that displays an A-scan (flaw detector or A-scan thickness gauge)	Limited to Thickness Measurement Only (A-scan)
UT-IIT	UT	Thickness measurement with a digital thickness gauge having numeric output only	Limited to Thickness Measurement Only (Digital Gauge)
RT-III (Film)	RT	Interpretation and evaluation of film radiographs; does not operate radiation sources or produce radiographs	Limited to Film Interpretation Only

Designation	Method	Scope	Certificate Wording
RT-III (DR/CR)	RT	Interpretation and evaluation of DR or CR images on the approved viewing software; does not acquire images or operate radiation sources	Limited to DR/CR Image Interpretation Only
ET-III	ET	Eddy current data collection only; no analysis or disposition	Limited to Data Collection Only
ET-IIG	ET	Surface eddy current examination of ferrous gears in accordance with the applicable PII procedure, including data collection and analysis	Limited to Ferrous Gear Surface Inspection Only

4.5 **Level II.** A Level II is qualified to set up, calibrate, and standardize equipment; perform NDT; and interpret and evaluate results with respect to the applicable codes, standards, specifications, and procedures. A Level II shall be thoroughly familiar with the scope and limitations of the methods in which certified, shall exercise assigned responsibility for on-the-job training and guidance of trainees, Level I, and Level II-Limited personnel, may prepare written instructions, and shall organize and report the results of NDT.

4.5.1 An ET Level II certification shall state whether the individual is qualified as a Surface Analyst, a Tubing Analyst, or both.

4.6 **Level III.** A Level III is qualified to develop, qualify, and approve procedures; establish and approve techniques; interpret codes, standards, specifications, and procedures; and designate the NDT methods, techniques, and procedures to be used. A Level III is responsible for the NDT operations for which qualified and assigned; interprets and evaluates results in terms of existing codes, standards, and specifications; has sufficient practical background in materials, fabrication, and product technology to establish techniques and to assist in establishing acceptance criteria where none exist; has general familiarity with other appropriate NDT methods, as demonstrated by the ASNT Level III Basic examination or the PII Basic examination; and is capable of training and examining Level I, Level II, and Level III personnel in the methods in which certified.

4.6.1 A Level III shall not perform NDT or evaluate NDT results in a method or technique until the Level III has met §8.3.6 in that technique. A Level III certified before Revision 05 shall meet §8.3.6 within the period allowed by §8.3.6.4.

4.6.2 For CR, DR, PAUT, TOFD, and FMC, a Level III shall also meet Appendix 2, §A2.5, before training, examining, or certifying others in the technique or performing examinations in it.

4.7 **Instructor.** An Instructor plans, organizes, and presents classroom, laboratory, and on-the-job training in accordance with approved course outlines and is familiar with the codes, standards, and procedures used in the method. Instructor requirements are given in §7.5.

5.0 **WRITTEN PRACTICE**

5.1 PII has established this Written Practice for the control and administration of NDT personnel training, examination, and certification, and shall maintain it current.

- 5.2 Section 4.0 states what each certification level may decide about the acceptability of materials or components under the governing codes, standards, specifications, and procedures.
- 5.3 Sections 6.0 through 8.0 and Appendices 1 and 2 set out, for each method, technique, and level, the training, experience, and examinations required.
- 5.4 Table 3-1 identifies the techniques within each method that apply to PII's scope of operations.
- 5.5 This Written Practice, each revision, and each addendum shall be reviewed and approved by the Corporate Level III, as PII's Responsible NDT Level III, and approved by the Quality Manager before issue. A deviation from this Written Practice shall be documented, limited in scope and duration, and approved in the same manner before it is implemented.
- 5.6 This Written Practice is a controlled document under PII-QC-1. An uncontrolled copy may be provided to a Customer on request. Each superseded revision shall be retained (§15.2.4) so that every certification can be traced to the revision under which it was issued.
- 5.7 Responsibilities.
 - 5.7.1 **Corporate Level III.** Maintains the technical adequacy of this Written Practice and revises it under §5.8; designates Certifying Level III personnel in writing; approves training programs and outlines together with the Level III responsible for each method; prepares or approves Level III examination questions and administers and grades Level III examinations, or designates a Level III to do so; verifies Level III qualifications; accepts Outside Agencies' training and examination services; and evaluates ASNT and central certification program certificates offered in place of PII examinations.
 - 5.7.2 **Certifying Level III.** Implements this Written Practice in the method; approves Level I and Level II examination questions; administers and grades examinations or designates and trains Examination Administrators; administers Level II practical examinations and technical performance evaluations; verifies candidate qualifications; approves limited certifications; designates Visual Acuity Administrators; and reviews vision examination records.
 - 5.7.3 **Quality Manager.** Controls this Written Practice as a document; signs certifications as Certifying Authority; maintains certification records, examination files, and the certification tracking system; notifies Operations management at least 30 days before a certification, technical performance evaluation, or vision examination falls due; and audits the program in accordance with PII-QC-1.
 - 5.7.4 **Examination Administrators and Visual Acuity Administrators.** Administer and grade examinations, or administer vision examinations, within their written designation and the instructions of the designating Level III, and protect examination security.

- 5.7.5 **Operations management and field supervisors.** Assign NDT only to personnel whose certifications, technical performance evaluations, and vision examinations are current, within the limitations shown on the certification record, and report performance concerns to the Certifying Level III.
- 5.7.6 **Certified personnel.** Work only within their certifications and limitations; keep their vision examination current; wear any corrective aid required by their vision record; and report to their supervisor any change in vision or in certification status.
- 5.8 The Corporate Level III shall review this Written Practice and document the review (a) within six months after a new edition or addendum of SNT-TC-1A, or a new edition of ASME BPVC Section V, is issued; (b) before a method or technique is added to Table 3-1; and (c) at least once every three years. A new edition of Section V becomes mandatory six months after its date of issuance unless the referencing document states otherwise (ASME Section V, T-110).
- 5.9 PII-QC-1, Section 11.0, provides that NDT personnel are qualified and certified under this Written Practice. Together they satisfy the requirement of ASME Section V, T-120, that the organization's quality program state how qualification and certification are accomplished.
- 5.10 When a certification relies on an ASME Code Case, the Code Case number shall be recorded on the certification record (ASME Section V, T-110).
- 5.11 The SNT-TC-1A (2024) Addendum gives notice of an ASNT policy: beginning six months after the 2028 edition of SNT-TC-1A is issued, the employer's certification of its Responsible Level III shall be based on an ASNT NDT Level III or ASNT 9712 Level III certificate, and the policy will apply to written practices developed to earlier editions. The Addendum (paragraph 1.5 and Appendix C) describes ASNT Employer-Based Certification (EBC) accreditation as the alternative for an employer whose Responsible Level III does not hold such a certificate. The Corporate Level III and Quality Manager shall confirm PII's means of compliance before that date and revise this Written Practice as needed.

6.0 EDUCATION, TRAINING, AND EXPERIENCE REQUIREMENTS FOR INITIAL CERTIFICATION

- 6.1 A candidate shall meet the education, training, and experience requirements of this section, documented under §6.5, before being certified. Documentation of certification by a previous employer may be used as evidence of qualification for a comparable level when the Certifying Level III has reviewed and accepted it in writing.
- 6.2 **Education.** The minimum education for any certification level is a high school diploma, a GED, or an equivalent secondary-school credential. A copy of the credential shall be kept in the certification record.
- 6.3 **Level I, Level II, and Level II-Limited.**
 - 6.3.1 The minimum training and experience hours for Level I and Level II are given in Appendix 1, Table A1-1, subject to the notes to that table.

- 6.3.2 The minimum training and experience hours for each limited certification are given in Appendix 1, Table A1-2.
- 6.3.3 Certification in CR, DR, PAUT, TOFD, or FMC shall also meet Appendix 2.
- 6.3.4 A candidate may be certified directly to Level II without holding Level I when the candidate's training and experience equal at least the sum of the Level I and Level II hours.
- 6.3.5 The minimum hours in the method or technique shall be met separately for each method or technique. Total NDT hours may include experience in other methods and NDT-related work such as job preparation, equipment maintenance, and preparation of NDT reports. The same hours shall not be credited to the minimum of more than one method.
- 6.3.6 Experience shall be gained under the direction of personnel certified as Level II or Level III in the method. Time spent in organized training does not count as experience.
- 6.3.7 Hands-on laboratory hours completed in an expanded training program at an educational institution or college, beyond the minimum training hours, may be credited toward experience when approved and documented by the Certifying Level III. Such credit shall not exceed 25 percent of the required experience hours; at least 75 percent of the required experience shall be gained in the field.
- 6.3.8 Training hours shall not be reduced on the basis of the candidate's education level.
- 6.4 **Level III.** A Level III candidate shall meet one of §6.4.1 through §6.4.3, in addition to the Level I and Level II training and experience in the method and any additional training required by Appendix 2 or the referencing code or specification.
 - 6.4.1 A bachelor's or higher degree in engineering or science, plus one year of experience beyond the Level II requirements in an NDT assignment comparable to Level II in the method; or
 - 6.4.2 Successful completion of at least two years of engineering or science study at a university, college, or technical school, plus two years of experience beyond the Level II requirements in an NDT assignment at least comparable to Level II in the method; or
 - 6.4.3 Four years of experience beyond the Level II requirements in an NDT assignment at least comparable to Level II in the method.
- 6.5 **Documentation of qualifications.**
 - 6.5.1 Training shall be documented by course records showing the provider, instructor, dates, hours, content or outline, and examination result. Experience shall be documented by records showing the employer, dates, hours by method and technique, and the supervising certified individual.

- 6.5.2 Training and experience gained with another employer or training provider may be accepted when documented by that employer or provider. The Certifying Level III shall determine and document that it is equivalent to the requirements of this Written Practice.
- 6.5.3 When documentation of prior training or experience cannot be obtained after reasonable efforts because it has been lost or destroyed, a Statement of Fact signed by the candidate may be accepted. Where possible, the statement shall be confirmed by a person with first-hand knowledge of the training or experience. The statement shall be approved by the Certifying Level III and the Quality Manager.
- 6.5.4 All qualification documentation shall be kept in the individual's certification record.
- 6.6 **Limited certifications.** Each limited certification shall be approved by the Certifying Level III and documented in the certification record, and its limitation shall be stated on the certification in the wording of Table 4-1.

