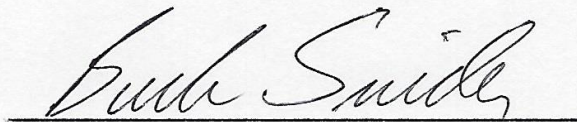


PB-4000**QUALIFYING AND CERTIFYING NDE PERSONNEL****REVISION A05****OCTOBER 15, 2025****Reviewed By:**

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Date: October 15th, 2025

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REVISION HISTORY

Revision	Date	Description of Changes	Revised by
A0	01/01/96	Original Issue	N/A
A01	12/30/99	Minor revision in various paragraphs as noted	Scott Powers
A02	02/01/04	Minor Revisions	Scott Powers
A03	08/01/08	Minor Revisions	Scott Powers
A04	09/12/18	Reformatted and updated procedure	Scott Powers
A05	10/15/25	Updated to reflect the 2024 edition of ASNT SNT-TC-1A as a referenced spec; added definition of “certifying authority” in section 6.3.6	Scott Powers

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1.0 PURPOSE

- 1.1 To establish the method of qualifying and certifying all P & B TESTING, INC. NDE personnel in compliance with the guidelines of ASNT recommended practice SNT-TC-1A and P & B's Quality Assurance Manual.

2.0 APPLICATION

- 2.1 This procedure applies to all P & B TESTING, Inc. personnel whose specific position requires appropriate knowledge of the technical principals underlying the nondestructive test they perform, witness, monitor or evaluate as a trainee, Level I, Level II or Level III. The administration of this procedure shall be the responsibility of the ASNT Level III.

3.0 REFERENCES

- 3.1 ASNT recommended procedure No. SNT-TC-1A, 2024 Edition
- 3.2 Employee's qualification records.
- 3.3 P & B TESTING, INC. Quality Assurance Manual.
- 3.4 ANSI/ASNT CP-105-2016
- 3.5 Jaeger Test Chart

4.0 NONDESTRUCTIVE EXAMINATION METHODS

- 4.1 Qualification and certification of NDE personnel shall be applicable to each of the following methods.
- 4.1.1 Ultrasonic Testing (UT)
- 4.1.2 Liquid Penetrant Testing (PT)
- 4.1.3 Magnetic Particle Testing (MT)

5.0 LEVELS OF QUALIFICATION

- 5.1 There shall be three (3) basic levels of qualifications for ultrasonic, liquid penetrant and magnetic particle testing.
- 5.1.1 Level I
- 5.1.2 Level II
- 5.1.3 Level III
- 5.1.4 In the process of being qualified and certified to NDE level I, an individual shall be considered a trainee.
- 5.1.4.1 A trainee shall work with a Level II and shall not conduct any test independently, interpret any results of test or witness any report of test results.

6.0 RESPONSIBILITY**6.1 Level I Individuals shall:**

- 6.1.1 Be qualified to properly perform specific calibrations tests and examinations according to written instructions and to record results.
- 6.1.2 Receive the necessary instruction and supervision by a certified Level II, Level III, or his designee.

6.2 Level II Individuals shall:

- 6.2.1 Be qualified to set up, calibrate NDE equipment and conduct the examination in which method he/she is certified to.
- 6.2.2 Interpret and evaluate NDE results with respect to applicable codes, standards, specifications and other contractual documents that control the method used by P&B Testing, Inc.
- 6.2.3 Be thoroughly familiar with this written practice and limitations of the NDE methods for which he/she is certified to.
- 6.2.4 Exercise assigned responsibility for on the job training and guidance of trainees and NDE Level I personnel.
- 6.2.5 Be able to prepare written instructions and technique sheets that shall be approved by a Level III prior to implementing.
- 6.2.6 Be able to organize and report the results of NDE.