7.0 **TRAINING PROGRAMS**

- 7.1 A candidate for initial certification shall complete organized training in the method and technique that makes the candidate thoroughly familiar with the principles and practices of the method at the level sought and as applied to PII's processes and products. Training may be delivered as instructor-led training in person or online, personalized instruction, computer-based training, or web-based training. Computer-based and web-based training shall record the hours and content completed and shall include student examinations.
- 7.2 Training outlines shall be consistent with the topical outlines of ANSI/ASNT CP-105 for the method and, for the techniques in Appendix 2, shall include the CP-105 (2020) outlines as a minimum. Outlines may be expanded for PII applications and shall list the references from which the material is drawn. Each course shall include periodic knowledge checks in addition to the final examination, and shall address ethical conduct and the integrity of NDT data and records.
- 7.3 Each training program and outline shall be approved by the Level III responsible for the method and accepted by the Corporate Level III before training hours are credited. When PII uses an outside training provider, PII remains responsible for confirming that the training meets this Written Practice, and that confirmation shall be documented.
- 7.4 Self-study hours shall not be credited toward training requirements.
- 7.5 **Instructors.** An instructor shall have the skills and knowledge to plan, organize, and present classroom, laboratory, demonstration, and on-the-job training, and shall meet at least one of the following for the method taught:
 - a. Certified as a Level III in the method;
 - b. A bachelor's degree in engineering, physical science, or technology, with knowledge of the method verified and documented by the Level III responsible for the method;

- c. Graduation from a two-year program in science, engineering, or NDT, plus at least five years of documented experience as a Level II, or equivalent, in the method; or
 - d. At least ten years of documented experience as a Level II, or equivalent, in the method.
- 7.6 **Radiation safety training.** Independent of RT, CR, DR, or CT method training, personnel who work with radiation sources or X-ray equipment shall complete the radiation safety training required by the regulatory jurisdiction and the PII Radiation Safety Program before performing that work.
- 7.7 **Equipment and software training.** Manufacturer-specific hardware and software training for CR and DR systems, and supplemental hardware and software training for automated and semi-automated PAUT, TOFD, and FMC applications, shall meet Appendix 2, §A2.2.
- 7.8 **Additional training.** Additional training required by the Certifying Level III under §8.8, §10.4, or §13.3 shall be documented and shall address the areas found deficient.

8.0 **EXAMINATIONS**

8.1 **Administration and Grading**

- 8.1.1 Certification examinations shall be given only to candidates who have met the education, training, and experience requirements and hold a current vision examination (§8.9). The Level III who signs the first examination taken for an initial certification or recertification is responsible for verifying the candidate's qualifications.
- 8.1.2 All qualification examination questions shall be approved by the Level III responsible for the method, and the approval shall be documented. Question banks, master examinations, grading keys, and practical specimens shall be controlled by that Level III and shall not be released to candidates.
- 8.1.3 The Certifying Level III is responsible for administering and grading Level I and Level II examinations in the method. Level III examinations shall be administered and graded by the Corporate Level III or by a Level III designated by the Corporate Level III.
- 8.1.4 Administration and grading of written examinations may be delegated to an Examination Administrator designated in writing by the responsible Level III. Before independently administering or grading an examination, the designee shall receive documented instruction from that Level III in examination administration and grading, including examination security, permitted reference material, time limits, grading keys, and recording of results. The Level III shall review and sign each examination graded by a designee.

- 8.1.5 A Level I practical examination shall be administered by a person certified by PII as Level II or Level III in the method and technique. A Level II practical examination, including an examination for a Level II-Limited certification, shall be administered by a Level III certified by PII in the method, or by an Outside Agency Level III certified in the method and accepted under §9.1.3.
- 8.1.6 General, Basic, and Method examinations are closed-book, except for data supplied with or in the examination. Specific examinations may provide necessary data, such as graphs, tables, specifications, procedures, and codes. Questions that use reference material shall require an understanding of the material rather than merely locating an answer.
- 8.1.7 No person shall administer or grade an examination for himself or herself, and no examination shall be administered or graded by a subordinate of the candidate.
- 8.1.8 When PII purchases examination services from an outside provider, PII remains responsible for confirming that the services meet this Written Practice, and that confirmation shall be documented before the results are used.
- 8.1.9 All examinations for one certification shall be completed within 60 days after the first examination, unless the Certifying Level III approves a longer period in writing. Otherwise the examination process shall be restarted.
- 8.1.10 Online examinations are preferred for Level I and Level II. Hard-copy examinations may be used with the approval of the Certifying Level III.
- 8.1.11 Questions published in the public domain, such as ASNT question books and study guides, may be used as models but shall not be used verbatim in a qualification examination.
- 8.1.12 When a Customer, code, or specification requires a written examination in addition to those of this Written Practice, that examination shall meet the minimum number of questions in the referenced document unless otherwise specified.

8.2 **Level I and Level II Examinations**

- 8.2.1 Certification as Level I, Level II, or Level II-Limited requires a General, a Specific, and a Practical examination in the method or technique, except as permitted by §8.4 for the General examination.
- 8.2.2 **General examination.** A written, closed-book examination on the basic principles of the method. Questions shall be selected or written by the Level III from the applicable elements of the CP-105 outline for the method and techniques in Table 3-1. The minimum number of questions is given in Table 8-1.

8.2.3 **Specific examination.** A written examination on the equipment, operating procedures, and techniques the individual may encounter in PII assignments, and on the PII procedures, codes, specifications, and acceptance criteria used in that work, drawing on the applicable elements of the CP-105 outline. The minimum number of questions is given in Table 8-1.

Table 8-1 — Minimum Number of Examination Questions

Method / Technique	General, Level I	General, Level II	Specific, Level I	Specific, Level II
Acoustic Emission Testing	40	40	20	20
Electromagnetic Testing				
Alternating Current Field Measurement	40	40	20	20
Eddy Current Testing (incl. ET-IIL, ET-IIG)	40	40	20	20
Remote Field Testing	30	30	20	20
Guided Wave Testing	40	40	20	20
Laser Methods Testing — Profilometry	30	30	20	20
Leak Testing				
Bubble, Pressure Change, Halogen Diode	20	20	15	15
Mass Spectrometer	20	20	20	40
Liquid Penetrant Testing (incl. PT-IIL)	40	40	20	20
Magnetic Flux Leakage Testing	20	20	20	15
Magnetic Particle Testing (incl. MT-IIL)	40	40	20	20
Radiographic Testing				
Film radiography; Computed Tomography	40	40	20	20
Computed Radiography (CR); Digital Radiography (DR) (Note 1)	40	40	30	30
RT-IIL (Film) interpretation (Note 2)	—	40	—	20
RT-IIL (DR/CR) interpretation (Notes 1 and 2)	—	40	—	30
Thermal/Infrared Testing				
Level I (all techniques)	40	—	20	—
Level II: Building Diagnostics; Electrical and Mechanical; Materials Testing	—	50	—	40
Ultrasonic Testing				
UT (incl. UT-IIL)	40	40	20	20
PAUT; TOFD; FMC (Note 1)	—	40	—	30
UT-IIA, A-scan thickness measurement	—	30	—	15
UT-IIT, digital thickness measurement (Note 3)	—	20	—	15
Visual Testing	40	40	20	20

Notes: (1) CR, DR, PAUT, TOFD, and FMC values include ASME BPVC Section V (2025), Article 1, Mandatory Appendix II, Tables II-122.1 and II-122.2. (2) Candidates for RT-IIL, whether or not they hold RT Level I, take the Level II RT General examination and the Specific examination shown; the DR/CR Specific examination meets Table II-122.1. (3) The UT-IIT Specific examination exceeds the SNT-TC-1A (2024) Table 8.3.3 value; see Annex A.

8.2.4 **Practical examination.**

- 8.2.4.1 The candidate shall demonstrate familiarity with and the ability to operate the NDT equipment, perform the required calibration or standardization, apply the technique, and record and analyze the resulting information to the degree required for the level and scope of certification.
- 8.2.4.2 Practical examinations shall use flawed specimens that are representative of PII's work and approved by the Level III. Each specimen shall have a grading key, approved and documented by the Level III, identifying each discontinuity or condition by type, location, and size and designating the detections required to pass.
- 8.2.4.3 The minimum number of specimens is:
 - a. Level I and Level II: two flawed specimens for the method, plus at least one flawed specimen for each technique covered by the certification;
 - b. CR and DR: as specified in Appendix 2, §A2.4.1;
 - c. PAUT, TOFD, and FMC: as specified in Appendix 2, §A2.4.2, with specimens representative of the components and configurations the candidate will examine;
 - d. RT-III (Film): at least 20 radiographs. RT-III (DR/CR): at least 20 digital images, displayed on the approved viewing software, taken from at least five specimens (welds or parts), each specimen containing at least two discontinuities; the images may be raw, unfiltered images supplied with the technique details. Additional images may be given at the discretion of the Level III.
- 8.2.4.4 A Level I candidate shall evaluate results to the degree of responsibility described in §4.3. A Level II candidate shall select and apply the technique, interpret and evaluate the results against the procedure and acceptance criteria, and report the results on the PII report form with a sketch where applicable.
- 8.2.4.5 Each practical examination shall be graded on a checklist containing at least ten checkpoints that require an understanding of the NDT variables and PII's procedural requirements. The examination is scored as a percentage. Critical checkpoints shall be clearly marked on the checklist; failure of any critical checkpoint is failure of the examination regardless of the score. The practical examination checklist in SNT-TC-1A (2024), Appendix A, may be used as a model.
- 8.2.4.6 Detection and false calls. To pass, the candidate shall (a) achieve a detection rate of 100 percent of the discontinuities and conditions designated on the grading key as required detections; (b) make not more than one false call on any specimen, radiograph, or image; and (c) for Level II and Level II-Limited, make not more than one miscall on any specimen, radiograph, or image.