6.3 Level III Individuals shall:

- 6.3.1 Be capable and responsible for establishing, qualifying and approving techniques and procedures, interpreting codes, standards, specifications and other contractual documents that control the method used as well as designating the particular test methods, techniques and procedures to be used. Only individuals certified to Level III status shall have the authority to endorse procedures for technical sufficiency in the method in which they are certified to.
- 6.3.2 Have sufficient practical knowledge and background in calibration, materials, and fabrication and production technology to establish techniques and to assist in establishing acceptance criteria where none exist.
- 6.3.3 Be generally familiar with other NDE methods.
- 6.3.4 Be responsible for training and certifying NDE Level I and Level II personnel.
- 6.3.5 Level III individuals may conduct NDE examinations for acceptance and rejection of parts if demonstration of proficiency was included in the practical exam for the particular method upon which the certification was based.
- 6.3.6 Be designated the "certifying authority," which authorizes this person to sign certifications on behalf of P&B Testing, Inc.

7.0 EDUCATION, TRAINING, AND EXPERIENCE REQUIREMENT

7.1 Personnel considered for certification in NDE shall have sufficient education, training and experience to ensure understanding of the principles, fundamentals and applications as well as demonstrate the skill and knowledge of those areas of testing in which they are being considered for certification. To be considered for certification, a candidate shall satisfy one of the following criteria for the applicable NDE level. Documented training and/or experience gained in positions and activities equivalent to those of Level I, II and/or III prior to establishment of this certification program shall be considered as satisfying the criteria of paragraphs 7.2.1 and 7.2.2 if accepted by the P&B Testing, Inc Level III.

7.2.1 NDE Levels I and II

Table I lists the required minimum training and experience factors for initial qualification of NDE Level I and II.

7.2.2 NDE Level III

To be considered for certification as a Level III, the candidate shall satisfy one of the following education and experience criteria.

7.2.2.1 Have graduated from a minimum four year college or university curriculum with a degree in Engineering or Science plus one year experience in Nondestructive Testing in an assignment comparable to that of an NDE Level II in the applicable test method(s). A) If the college or university degree is issued in nondestructive testing, the one-year experience requirement shall be reduced to six (6) months. Or;

7.2.2.2 Have completed, with passing grades, at least two years of Engineering or Science study at a university, college or technical school plus two years of experience in assignments at least comparable to that of NDE Level II in the applicable test method(s). Or;

7.2.2.3 Have four years of experience in an assignment at least comparable to that of an NDE Level II in the applicable test method(s).

7.2.2.4 Training shall be provided by a Level III using training material recommended by ASNT or from a training course or school approved by the Level III.

8.0 EXAMINATIONS

8.1 An NDE Level III individual or his designated representative shall administer and grade examinations. The examinations to verify physical and technical qualifications shall consist of the following:

8.1.1 **Physical**

8.1.1.1 The examination shall assure natural or corrected near distance accuracy in at least one eye such that the applicant is capable of reading a minimum JAEGER Number one (1) or equivalent type and size letters, at a distance of not less than twelve (12) inches on a JAEGER Test Chart.

8.1.1.2 The examination shall demonstrate the capability of distinguishing and differentiating contrast between colors used in the applicable NDE method.

8.1.1.3 The examination shall be administered on an annual basis.

8.1.1.4 Examination results shall be documented and retained on file for the period of certification.

8.1.2 **General** (written) (for NDE Levels I and II)

8.1.2.1 The general examinations shall be addressed to the basic principles or the applicable NDE method.

8.1.2.2 The examinations shall contain a minimum of forty (40) appropriate questions concerning the applicable NDE method to the degree required by P & B TESTING, INC.

8.1.3 **Specific** (for NDE Levels I and II)

8.1.3.1 The specific examinations for NDE levels I and II shall address the equipment the applicant may encounter during specific assignments.

8.1.3.2 The specific examinations shall also cover the specifications or codes and acceptance criteria used in P & B TESTING, INC. nondestructive testing procedures.

8.1.3.3 Minimum number of questions shall be 20 in each method.

8.1.4 **Practical** (for NDE Levels I and II)

8.1.4.1 The candidate shall demonstrate familiarity with and the ability to operate the necessary test equipment, record, analyze the resultant information gained from the test, and make acceptance/rejection decisions based on applicable specifications, codes and/or procedures.