8.2.4.7 The examination record shall include the date; the candidate; the specimen identification and description; the procedure and revision; the equipment used; the checklist with checkpoint scores; the candidate's results and report; and the signatures of the administrator and the Level III.

8.2.4.8 Before an initial certification practical examination, the Certifying Level III may require the candidate to demonstrate proficiency on selected flawed specimens. Results of such a demonstration shall be documented and shall not replace the practical examination.

8.2.5 **Technique-specific practical examinations.**

8.2.5.1 RT: the practical examination shall be performed with the recording medium for which certification is sought (film, CR, DR, or CT). Each medium requires its own practical examination.

8.2.5.2 UT-III: straight-beam examination with an A-scan flaw detector. UT-IIA: thickness measurement with an A-scan instrument. UT-IIT: thickness measurement with a digital thickness gauge.

8.2.5.3 ET-III: data collection. ET Level II: data collection and analysis; for tubing, a practical examination for each tubing technique used. ET-IIG: data collection and analysis on ferrous gear specimens representative of field conditions.

8.2.5.4 Other limited certifications: with the specific equipment or technique to which the certification is limited.

8.2.5.5 PAUT, TOFD, and FMC: as specified in Appendix 2, including the system and software on which the candidate will work.

8.3 **Level III Examinations**

8.3.1 Initial Level III certification requires the Basic, Method, Specific, and Practical examinations. Certification in an additional method requires the Method, Specific, and Practical examinations.

8.3.2 **Basic examination.** Closed-book, with at least: 20 questions on SNT-TC-1A and this Written Practice; 20 questions on materials, fabrication, and product technology; and 20 questions similar to published Level II questions for other appropriate NDT methods. The Basic examination need not be repeated while the person continuously holds a Level III certification from PII or ASNT in any method.

8.3.3 **Method examination** (each method). At least 30 questions on fundamentals and principles, similar to published ASNT Level III questions; 15 questions on the application and establishment of techniques and procedures; and 20 questions on interpreting the codes, standards, and specifications for the method.

8.3.4 **Specific examination** (each method). At least 30 questions on the specifications, equipment, techniques, and procedures used in PII's work in the method and on the administration of this Written Practice.

8.3.5 Practical examination: procedure preparation (each method).

8.3.5.1 Before initial certification by PII in a method, the candidate shall prepare a written NDT procedure for that method that meets the requirements of an ASME construction or in-service inspection code or standard applicable to PII's work. A procedure the candidate has already prepared for PII may be used.

8.3.5.2 The procedure shall be evaluated by the Level III responsible for the method, using the Appendix 4 checklist, which addresses the technical and practical adequacy of the procedure. The completed checklist is the Practical examination record and grade. A Level III shall not evaluate a procedure he or she prepared; the Corporate Level III's procedure shall be evaluated by another Level III certified in the method, who may be an Outside Agency.

8.3.5.3 This requirement is met once per method for PII. A Level III certified by PII before Revision 05 shall meet it at the next recertification.

8.3.6 Level II practical demonstration.

8.3.6.1 A Level III who will perform NDT, evaluate NDT results, or administer practical examinations or technical performance evaluations shall pass the Level II practical examination of §8.2.4 in each applicable technique within the method, administered under this Written Practice by another Level III certified in the method.

8.3.6.2 A Level II practical examination passed under this Written Practice for a current PII Level II certification in the same method and technique satisfies §8.3.6.1.

8.3.6.3 An ASNT NDT, ACCP Professional, or ASNT 9712 Level III certificate shall not be accepted in place of this demonstration.

8.3.6.4 A Level III certified by PII before Revision 05 shall meet §8.3.6.1 before the next recertification date in the method. Once met for a technique, it need not be repeated for PII; the technical performance evaluations of §10.2 apply thereafter.

8.3.7 For CR, DR, PAUT, TOFD, and FMC, the Level III shall also meet Appendix 2, §A2.5.

8.4 Acceptance of ASNT Level II Certificates

8.4.1 A valid ASNT NDT Level II, ACCP Professional Level II, or ASNT 9712 Level II certificate in the method may be accepted in place of the PII General examination when the Level III responsible for the method has determined that the ASNT examination meets this Written Practice. The determination shall be documented and kept in the certification record with a copy of the certificate.

8.4.2 ASNT certificates shall not be accepted in place of the PII Specific or Practical examination.

- 8.4.3 ACCP certification shall not be used as the basis for certification for ASME Section III work.

8.5 Acceptance of ASNT Level III Certificates

- 8.5.1 A valid ASNT NDT Level III, ACCP Professional Level III, or ASNT 9712 Level III certificate with an endorsement for the method fulfills the PII Basic and Method examinations for that method. A copy of the certificate and endorsement, verified as current with ASNT, and the ASNT examination results letter, where available, shall be kept in the certification record.
- 8.5.2 The Level III Specific and Practical examinations and the Level II practical demonstration (§8.3.4 to §8.3.6) shall always be administered under this Written Practice; ASNT certificates are not accepted in their place.
- 8.5.3 ACCP certification shall not be used as the basis for certification for ASME Section III work.

8.6 Central Certification Programs

- 8.6.1 Certification under a national or international central certification program based on ISO 9712 may be used to satisfy the training, experience, General, Basic, and Method examination requirements when the Corporate Level III has evaluated and accepted it in writing. The PII Specific and Practical examinations are always required.
- 8.6.2 Qualification under ASME ANDE-1 may be used only when a contract invokes it and an addendum under §1.4.2 addresses it.
- 8.6.3 Each evaluation under this section shall be kept in the individual's certification record.

8.7 Examination Grades

- 8.7.1 Level I and Level II written examinations shall be graded by the Certifying Level III or an Examination Administrator, and practical examinations by the person who administers them under §8.1.5. The Certifying Level III shall review and sign each graded examination before certification. Level III examinations shall be graded by the Corporate Level III or a Level III designated by the Corporate Level III.
- 8.7.2 Scores shall be recorded to two decimal places without rounding up. The composite grade is the simple average of the General, Specific, and Practical examination grades for Level I and Level II, and of the Basic, Method, Specific, and Practical (procedure preparation) examination grades for Level III. When fewer examinations are taken, as at Level III recertification, the composite grade is the simple average of the examinations taken.
- 8.7.3 Practical examinations shall be graded in accordance with §8.2.4.5 and §8.2.4.6.
- 8.7.4 Examination Administrators shall be designated and trained in accordance with §8.1.4.

8.7.5 Passing grades for Level I, Level II, and Level III:

8.7.5.1 Each written examination: at least 70.00 percent.

8.7.5.2 Each practical examination: at least 80.00 percent, with no critical checkpoint failed.

8.7.5.3 Composite grade: at least 80.00 percent.

8.7.5.4 When an examination is administered and graded by an outside agency, numeric grades shall be recorded as reported. When the outside agency reports only pass or fail on a certified report, a pass may be recorded as 80.00 percent for that examination.

8.8 **Re-Examination**

8.8.1 A candidate who fails an examination shall complete additional training determined by the Certifying Level III (the Corporate Level III for Level III examinations) before re-examination. The training shall address the areas found deficient and shall be documented.

8.8.2 A written re-examination shall use a different version of the examination in which at least 25 percent of the questions were not in the failed examination. A practical re-examination shall use specimens other than those used in the failed examination.

8.8.3 Only the failed examination need be retaken within the period of §8.1.9, and the composite grade shall be recalculated with the re-examination grade.

8.9 **Visual Acuity Examination**

8.9.1 **General**

8.9.1.1 Each person who performs, interprets, or evaluates NDT, including API, AWS, and PMI inspection work (§1.1, Note), and each person who receives training or on-the-job training, shall pass the examination defined in this section before doing that work. This applies to trainees. It does not apply to helpers who do not perform, interpret, or evaluate examinations.

8.9.1.2 The examination shall be administered by the Certifying Level III; a Visual Acuity Administrator designated in writing by the Certifying Level III; or a licensed optometrist, ophthalmologist, physician, nurse practitioner, registered nurse, or physician assistant.

8.9.1.3 The examination shall be administered, scored, and recorded in accordance with procedure VAE-PII-1, Visual Acuity Examination. Results shall be recorded on Form VAE-PII-1 (VAE-PII-1, Attachment A).

8.9.1.4 Any corrective aid used to pass a test shall be recorded on the form and shall be worn whenever the person performs NDT.

8.9.1.5 Eye drops or other pharmacological agents that improve or enhance visual acuity at any distance shall not be used to meet any test in Table 8.9-1. Prescription spectacles and contact lenses worn as corrective aids are permitted and are recorded under §8.9.1.4. Before testing, the examinee shall state on Form VAE-PII-1 whether any such agent was used that day; if one was used, the examination shall be rescheduled.

8.9.2 Required Tests and Acceptance Criteria

8.9.2.1 Every person shall complete four of the five tests in Table 8.9-1, determined by the methods held.

8.9.2.2 A single Hardy-Rand-Rittler (HRR) plate test may be recorded against both Test 3 and Test 4 when the result for each is recorded on its own line.

8.9.2.3 Each item of test media shall carry an identification number, which shall be recorded on the form. Plates and charts shall be stored closed when not in use and removed from service when faded, stained, or damaged, or at the replacement interval the manufacturer recommends.

8.9.2.4 When more than one test medium is used for the same test, the examinee shall meet the criterion for each medium used.

8.9.2.5 Test 1 meets SNT-TC-1A (2024), 8.2.1, and the near-vision requirements of API 1104, 8.4.3.1, and ASME Section V, Article 9, T-923. Tests 3, 4, and 5 meet SNT-TC-1A (2024), 8.2.2, and API 1104, 8.4.3.2. Where these tests exceed SNT-TC-1A, Annex A gives the rationale.

Table 8.9-1 — Vision Tests, Test Media, and Acceptance Criteria

Test	Capability	Test Media	Acceptance Criteria
1	Near vision	Jaeger near-vision chart	Read J1 letters at not less than 12 in. (30.5 cm), in at least one eye, natural or corrected.
2	Far vision	Snellen chart or equivalent, used at the distance for which the chart is rated	20/30 or better, in at least one eye, natural or corrected.
3	Color differentiation, red/green	Pseudoisochromatic plates: Ishihara (14, 24, or 38 plate) or HRR	Ishihara: plates read normally meet the manufacturer's normal value for the edition (VAE-PII-1, Table 9-1). HRR: all symbols on screening plates 7 through 10 correct, each eye.
4	Color differentiation, blue/yellow	HRR pseudoisochromatic plates, or Farnsworth D-15	HRR: all symbols on screening plates 5 and 6 correct, each eye. D-15: the manufacturer's pass criterion for the test set in use; where none is stated, caps in numerical order with no crossings. Ishihara plates do not screen blue/yellow and shall not be used for this test.
5	Shades of gray	7-step density step wedge; 7-step digital gray-level test image; 7-step printed gray-scale chart; or the Köhler "Eye Examination: Shades of Gray" chart (25 readings), printed at 100 percent scale or displayed at 100 percent zoom. Presented under the conditions of VAE-PII-1, Section 9.5.	7-step media: at least 5 of the 7 steps distinguished. Köhler chart: at least 20 of the 25 readings correct, viewed at 30 to 50 cm (12 to 20 in.) under the lighting of VAE-PII-1, Section 9.5.2. Any other medium: criteria approved in writing by the Certifying Level III before use.

8.9.3 Method Applicability

8.9.3.1 Table 8.9-2 identifies the contrast capability each method depends on. Because every person completes four of the five tests, each certification is supported by both color and shades-of-gray results. The table is used to set restrictions under §8.9.6 when a person does not pass a test.

Table 8.9-2 — Contrast Capability by Method

Method	Color (Tests 3 or 4)	Shades of Gray (Test 5)	Basis
RT: film, CR, DR	Not required	Required	Density and gray-level differences in the image, including IQI wire visibility
UT: thickness (UT-IIA, UT-IIT)	Not required	Not required	Numeric thickness readout. The Certifying Level III may require Test 3 or 4 for instruments with colored displays.
UT: flaw detection (A-scan)	Required	Not required	Colored gates, cursors, and display elements
PAUT, TOFD, AUT	Required	Required	Color-palette and gray-scale imaging
MT: visible	Required	Not required	Particle color against the part surface or contrast coating
MT and PT: fluorescent	Required	Not required	Yellow-green indications under UV-A
PT: visible	Required	Not required	Red indications on white developer
VT	Required	Required	Discoloration, heat tint, corrosion product, and coating condition
ET	Required	Not required	Colored impedance-plane and strip-chart displays
Other methods	As determined by the Certifying Level III	As determined by the Certifying Level III	Recorded in the certification file

8.9.4 Frequency

8.9.4.1 Vision acuity tests shall be completed at initial assignment and at intervals not exceeding 12 months. The examination expires 12 months after the examination date; for example, an examination given on March 10, 2026, expires on March 10, 2027. This is more restrictive than the end-of-month expiration of SNT-TC-1A (2024), 8.2.3, and the five-year color interval of 8.2.2 (Annex A).

8.9.4.2 The examination shall be current when certification examinations are taken and at all times while the person performs NDT.

8.9.5 Recording

8.9.5.1 Each test in Table 8.9-1 shall be recorded on its own line of Form VAE-PII-1, with the test medium and its identification number, the measured result, whether a corrective aid was used, and a Pass or Fail entry.

8.9.5.2 No line shall be left blank, and a required test shall not be marked N/A. A result entered for one test shall not be used to represent another test. N/A may be entered only for a field that does not apply, with a written reason approved by the Certifying Level III. Result fields shall not be pre-printed or pre-filled on the form; the examiner shall enter each measured value at the time of the examination.

8.9.5.3 The person who administers the examination shall print, sign, and date the record and identify the title under which the examination was administered. A Certifying Level III who did not administer the examination may countersign as reviewer but shall not sign as examiner.

8.9.5.4 The Certifying Level III shall review each completed record for completeness before the certification record is issued or updated, and shall update the vision block of the certification record to the new examination date and results.

8.9.6 Failure and Restrictions

8.9.6.1 A person who does not pass Test 1 shall not perform NDT.

8.9.6.2 A person who does not pass Test 2 shall be evaluated by the Certifying Level III, who shall document any restriction on the certification record.

8.9.6.3 A person who does not pass Test 3, 4, or 5 shall not perform any method for which Table 8.9-2 requires the failed capability, unless the person passes a method-specific performance demonstration under §8.9.6.4.

8.9.6.4 The Certifying Level III may qualify a person who does not pass Test 3, 4, or 5 through a method-specific performance demonstration. The person shall correctly identify indications on actual method media under representative conditions, such as penetrant indications on developer, magnetic particle indications, or IQI wires and discontinuities on radiographic images. The media, conditions, and results shall be documented, approved by the Certifying Level III, and attached to Form VAE-PII-1. Any resulting restriction shall be stated on the certification record.

8.9.7 Lapse

8.9.7.1 When an examination expires, all of the person's certifications are suspended under §11.1.1.1 until a passing examination meeting this section is recorded.

8.9.8 Transition from Record of Visual Acuity, Rev. 0

8.9.8.1 A Rev. 0 record remains valid until its expiration date only for a test on which it shows a measured result that meets Table 8.9-1. A far-vision entry must show 20/30 or better.

- 8.9.8.2 After the effective date of Revision 03, a person shall complete any missing or unmet test before next performing work that depends on it: Tests 1 and 2, before next performing any NDT; Tests 3 or 4, and 5, before next performing a method for which Table 8.9-2 requires that capability. For Test 5, this includes RT interpretation (film, CR, or DR), PAUT, TOFD, AUT, and VT.
- 8.9.8.3 All active personnel shall complete any test not recorded with a measured result within 30 calendar days of the effective date of Revision 05.

9.0 **CERTIFICATION**

9.1 **General**

- 9.1.1 Certification of NDT personnel at every level is the responsibility of PII.
- 9.1.2 Certification is based on satisfactory demonstration of qualification under Sections 6.0, 7.0, and 8.0.
- 9.1.3 PII may engage an Outside Agency to provide Level III services, including Corporate Level III services. The Quality Manager shall review and document the Outside Agency's qualifications before its services are used. PII retains responsibility for certification: certifications are issued by PII and signed by the PII Certifying Authority.

9.2 **Responsibility for Certification**

- 9.2.1 Level I, Level II, and Level II-Limited: the Certifying Level III verifies the candidate's qualifications and signs the certification record, and the Certifying Authority signs it.
- 9.2.2 Level III: the Corporate Level III verifies the candidate's qualifications and signs the certification record, and the Certifying Authority signs it. The qualifications of the Corporate Level III are verified by another Level III certified in the method, who may be an Outside Agency.
- 9.2.3 When one person holds both the verifying Level III position and the Certifying Authority position, one signature identified with both titles satisfies §9.2.1 or §9.2.2.

- 9.3 **Verification.** Before signing, the Certifying Level III shall verify the accuracy and completeness of the certification documentation. Appendix 5 may be used for this purpose.

9.4 **Date of Certification and Expiration**

- 9.4.1 A certification shall not be signed until every education, training, experience, examination, and vision requirement has been met and documented.
- 9.4.2 The date of certification is the date the Certifying Authority signs the certification record.

- 9.4.3 A certification expires on the fifth anniversary of the date of certification, unless an addendum under §1.4.2 requires a shorter period or the certification is revoked or ends earlier. For example, a certification signed on March 10, 2026, expires on March 10, 2031. This is more restrictive than the end-of-month expiration of SNT-TC-1A (2024), 12.2 (Annex A).
- 9.4.4 Expiration on the fifth anniversary meets the requirement of API 1104, 8.4.2, that all levels be recertified at least every five years.
- 9.4.5 A certification issued before Revision 05 keeps the certification and expiration dates shown on it (§1.6.1).
- 9.4.6 **Documentation of process use.** Records showing that each certified individual continues to perform the method, such as timesheets, inspection reports, and logbooks, shall be maintained and used to apply §11.1.1.2.
- 9.5 The PII office that maintains certification records shall keep: a copy of each revision of this Written Practice under which certifications were issued; the personnel certification records; outlines of training courses conducted; and attendance records for those courses.
- 9.6 **Personnel Records and Certificates**
 - 9.6.1 The certification record of each certified individual shall contain all current and previous documentation needed to verify the certification, including:
 - 9.6.1.1 Full legal name of the certified individual.
 - 9.6.1.2 Date of hire by PII.
 - 9.6.1.3 Level of certification, method and technique as applicable, limitations stated in the wording of Table 4-1, and any ASME Code Case relied on (§5.10).
 - 9.6.1.4 The basis of certification: PII-WP-1 and its revision, and SNT-TC-1A with the four-digit year of its edition.
 - 9.6.1.5 Educational background, with evidence.
 - 9.6.1.6 A statement that training and experience have been completed in accordance with this Written Practice, with the supporting training and experience records.
 - 9.6.1.7 Results of the visual acuity examinations for the current certification period, including, for the current examination, the examination date, expiration date, examiner, the result of each test in Table 8.9-1, and any restriction under §8.9.6, as recorded on Form VAE-PII-1.
 - 9.6.1.8 Current examination copies, or evidence of successful completion of the examinations, including ASNT results letters and certificates accepted under §8.4 or §8.5.
 - 9.6.1.9 Other evidence of qualification, such as limited certification approvals (§6.6), certificate acceptance determinations (§8.4, §8.5), central certification evaluations (§8.6), and Statements of Fact (§6.5.3).

- 9.6.1.10 The grade of each examination and the composite grade.
- 9.6.1.11 Dates of certification and recertification.
- 9.6.1.12 Certification expiration date.
- 9.6.1.13 Dates and results of technical performance evaluations, and the date the next one is due.
- 9.6.1.14 Signature of the Level III who verified the candidate's qualifications.
- 9.6.1.15 Signature of the Certifying Authority.
- 9.6.1.16 For Level III: the Appendix 4 procedure evaluation checklist, the Level II practical demonstration record (§8.3.6), and, where applicable, the Appendix 2 technique records.