8.1.4.2 As a minimum, one selected specimen shall be tested and the results of the test analyzed by the candidate.

8.1.4.3 The description of the specimen, the test procedure, including a minimum of 10 check points, and the results of the examination shall be documented.

8.2 Table II describes the requirements of examinations for NDE Levels I and II for the various nondestructive testing methods.

8.2.1 The written examination shall be administered without access to reference material (closed book) except that necessary data, such as graphs, tables, specifications, procedures and codes may be provided.

8.2.2 All questions used for Level I and Level II examinations shall be approved by the responsible Level III individual.

8.2.3 A valid endorsement on an ACCP Level II certificate satisfies the criteria listed in section 8.1 to 8.2.2 for each applicable NDE method.

8.3 NDE Level III examinations shall be in accordance with the following:

8.3.1 Fifteen (15) questions relating to understanding of SNT-TC-1A, latest edition.

8.3.2 Twenty (20) questions relating to applicable materials, fabrication and product technology.

8.3.3 Twenty (20) questions from Level II certification examinations for other appropriate NDE methods.

8.3.4 Method of Examination that is required for each method:

8.3.4.1 Thirty (30) questions relating to fundamentals and principles, which have been selected from published ASNT Level II questions for each method, and

8.3.4.2 Fifteen (15) questions relating to application and establishment of techniques and procedures which have been selected from published ASNT Level III questions for each method.

8.3.4.3 Twenty (20) questions relating to capability for interpreting codes, standards and specifications relating to the method.

8.3.5 Specific Examination that is required for each method:

8.3.5.1 Twenty (20) questions relating to specifications, equipment, techniques and procedures applicable to P & B TESTING, INC. method employed and to the administration of the procedures.

8.4 In lieu of the requirements of paragraph 8.3 Level III examinations administered and graded by the American Society of Nondestructive Testing or an authorized exam center will be accepted.

9.0 GRADING OF EXAMINATIONS

9.1 P & B TESTING, INC. QA Manager shall be responsible for administration and grading of examinations for NDE Level III personnel.

9.1.1 A representative of the company may perform the actual administration and grading of Level III examinations.

9.2 An NDE Level III, shall be responsible for the administration and grading of examinations for NDE Levels I and II personnel.

9.2.1 The administration and grading of examinations may be delegated to a designated representative of the NDE Level III and so recorded.

9.3 A composite grade shall be determined based upon the average results of the general, specific and practical examinations for Level I and II individuals, and upon the basic, method and specific examinations for the Level III.

9.3.1 Examinations administered for qualification shall result in a composite grade of at least 80 percent, with no individual examination having a grade less than 70 percent.

9.3.2 When an examination is administered and graded for P & B TESTING, INC. by an outside agency and the agency issues grades of pass and fail only, on certified report, then P & B TESTING, INC. may accept the pass grade as 80 percent for that particular examination.

9.4 **Re-Examination**

9.4.1 Those failing to attain the required grades must wait at least thirty (30) days or show documented evidence of having received suitable additional training as determined by the NDE Level III individual before re-examination.

10.0 CERTIFICATION

10.1 Certification of all Levels of NDE personnel is the responsibility of P&B Testing, Inc.

10.2 Certification of NDE personnel shall be based on demonstration of satisfactory qualification as determined by the requirements of this procedure.

10.3 The qualification records of the certified individuals shall be maintained by the QA Manager and shall include the following:

10.3.1 Name of certified individual.

10.3.2 Level of certification and test method.

10.3.3 Educational background and experience of certified individuals.

10.3.4 Evidence of satisfactory completion of the required training.

10.3.5 Results of the Physical Examination.

10.3.6 Evidence of successful completion of the required examination.

10.3.7 Suitable evidence of satisfactory qualifications when such are used in lieu of examinations.

10.3.8 Composite grade(s) or suitable evidence of grades.

10.3.9 Date of certification and/or re-certification and the dates of assignment to NDE.

10.3.10 Signature of the NDE Level III that verified qualifications of candidate for certification.

10.4 NDE personnel shall be issued documents which show evidence of certification and the signature of the certifying NDE Level III individual. Copies of these documents shall be on file with the Quality Manager.