9.6.2 **Certificates and wallet cards.** Each certificate and wallet card issued by PII shall show:

- 9.6.2.1 The legal name of the employer, Prime Inspections, Inc., followed by the document number and revision of the Written Practice under which the certification is issued (for example, "PII-WP-1, Revision 05").
- 9.6.2.2 "SNT-TC-1A" followed by the four-digit year of the edition this Written Practice is written to: "SNT-TC-1A (2024)."
- 9.6.2.3 A statement that the certification is issued in accordance with the Prime Inspections, Inc. Written Practice.
- 9.6.2.4 The full legal name of the certified individual in the ISO basic Latin alphabet; other characters may be added where customary for the individual's language.
- 9.6.2.5 Level of certification, method and technique as applicable, and limitations in the wording of Table 4-1. Limitations may include restrictions on product forms, industry sectors, codes, standards, or procedures.
- 9.6.2.6 The full printed legal name and signature of the Level III who verified the qualifications and of the Certifying Authority (one signature where §9.2.3 applies), and the ASNT Level III certificate number of each signer who holds one.
- 9.6.2.7 Dates of certification and expiration, and the date the next technical performance evaluation is due.
- 9.6.2.8 Every field shall be completed at the time of signing, with no blank to be filled in later by others. When any entry must change, a new certificate or wallet card shall be issued; entries shall not be altered by hand.
- 9.6.2.9 The ASNT name, acronym, and marks shall be used only as permitted by ASNT Policy G-14. A PII certificate shall not state or imply that the individual is certified by ASNT.

9.6.2.10 Appendix 3 provides the certification record format.

9.6.3 Level III certification examinations are maintained at the corporate office.

9.6.4 Individual NDT personnel records shall be made available on request. In addition to the content of §9.6.1, they shall include:

9.6.4.1 Records of qualification and experience before initial certification, kept for as long as the person is certified and for the retention period of §15.2.

9.6.4.2 Results of current examinations, traceable to the version of the examination administered, and a master copy of each examination version. When ASNT certification is used for Level III qualification, the current ASNT certification letters for each method may be used for the Basic and Method examinations.

9.6.4.3 Records of vision examinations, noting corrective aids if used, kept for the current and preceding certification periods.

9.6.4.4 The signed certification record and each superseded certification record.

9.7 **Certification Package.** Before certification is processed, the documentation of each candidate's qualifications shall be on file and reviewed. Appendix 5, Certification Package Checklist, is provided to track the documentation; its use is recommended but not required.

10.0 TECHNICAL PERFORMANCE EVALUATION

10.1 Level I, Level II, and Level II-Limited.

10.1.1 Each certified individual shall be re-evaluated by a technical performance evaluation (TPE) in each method and technique of certification. The TPE is a practical examination that follows §8.2.4 for format, specimens, checklist, and grading, and is administered by a Level III certified by PII in the method or by an Outside Agency Level III certified in the method and accepted under §9.1.3.

10.1.2 TPEs shall be performed at intervals not exceeding 30 months, measured from the date of certification or recertification or from the previous TPE. In every case a passing TPE shall be completed during the certification period before the individual is recertified.

10.1.3 The Certifying Level III may require an additional TPE at any time, including when there is evidence of unsatisfactory performance.

10.2 **Level III.** A Level III who performs NDT or evaluates NDT results in a method shall complete TPEs in that method under §10.1, administered by another Level III certified in the method.

10.3 **Grading.** A TPE is passed when it meets §8.7.5.2 and §8.2.4.6.

- 10.4 **Failure.** Certification in the method or technique is suspended on the date of a failed TPE (§11.1.1.3). The individual shall complete documented additional training determined by the Certifying Level III and pass a TPE on different specimens before the suspension is lifted. If that TPE is also failed, the certification in the method or technique is revoked, and certification may be regained only by examination under §14.2.
- 10.5 **Records.** The TPE record shall include the date, specimens, procedure and revision, checklist, results, and the administering Level III's signature. The date of the next TPE shall be entered on the certification record.

11.0 **INTERRUPTED SERVICE**

11.1 **Suspension**

- 11.1.1 An individual's certification is suspended when any of the following occurs:
- 11.1.1.1 The visual acuity examination interval exceeds 12 months. All certifications are suspended, and are reinstated on the date a passing examination meeting §8.9 is recorded; or
 - 11.1.1.2 The individual has not performed NDT in the method or technique for 12 consecutive months; or
 - 11.1.1.3 The individual's performance in the method or technique is found deficient for documented reasons, including a failed TPE; or
 - 11.1.1.4 A required TPE is overdue; or
 - 11.1.1.5 The individual's service is interrupted, as by extended leave or military service, and any of the conditions above results.
- 11.1.2 Each suspension shall be recorded on the certification record, and the Quality Manager shall notify Operations management before further work is assigned. A suspended individual shall not perform, interpret, evaluate, or report NDT in the suspended method or technique.
- 11.1.3 Suspension does not extend the expiration date of a certification.
- 11.2 **Requirements for reinstatement after suspension.** A suspended certification may be reinstated by the Certifying Level III only when the requirement in Table 11-1 has been met and documented. A certification that expires during a suspension requires recertification under Section 12.0.

Table 11-1 — Reinstatement After Suspension

Cause of Suspension	Requirement Before Reinstatement
Vision examination lapse (§11.1.1.1)	Pass the vision examination of §8.9. Reinstatement is effective on the examination date.
12 months without performing the method (§11.1.1.2)	Pass a practical examination under §8.2.4, administered by a Level III, in each suspended technique.
Deficient performance or failed TPE (§11.1.1.3)	Complete documented additional training determined by the Certifying Level III and pass a TPE on different specimens (§10.4).
Overdue TPE (§11.1.1.4)	Pass the TPE.
Interrupted service (§11.1.1.5)	Meet the requirement for each condition that resulted.

12.0 **RECERTIFICATION**

- 12.1 All levels shall be recertified at intervals not exceeding five years, before the expiration date set by §9.4.3. A shorter interval required by a contract or specification shall be applied by addendum under §1.4.2.
- 12.2 **Basis of recertification.** Recertification is by examination, as follows:
 - 12.2.1 Level I, Level II, and Level II-Limited: the General, Specific, and Practical examinations of §8.2, with the passing grades of §8.7.5. A current ASNT certificate may again be accepted in place of the General examination under §8.4.
 - 12.2.2 Level III: the Specific examination of §8.3.4; the Method examination, unless a current ASNT certificate is accepted under §8.5; and the procedure preparation of §8.3.5 if it has not yet been met for PII in the method. A Level III who performs NDT or evaluates NDT results shall also have a current TPE under §10.2. The Basic examination is not repeated while a Level III certification from PII or ASNT has been held continuously.
 - 12.2.3 The vision examination shall be current. For Level I, Level II, and Level II-Limited, a passing TPE (§10.1.2) shall have been completed during the certification period; for Level III, §10.2 applies.
- 12.3 **Timing.** For continuous certification, recertification shall be completed before the certification expires. The date of recertification is the date the Certifying Authority signs the new certification record, and the new expiration date is set under §9.4.3. An individual whose certification has expired shall not perform NDT in that method until recertified.
- 12.4 **Failure.** Failure of a recertification examination revokes the certification in that method or technique on the date of failure. Re-examination shall meet §8.8.
- 12.5 When there is evidence that a certified individual's performance is unsatisfactory, the Certifying Level III may require re-examination at any time under this Written Practice, and the individual may be recertified, suspended, or have the certification revoked.
- 12.6 When a technique is added to Table 3-1 and a Level III is assigned to perform examinations using it, that Level III shall complete the applicable training, examinations, and experience of Table A1-1 and Appendix 2 before the Level III's next recertification date in the method.
- 12.7 A Level III certified before Revision 05 shall meet §8.3.5 at the next recertification and §8.3.6 before the next recertification date.

13.0 **TERMINATION**

- 13.1 A PII certification is revoked when the individual's employment with PII ends.
- 13.2 An individual certified by a previous employer may be certified by PII to the former level by examination under Section 8.0 when all of the following are met to the satisfaction of the Certifying Level III:
 - a. The individual provides documented proof of the prior certification, with training and experience comparable to this Written Practice;

- b. The individual was working in the certified capacity within six months before the prior employment ended; and
 - c. The individual is being certified by PII within six months after the prior employment ended.
- 13.3 An individual who does not meet §13.2(b) or (c) shall, before examination, complete documented refresher training determined by the Certifying Level III, covering at least: calibration and standardization; operation of the test equipment; PII procedures; interpretation and evaluation of results; and the applicable codes, standards, and specifications. The Certifying Level III sets the length of the training.
- 13.4 The vision examination of §8.9 shall be passed before any examination under this section.

14.0 REINSTATEMENT

- 14.1 An individual whose PII certification was revoked because employment ended may be reinstated to the former level without new examination when all of the following are met:
- a. PII has maintained the certification records required by §9.6;
 - b. The certification did not expire while the individual was not employed by PII;
 - c. The individual is reinstated within six months after employment ended; and
 - d. The individual's vision examination is current, and no TPE became overdue while the individual was not employed.
- 14.2 An individual who does not meet §14.1, or whose certification was revoked for unsatisfactory performance, may be certified again only by examination: for Level I, Level II, and Level II-Limited, the General, Specific, and Practical examinations; for Level III, the examinations of §12.2.2 and the Level II practical demonstration of §8.3.6 when applicable.
- 14.3 Reinstatement of a suspended certification is governed by §11.2, not by this section.

15.0 RECORDS

- 15.1 Records required by this Written Practice are quality records under PII-QC-1. They shall be kept at the corporate office in a manner that protects them from loss, damage, and alteration. Controlled electronic records are acceptable.
- 15.2 **Retention.** Unless a contract or referencing code requires a longer period:
- 15.2.1 Certification records and supporting qualification records (§9.6.1 and §9.6.4.1): for at least five years after the individual's last PII certification expires or is revoked.
 - 15.2.2 Examination papers, practical examination checklists, and grading keys: for the current and preceding certification periods.
 - 15.2.3 Vision examination records: for the current and preceding certification periods (§9.6.4.3).

- 15.2.4 Superseded revisions of this Written Practice: for as long as any certification record issued under them is retained.
- 15.3 Records shall be made available to Customers and auditors on request through the Quality Manager. Personal information shall be protected.

ANNEX A

Technical Rationale for Modifications to SNT-TC-1A (2024) Recommendations

SNT-TC-1A (2024), paragraph 1.4, permits an employer to modify its detailed recommendations, provided the basic provisions of training, experience, examination, certification, and recertification are kept, and calls for the technical rationale to be given in an annex to the written practice. Each modification made by this Written Practice is listed below. Recommendations adopted without change are not listed.

No.	SNT-TC-1A (2024)	Recommendation (summarized)	PII Requirement	Type	Technical Rationale
1	8.2.1	Near vision: Jaeger No. 2 or equivalent at not less than 12 in., one eye, natural or corrected, annually.	Jaeger J1 at not less than 12 in., one eye, annually (§8.9, Test 1).	More restrictive	API 1104 (21st Ed.), 8.4.3.1, and ASME Section V, Article 9, T-923, require J1 for pipeline NDT and ASME visual examination personnel. One standard applies to all PII personnel.
2	8.2.2	Color contrast differentiation among the colors or shades of gray used in the method, at initial certification and every five years.	Red/green, blue/yellow, and shades of gray tested for every person, annually (§8.9, Tests 3 to 5).	More restrictive	One annual examination covering every contrast capability is simpler to administer and audit, supports personnel who work in several methods, and gives Customers a recorded result for each capability.
3	8.2.3	Vision examinations expire on the last day of the month of expiration.	The examination expires 12 months after the examination date (§8.9.4.1).	More restrictive	Customer specifications commonly require a vision examination completed within the previous 12 months. A fixed 12-month expiration meets them without a separate tracking rule.
4	Not addressed	No far-vision requirement.	Far vision 20/30 or better, one eye (§8.9, Test 2).	Addition	Field personnel read gauges, markings, and indications beyond arm's length. Retained from PII's prior practice.
5	Table 6.3.1A, Note 3	Training hours may be adjusted for the candidate's education.	Training hours are not reduced for education (§6.3.8).	More restrictive	All candidates receive the same training content.
6	6.3.2	Level III education and experience criteria may be partly replaced by experience as a certified Level II or comparable assignments, as the written practice defines.	The replacement option is not used (§6.4).	More restrictive	Level III eligibility is determined only by the criteria of §6.4.1 to §6.4.3.
7	6.3.1.2, 6.3.1.3; Table 6.3.1B	Limited certifications and hours given for RT interpretation and UT thickness measurement.	MT-IIL, PT-IIL, UT-IIL, ET-IIL, and ET-IIG added, with hours in Table A1-2.	Addition	ASME Section V, T-120(k), permits limited certification on fewer hours when the limits are stated in the written practice and on the certification. MT-IIL and PT-IIL use the full method hours. UT-IIL uses UT Level I hours because angle-beam examination is excluded. ET-IIL and ET-IIG use ECT Level I hours for tasks of limited scope.

PII-WP-1 Rev. 05

No.	SNT-TC-1A (2024)	Recommendation (summarized)	PII Requirement	Type	Technical Rationale
8	Table 8.3.3	Minimum questions, including digital thickness measurement Specific 10 and RT interpretation by a certified RT Level I, Level II General 20 and Specific 15.	UT-IIT Specific 15; RT-IIL candidates take the Level II RT General examination (40) and a Specific examination of 20 (film) or 30 (DR/CR); CR and DR Specific 30 (Table 8-1).	More restrictive	CR and DR values, including DR/CR interpretation, meet ASME Section V, Mandatory Appendix II, Table II-122.1. Interpretation-only personnel apply the same acceptance criteria as Level II radiographers and are examined to the same depth.
9	8.6.1.1.1; 8.6.3.1	Level III Basic examination: 15 questions on SNT-TC-1A. Level III Specific examination: 20 questions.	Basic: 20 questions on SNT-TC-1A and this Written Practice (§8.3.2). Specific: 30 questions (§8.3.4).	More restrictive	Covers administration of PII's program and the procedures, codes, and specifications used in PII's work.
10	8.5.2	At least one flawed specimen tested in the Practical examination.	Two flawed specimens per method plus one per technique (§8.2.4.3); at least five for CR and DR (Appendix 2, §A2.4.1).	More restrictive	Samples more of the technique variables, such as exposure arrangement, thickness, and diameter.
11	8.3.4, 8.4.4, 8.5.6, 8.6.3.2, 8.6.4.3, 8.6.5	ASNT certificates may be accepted for the General, Specific, and Practical examinations and for the Level III Specific and Practical examinations; a Level III certificate may also satisfy the Level II practical of 8.5.5.	Accepted only for the Level I and II General examination and the Level III Basic and Method examinations (§8.4, §8.5).	More restrictive	ASME Section V, T-120(e)(1)(-b), makes 8.4.4, 8.5.6, 8.6.3.2, and 8.6.4.3 inapplicable to specific and practical examinations. PII applies this to every certification (§1.3).
12	8.6.4.1	Documented experience in preparing procedures may take the place of the Level III written Practical examination.	A procedure is always prepared and evaluated by checklist (§8.3.5).	More restrictive	Required by ASME Section V, T-120(e)(1)(-d), applied to every Level III (§1.3).
13	8.5.4.2, 8.5.5.2	The written practice defines the acceptable detection rate and the maximum number of false calls.	Detection of 100 percent of designated discontinuities; not more than one false call and, for Level II, one miscall per specimen (§8.2.4.6).	Defined as recommended	One false call or miscall allows for a single marginal call without accepting a pattern of over-calling or misclassification.
14	8.7.1	Wait at least 30 days or receive additional training before re-examination.	Documented additional training is always required, and the re-examination differs by at least 25 percent (§8.8).	More restrictive	Targets the deficient areas and prevents re-use of a failed examination.
15	10.2	Technical performance evaluation performed periodically as defined in the written practice.	Every 30 months or less, and before every recertification (§10.1.2).	Defined as recommended	Two practical evaluations in each five-year cycle. ASME Section V, T-120(e)(1)(-c), makes the evaluation mandatory before recertification.
16	12.1	Recertification by evidence of continuing satisfactory performance or by examination.	Recertification by examination (§12.2).	More restrictive	Examination gives objective evidence of continued knowledge and skill.
17	Table 6.3.1A (UT)	Level II UT experience stated for the method as a whole.	At least 420 of the 840 method hours in angle-beam examination; up to half of those from PAUT angle-beam work (Table A1-1, Note 12).	Addition	Ensures weld examination experience with angle-beam techniques. PAUT shear-wave examination develops the same skills.

No.	SNT-TC-1A (2024)	Recommendation (summarized)	PII Requirement	Type	Technical Rationale
18	Table 6.3.1A (VT)	VT experience gained in the VT method.	Up to 50 percent of VT hours from MT or PT work (up to 5 percent from RT); up to 100 percent from VT functions performed as a certified CWI or API 510, 570, or 653 inspector; hours documented separately and verified by a VT Level II or Level III (Table A1-1, Notes 13 and 14).	Modification	Visual examination of the surface is an integral step of MT and PT, and the principal function of CWI and API inspector work. Verification by a VT Level II or Level III provides the qualified direction that experience requires. Hours are not credited to more than one method.
19	4.1	Three basic levels, which the employer may subdivide.	Level II-Limited designation and the Instructor qualification added (§4.1).	Addition	Level II-Limited is a subdivision permitted by 4.1. Instructor is a qualification, not a certification level.
20	6.1	Education sufficient for qualification; no minimum stated for Level I and Level II.	High school diploma, GED, or equivalent for every level (§6.2).	Addition	Written examinations, procedures, and reports require the reading and arithmetic of secondary education.
21	8.0	No time limit for completing a set of examinations.	All examinations for one certification completed within 60 days (§8.1.9).	Addition	Keeps the examination set representative of the candidate's knowledge at one time and closes open examination files.
22	8.6.4.2, 8.6.4.3, 8.6.5	Level II practical demonstration for a Level III who performs NDT or evaluates results; ACCP or ASNT 9712 Level III certificates may satisfy it.	Also required of a Level III who administers practical examinations or TPEs; ASNT certificates not accepted in its place (§8.3.6.1, §8.3.6.3).	More restrictive	ASME Section V, T-120(e)(1)(-1), requires the demonstration of a Level III who administers ASME practical examinations, and (-b) excludes 8.6.4.3. PII applies both to every Level III (§1.3).
23	9.5.3, 12.2	Certifications expire five years from the date of certification, on the last day of the month of expiration.	Certifications expire on the fifth anniversary of the date of certification (§9.4.3).	More restrictive	API 1104, 8.4.2, requires recertification at least every five years; one expiration rule serves all work and matches PII's certificates.