10.4.1 External NDE services may be provided by individuals approved by the P&B Testing, Inc. NDE Level III. Individuals providing these services must possess a valid ACCP or NDET Level III certificate from ASNT in the method services provided for. Services provided may be Level II examinations in MT, PT or UT. Training and examinations of P&B Testing, Inc. personnel or P&B Testing's clients. Services may also include reviewing, revising and writing procedures and specifications. Technical consulting and auditing work may also be provided by external sources.

10.5 Re-certification

10.5.1 NDE Level I, Level II, and Level III personnel shall be re-certified at least once every five (5) years in accordance with one of the following criteria:

- 10.5.1.1 Evidence of continuing satisfactory performance.
- 10.5.1.2 Re-examination in those portions of the examinations deemed necessary by the assigned Level III individual and/or the Quality Manager.
- 10.5.1.3 NDE personnel may be re-examined any time at the discretion of the assigned NDE Level III individual and/or the NDE supervisor and have their certifications extended or revoked.

11.0 TERMINATION

11.1 Any certification granted or issued by P & B TESTING, INC. shall be deemed revoked when employment is terminated.

12.0 TRAINING PROGRAMS

12.1 Personnel being considered for certification shall complete sufficient organized training to become thoroughly familiar with the principles and practices of the specified test method related to the level of certification desired and applicable to the practices of the specified test method related to the level of certification desired and applicable to the practices to be used.

12.2 Training Programs shall include sufficient examinations to assure that the necessary information has been comprehended.

13.0 CERTIFICATION AND QUALIFICATION RECORDS

13.1 P & B TESTING, INC. Certification.

13.2 Employee Qualification Record.

TABLE I
INITIAL TRAINING AND EXPERIENCE LEVELS

(MINIMUM REQUIREMENTS)

EXAMINATION METHOD	UT		MT		PT	
LEVEL	I	II	I	II	I	II
Required Training Time	40	40	12	8	12	8
Work time experience (hours):	210	630	70	210	70	140

NOTES:

1. For Level II certification: The experience shall consist of time at Level I or equivalent. If a person is being qualified directly to Level II with no time at Level I, the required experience shall consist of the sum of the times required for Level I and Level II, and the training required for Level I and Level II.
2. The experience requirements are the minimum total hours of actual time working in the applicable NDE method, and is based on an individual working full time (40 hours per week/172 hours per month) in that method.

****METHODS**

PT – LIQUID PENETRANT TESTING
MT – MAGNETIC PARTICLE TESTING
UT – ULTRASONIC TESTING

TABLE II
GENERAL DESCRIPTION OF EXAMINATION FOR NDE LEVEL I AND II

EXAMINATION METHOD	UT		MT		PT	
LEVEL	I	II	I	II	I	II
A. GENERAL (Written) Number of Questions	40	40	40	40	40	40
B. SPECIFIC (Written) Number of Questions	20	20	20	20	20	20
C. PRACTICAL	LEVEL I A. Proficiency shall be demonstrated in performing the applicable NDE test on one or more samples approved by the NDE Level III individual. B. At least ten (10) different check points requiring an understanding of test variables and P&B Testing, Inc. procedure requirements shall be included in this practical exam.					
	LEVEL II A. Proficiency shall be demonstrated in performing the applicable NDE test and interpreting and evaluating the result on one or more samples approved by the NDE Level III individual. B. At least ten (10) different check points requiring an understanding of test variables and P&B Testing, Inc. procedure requirements shall be included in this practical exam.					

****METHODS**

PT – LIQUID PENETRANT TESTING
MT – MAGNETIC PARTICLE TESTING
UT – ULTRASONIC TESTING