APPENDIX 1

Training and Experience Requirements

Table A1-1 — Initial Training and Experience, Level I and Level II

Method	Level	Technique	Training (h)	Minimum in Method or Technique (h)	Total NDT (h)
Acoustic Emission	I	—	40	210	400
	II	—	40	630	1200
Electromagnetic	I	ACFM	40	210	400
	II	ACFM	40	630	1200
	I	Eddy Current (ECT)	40	210	400
	II	Eddy Current (ECT)	40	630	1200
	I	Remote Field (RFT)	40	210	400
	II	Remote Field (RFT)	40	630	1200
Guided Wave	I	—	40	240	460
	II	—	40	240	460
Laser Methods	I	Profilometry	8	70	130
	II	Profilometry	24	140	260
Leak Testing	I	Bubble (BT)	2	3	15
	II	Bubble (BT)	4	35	80
	I	Pressure Change (PCT)	24	105	200
	II	Pressure Change (PCT)	16	280	530
	I	Halogen Diode (HDLT)	12	105	200
	II	Halogen Diode (HDLT)	8	280	530
	I	Mass Spectrometer (MSLT)	40	280	530
	II	Mass Spectrometer (MSLT)	24	420	800
Liquid Penetrant	I	—	4	70	130
	II	—	8	140	270
Magnetic Flux Leakage	I	—	16	70	130
	II	—	12	210	400
Magnetic Particle	I	—	12	70	130
	II	—	8	210	400
Radiographic	I	Film radiography	40	210	400
	II	Film radiography	40	630	1200
	I	Computed Radiography (CR) (App. 2)	40	210	400
	II	Computed Radiography (CR) (App. 2)	40	630	1200
	I	Computed Tomography (CT)	40	210	400
	II	Computed Tomography (CT)	40	630	1200
	I	Digital Radiography (DR) (App. 2)	40	210	400
	II	Digital Radiography (DR) (App. 2)	40	630	1200

Method	Level	Technique	Training (h)	Minimum in Method or Technique (h)	Total NDT (h)
Thermal/Infrared	I	All techniques	32	210	400
	II	Building Diagnostics	34	1260	1800
	II	Electrical and Mechanical	34	1260	1800
	II	Materials Testing	34	1260	1800
Ultrasonic	I	UT	40	210	400
	II	UT	40	630	1200
	II	Phased Array (PAUT) (App. 2)	80	320	Note 10
	II	Time-of-Flight Diffraction (TOFD) (App. 2)	40	320	Note 10
	II	Full Matrix Capture (FMC) (App. 2)	80	320	Note 10
Visual	I	—	8	70	130
	II	—	16	140	270

Values are those of SNT-TC-1A (2024), Table 6.3.1A. The CR, DR, PAUT, TOFD, and FMC values agree with ASME BPVC Section V (2025), Article 1, Mandatory Appendix II, Tables II-121-1 and II-121-2.

Notes to Table A1-1

- Level II hours are in addition to the Level I hours. A candidate certified directly to Level II shall have at least the sum of the Level I and Level II hours (§6.3.4).
- Level III training and experience: §6.4.
- Training hours are not reduced for education level (§6.3.8).
- MT training may be credited toward MFL training. A person who has completed MT Level I and Level II training (20 hours) requires 8 hours of MFL-specific training to reach the 28-hour MFL Level II total.
- A person certified in an ET technique whose initial training in that technique was a full course may have the training for another ET technique at the same level reduced by up to 40 percent, and the experience for another ET technique at the same or the next level reduced by up to 50 percent. The Certifying Level III determines and documents the reduction.
- Experience may be gained in more than one method at the same time toward total NDT hours, but the minimum hours shall be met separately for each method, and the same hours shall not be credited to more than one method's minimum (§6.3.5).
- A person certified in an RT technique whose initial training in that technique was a full course needs at least 24 hours of additional training, of which at least 16 hours are equipment familiarization, to qualify in film radiography or CT at the same level; the experience may be reduced by up to 50 percent. For CR and DR, Appendix 2, §A2.2.3 and §A2.2.4, apply instead.
- Radiation safety training is required in addition to RT method training (§7.6).
- A person certified in one thermal/infrared technique whose initial training in that technique was a full course needs at least 20 hours of additional training, of which at least 16 hours are technique familiarization, to qualify in another technique at the same level; the experience may be reduced by up to 50 percent.
- PAUT, TOFD, and FMC require UT Level II certification as a prerequisite; no separate total NDT hours apply. Appendix 2 applies.
- Supplemental hardware and software training for automated and semi-automated PAUT, TOFD, and FMC applications: Appendix 2, §A2.2.6.
- Of the 840 UT method hours required for Level II (210 Level I plus 630 Level II), at least 420 hours shall be angle-beam examination. Up to 50 percent of those angle-beam hours may be documented PAUT experience using shear-wave or other angle-beam modes (Annex A, No. 17).
- For VT Level I or Level II, up to 50 percent of the required VT experience may be gained while performing MT or PT, and up to 5 percent while performing RT, under the direction of a person certified as Level II or Level III in that method, with a combined total not exceeding 50 percent. The VT portion of these hours shall be documented separately, verified by a Level II or Level III certified in VT, and credited to only one method (Annex A, No. 18).
- For VT Level I or Level II, up to 100 percent of the required experience may be gained performing VT functions as a certified CWI or API 510, 570, or 653 inspector, when those hours are documented separately from other inspector

activities and verified by a Level II or Level III certified in VT through review of the inspection records (Annex A, No. 18).

15. Experience is normally gained after training is documented. Experience gained before training is complete may be credited at the discretion of the Certifying Level III when it is documented.

Table A1-2 — Initial Training and Experience, Level II-Limited Certifications

Designation	Scope (Table 4-1)	Starting Point	Training (h)	Experience in Technique (h)	Total NDT (h)	Exams (Table 8-1)
MT-IIL	Yoke only	None	20	280	530	MT
PT-IIL	Visible penetrant only	None	12	210	400	PT
UT-IIL	Straight beam (0°) only	None	40	210	400	UT
UT-IIA	A-scan thickness measurement	Trainee	24	175	—	UT-IIA
UT-IIT	Digital thickness measurement	Trainee	8	40	—	UT-IIT
RT-IIL (Film)	Film interpretation	Non-radiographer	40	220	—	RT-IIL
RT-IIL (Film)	Film interpretation	Certified RT Level I	24	220	—	RT-IIL
RT-IIL (DR/CR)	DR/CR image interpretation	Non-radiographer	40, plus 16 (Note 2)	220	—	RT-IIL
RT-IIL (DR/CR)	DR/CR image interpretation	Certified RT Level I	24, plus 16 (Note 2)	220	—	RT-IIL
ET-IIL	Data collection only	None	40	210	400	ECT
ET-IIG	Ferrous gear surface inspection	None	40	210	400	ECT

Notes: (1) UT-IIA, UT-IIT, and RT-IIL hours are those of SNT-TC-1A (2024), Table 6.3.1B, which states experience in the technique only. (2) DR/CR interpreters shall also complete at least 16 hours of manufacturer-specific software training for each viewing and analysis software used (Appendix 2, §A2.2.5), and are examined under Table 8-1 and §8.2.4.3(d). (3) MT-IIL, PT-IIL, UT-IIL, ET-IIL, and ET-IIG hours are set by PII (Annex A, No. 7). (4) Each limited certification requires approval by the Certifying Level III (§6.6).

APPENDIX 2

Supplemental Requirements for CR, DR, PAUT, TOFD, and FMC

Restates the requirements of ASME BPVC Section V (2025), Article 1, T-120(g) and Mandatory Appendix II, in PII wording. Where PII is more restrictive, the text says so.

A2.1 Applicability. This appendix applies to every certification in CR, DR, PAUT, TOFD, or FMC issued under this Written Practice. Its requirements are in addition to Sections 6.0 through 8.0. An RT-IIL (DR/CR) interpretation certification uses the training and experience hours of Table A1-2, as ASME Section V, T-120(k), permits for limited certifications, and the examinations of Table A2-3 and §8.2.4.3(d).

A2.2 Training and Experience

A2.2.1 The minimum hours for a person without prior qualification in the technique are given in Table A2-1 (CR and DR) and Table A2-2 (PAUT, TOFD, and FMC).

Table A2-1 — CR and DR Initial Training and Experience

Technique	Level	Training (h)	Minimum in Technique (h)	Total NDT (h)
Computed Radiography (CR)	I	40	210	400
Computed Radiography (CR)	II	40	630	1200
Digital Radiography (DR)	I	40	210	400
Digital Radiography (DR)	II	40	630	1200

Table A2-2 — PAUT, TOFD, and FMC Additional Training and Experience (Level II)

Technique	Training (h)	Minimum in Technique (h)	Prerequisite
Phased Array (PAUT)	80	320	UT Level I and Level II training and experience
Time-of-Flight Diffraction (TOFD)	40	320	UT Level I and Level II training and experience
Full Matrix Capture (FMC)	80	320	UT Level I and Level II training and experience

A2.2.2 For CR and DR, a person shall first meet the Level I training and experience in the technique before qualifying as Level II in that technique. A person not certified in any RT technique who seeks Level II directly in CR or DR shall have at least the sum of the Level I and Level II hours in the technique.

A2.2.3 A person previously or currently certified in another RT technique, such as film, whose initial qualification in that technique used a full-course format, shall complete at least the following to qualify in CR or DR at the same level: additional training of 24 hours for Level I or 40 hours for Level II; and additional experience in the new technique of 105 hours for Level I or 320 hours for Level II.

A2.2.4 A person currently or previously certified as Level II in another RT technique by a full-course format who has not completed the 40 hours of §A2.2.3 may be certified as Level II in CR or DR after completing all of the following:

- a. 24 hours of training specific to the technique;
- b. 16 hours of manufacturer-specific hardware and software training for each system and software to be used; and
- c. A practical examination on at least ten specimens in total, covering the range of thicknesses, diameters, and exposure techniques used in PII procedures. Specimens beyond the five required by §A2.4.1 may be raw, unfiltered digital images supplied with the technique details, requiring only interpretation, evaluation, and documentation of results, and each shall contain at least one discontinuity; and
- d. The additional experience of §A2.2.3.

A2.2.5 **Manufacturer-specific training, CR and DR.** In addition to the training of Table A2-1, at least 16 hours of manufacturer-specific hardware and software training is required for each CR or DR system and software used. A person is qualified on a system when (a) the training is documented, whether given by the manufacturer or by a trainer approved by the Level III, and (b) the person has passed a practical examination or TPE on that system, graded under §8.2.4. The certification record shall identify each system and software.

A2.2.6 **Supplemental training, automated and semi-automated PAUT, TOFD, and FMC.** In addition to the training of Table A2-2, training is required for each acquisition or analysis software and each instrument or system used. Each course shall be at least 16 hours of lecture, demonstration, and hands-on work covering, as applicable: setup (focal laws, probe and wedge parameters, TOFD probe center spacing); calibration and encoder verification; scan plans and data acquisition; data-quality checks; analysis and sizing tools; and reporting. Training is complete when the student applies the technique to at least one flawed specimen and documents the results, graded as a practical examination. An examiner is qualified for an automated or semi-automated technique when the examiner has passed the practical examination of §A2.4.2 on the system and software to be used and any performance demonstration required by the referencing code or contract.

A2.3 **Training outlines.** The CP-105 (2020) topical outlines for CR, DR, PAUT, TOFD, and FMC are the minimum content. A person holding a valid Level I or Level II film radiography certification need not repeat the basic radiography physics segment of the CR or DR outline; the Certifying Level III shall document the exemption.

A2.4 Examinations

Table A2-3 — Minimum Number of Examination Questions

Technique	General, Level I	General, Level II	Specific, Level I	Specific, Level II
CR	40	40	30	30
DR	40	40	30	30

Technique	General, Level I	General, Level II	Specific, Level I	Specific, Level II
PAUT, TOFD, FMC	—	40	—	30

A2.4.1 CR and DR practical examinations, Level I and Level II, shall use at least five specimens representative of the techniques in PII procedures, including single-wall and double-wall exposure and single-wall and double-wall viewing as used, and a range of thicknesses and diameters. Each specimen shall contain at least two discontinuities. (ASME requires at least two specimens; PII requires five.)

A2.4.2 PAUT, TOFD, and FMC Level II practical examinations shall use at least two specimens, each containing at least two discontinuities, representative of the components and configurations to be examined and approved by the Level III.

A2.4.3 Written and practical examinations are graded under §8.2.4.5, §8.2.4.6, and §8.7.

A2.5 **Level III requirements.** A Level III responsible for training and qualifying personnel in CR, DR, PAUT, TOFD, or FMC shall (a) hold a current Level III certification in the method; (b) meet the Level II training and experience of §A2.2 and the examinations of §A2.4 in the technique; (c) have documented evidence of preparing NDE procedures to codes, standards, or specifications for the technique; and (d) demonstrate proficiency in evaluating results in the technique. A Level III who meets these requirements may perform examinations in the technique.

A2.6 **Records.** Training in each technique, including each manufacturer-specific or supplemental course by system and software, the examinations, and the evidence required by §A2.5 shall be kept in the certification record.

APPENDIX 3

NDT Record of Certification

PRIME INSPECTIONS, INC. — NDT RECORD OF CERTIFICATION

Certified in accordance with the Prime Inspections, Inc. Written Practice, PII-WP-1, Revision ____, written to SNT-TC-1A (2024)

EMPLOYEE DATA

Full Legal Name		Employee No.		Date of Hire	
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EDUCATIONAL BACKGROUND (HIGHEST LEVEL)

Level	Institution	Location	Date

CERTIFICATIONS

Method / Technique	Level	Limitations (Table 4-1 wording)	Date of Certification	Expiration Date	Next TPE Due	Code Case

EXAMINATION GRADES

Method / Technique	General (score / date)	Specific (score / date)	Practical (score / date)	Composite	Basis (PII exam or ASNT certificate No.)
Level III Only: Method	Basic (score / date or ASNT No.)	Method (score / date or ASNT No.)	Procedure Checklist, App. 4 (% / date)	Level II Practical Demonstration, §8.3.6 (technique / date)	

OTHER PROFESSIONAL CERTIFICATIONS

Certification	Number	Original Date	Expiration

TRAINING

Course	Provider / Instructor	Hours	Date

EXPERIENCE

Employer	From – To	Methods, Techniques, and Hours

VISUAL ACUITY EXAMINATION (Form VAE-PII-1; PII-WP-1 §8.9)

Test	Requirement	Result	Corrective Aid (Y/N)	Pass	Fail
1. Near vision	Jaeger J1 at ≥ 12 in., one eye			☐	☐
2. Far vision	20/30 or better, one eye			☐	☐
3. Color, red/green	Ishihara or HRR (Table 8.9-1)			☐	☐
4. Color, blue/yellow	HRR or D-15 (Table 8.9-1)			☐	☐
5. Shades of gray	5 of 7 steps, or Köhler 20 of 25			☐	☐
Exam Date		Expires		Examined By	
Restrictions					

CERTIFICATION

The individual named above is certified in the methods, techniques, levels, and limitations shown, in accordance with the Prime Inspections, Inc. Written Practice. Each certification expires on the date shown or when employment with Prime Inspections, Inc. ends, whichever comes first.

Role	Printed Legal Name	ASNT Level III No.	Signature	Date
Level III who verified qualifications (Certifying Level III or Corporate Level III)				
Certifying Authority (date = date of certification, §9.4.2)				

Complete every field at signing; enter N/A only where a field does not apply. Do not alter entries. Issue a new record when any entry changes (§9.6.2.8).

APPENDIX 4

Level III Procedure Evaluation Checklist

Used to evaluate the written procedure prepared by a Level III candidate (PII-WP-1 §8.3.5; ASME BPVC Section V (2025), T-120(e)(1)(-d)). The evaluator is the Level III responsible for the method and shall not be the candidate.

Candidate		Method	
Procedure No. / Rev. / Title			
Referencing ASME code or standard and edition			
Certification	☐ Initial ☐ Recertification	Date Submitted	

No.	Item	T / P	Acceptable	Comment
1	Scope states the method, technique, materials or product forms, thickness and diameter range, and the referencing code and edition.	T	☐ Y ☐ N ☐ N/A	
2	References identify the governing code section and edition, the applicable Section V article, and the PII documents invoked.	T	☐ Y ☐ N ☐ N/A	
3	Personnel qualification requirements are stated: level, method, technique, limitations, and vision, per PII-WP-1.	T	☐ Y ☐ N ☐ N/A	
4	Equipment, materials, and consumables are specified as the article requires (for example instrument, search units or sources, film or detectors, particles or penetrants, lighting).	T	☐ Y ☐ N ☐ N/A	
5	Calibration and standardization, including reference standards, verification points, and intervals, meet the article.	T	☐ Y ☐ N ☐ N/A	
6	Every written-procedure requirement listed in the article's procedure table is addressed with a single value or a range of values, with essential and nonessential variables identified. (critical)	T	☐ Y ☐ N ☐ N/A	
7	Surface condition, surface preparation, and temperature limits are stated.	T	☐ Y ☐ N ☐ N/A	
8	Technique, coverage, scanning or exposure parameters, and sequence of examination are specified.	T	☐ Y ☐ N ☐ N/A	
9	Procedure qualification or demonstration is addressed where the referencing code or article requires it.	T	☐ Y ☐ N ☐ N/A	
10	Recording and evaluation levels and acceptance criteria are those of the referencing code section, with paragraph references. (critical)	T	☐ Y ☐ N ☐ N/A	
11	Record and report content meets Section V, T-190, and the article.	T	☐ Y ☐ N ☐ N/A	
12	Post-examination cleaning or demagnetization and safety requirements (including radiation safety) are stated where applicable.	T	☐ Y ☐ N ☐ N/A	
13	Instructions are clear, in a workable sequence, and can be followed in the field without undefined terms.	P	☐ Y ☐ N ☐ N/A	
14	Numeric values and units are correct and consistent, and no requirements conflict.	P	☐ Y ☐ N ☐ N/A	
15	Cross-references to paragraphs, tables, figures, forms, and other documents are correct and the documents exist.	P	☐ Y ☐ N ☐ N/A	
16	Required forms and report templates are provided or identified.	P	☐ Y ☐ N ☐ N/A	
17	Document control elements are present: number, revision, approval block, and revision history.	P	☐ Y ☐ N ☐ N/A	

T = technical adequacy; P = practical adequacy. Score = items marked acceptable ÷ applicable items × 100. The procedure passes with a score of at least 80 percent and both critical items acceptable. The score is the Level III Practical examination grade (§8.7.2).

Score (%)		Result	☐ Pass ☐ Fail	
Evaluator (printed)		ASNT Level III No.		

Signature		Date	
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APPENDIX 5

Certification Package Checklist

Candidate		Employee No.	
Method / Technique		Level	
Type	☐ Initial ☐ Recertification ☐ Limited	Certifying Level III	

No.	Item	Reference	Complete	Verified (initials / date)
1	Education credential on file	§6.2	☐ Yes ☐ N/A	
2	Training records meet Table A1-1 or A1-2 hours, with approved outline	§6.5, §7.0	☐ Yes ☐ N/A	
3	Experience records meet hours in method and total NDT, with supervisor	§6.3, §6.5	☐ Yes ☐ N/A	
4	Prior certification, Statement of Fact, or equivalence determination (if used)	§6.5.2, §6.5.3	☐ Yes ☐ N/A	
5	Current vision examination on Form VAE-PII-1, all five tests recorded	§8.9	☐ Yes ☐ N/A	
6	General examination graded and signed, or ASNT certificate accepted with documented determination	§8.2.2, §8.4	☐ Yes ☐ N/A	
7	Specific examination graded and signed	§8.2.3, §8.3.4	☐ Yes ☐ N/A	
8	Practical examination checklist, grading key, and results signed by the administering Level III (Level II)	§8.1.5, §8.2.4	☐ Yes ☐ N/A	
9	Composite grade calculated	§8.7	☐ Yes ☐ N/A	
10	Appendix 2 training, manufacturer-specific or supplemental training, and examinations (CR, DR, PAUT, TOFD, FMC)	App. 2	☐ Yes ☐ N/A	
11	Limited certification approval and Table 4-1 wording	§6.6	☐ Yes ☐ N/A	
12	Level III: Basic and Method examinations or accepted ASNT certificate; Appendix 4 checklist; Level II practical demonstration	§8.3, §8.5	☐ Yes ☐ N/A	
13	Recertification: TPE completed during the certification period	§10.1.2, §12.2.3	☐ Yes ☐ N/A	
14	Certification record complete with dates, expiration, and TPE due date; signed by the verifying Level III and the Certifying Authority	§9.4, §9.6	☐ Yes ☐ N/A	
15	Certificate or wallet card complete, including PII-WP-1 revision and SNT-TC-1A (2024)	§9.6.2	☐ Yes ☐ N/A	
16	Record entered in the certification tracking system	§5.7.3	☐ Yes ☐ N/A	