The purpose of this record is to replace the existing 2019 Section V Article 1, Mandatory Appendix III in its entirety. Where no changes are being proposed, that is being noted as “unchanged.”

Where ASNT SNT-TC-1A 2016 Edition has used the verb “should” throughout the document to emphasize the recommendation presented, Section V has modified many of the “should” statements to designate minimum requirements when SNT-TC-1A is utilized as the basis for the required written practice for Section V compliance. Replacing Section V “shall” statements with “should” statements is not allowed. The following are exceptions, modifications, and additions to SNT-TC-1A 2016 Edition with 2018 Addendum 1:

**SECTION V Article 1**

**Mandatory Appendix III**

<table>
<thead>
<tr>
<th>CURRENT 2016 SNT-TC-1A</th>
<th>PROPOSED CHANGES</th>
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<tbody>
<tr>
<td><strong>1.0 Scope</strong></td>
<td><strong>III-201 SCOPE</strong></td>
</tr>
<tr>
<td></td>
<td>1.1 thru 1.3 unchanged.</td>
</tr>
<tr>
<td>1.4 It is recognized that these guidelines may not be appropriate for certain employer’s circumstances and/or applications. In developing a written practice as required in Section V, the employer <strong>should</strong> review the detailed recommendations presented herein and modify them, as necessary, to meet particular needs. Such modification may alter but shall not eliminate basic provisions of the program such as training, experience, testing, and recertification.</td>
<td></td>
</tr>
<tr>
<td><strong>2.0 Definitions</strong></td>
<td><strong>III-202 DEFINITIONS</strong></td>
</tr>
<tr>
<td>2.1.9 Grading Unit: A Qualification Specimen can be divided into sections called grading units, which do not have to be equal length or equal spaced. Grading units are unflawed or flawed and the percentage of flawed/unflawed grading units required should be approved by the NDE Level III.</td>
<td>2.1.9 Grading Unit: A Qualification Specimen, <strong>that when required</strong>, can be divided into sections called grading units, which do not have to be of equal length or equally spaced. Grading units are unflawed or flawed and the percentage of flawed/unflawed grading units <strong>shall</strong> be approved by the NDE Level III.</td>
</tr>
<tr>
<td>2.1.10 thru 2.1.12 unchanged</td>
<td>2.1.10 thru 2.1.18 unchanged</td>
</tr>
<tr>
<td>2.1.19 Detection Rate: The number or percentage of false calls allowed for a test specimen as defined by the NDE Level III.</td>
<td>2.1.19 Detection Rate: The number or percentage of false calls allowed for a test specimen as defined by the NDE Level III.</td>
</tr>
<tr>
<td>2.1.20 Method: One of the disciplines of NDE; for example, ultrasonic testing, within which various techniques may exist.</td>
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</tr>
<tr>
<td>2.1.21 Level II Demonstration: A Level II practical examination required for individuals performing examinations, interpretation; or evaluations NDE for acceptance in each NDE Method method and technique sought for certification.</td>
<td>2.1.22 Level III Demonstration: A Level III practical examination required for individuals performing examinations, interpretation; or evaluations NDE for acceptance. In each NDE Method method and technique sought for certification.</td>
</tr>
<tr>
<td>2.1.23 Level III Practical: The act of successfully writing a Code compliant NDE procedure for each NDE Method method sought for certification.</td>
<td>2.1.23 Level III Practical: The act of successfully writing a Code compliant NDE procedure for each NDE Method method sought for certification.</td>
</tr>
</tbody>
</table>
3.0 Nondestructive Testing Methods

3.1 Qualification and certification of NDT personnel in accordance with this Recommended Practice is applicable to each of the following methods:

- Acoustic Emission Testing
- Electromagnetic Testing
- Ground Penetrating Radar
- Guided Wave Testing
- Laser Testing Methods
- Leak Testing
- Liquid Penetrant Testing
- Magnetic Flux Leakage
- Magnetic Particle Testing
- Microwave Technology
- Neutron Radiography Testing
- Radiographic Testing
- Thermal/Infrared Testing
- Ultrasonic Testing
- Vibration Analysis
- Visual Testing

4.0 Levels of Qualification

4.2 While in the process of being initially trained, qualified, and certified, an individual should be considered a trainee. A trainee should work with a certified individual. The trainee should not independently conduct, interpret, evaluate, or report the results of any NDT test.

4.3.1 NDT Level I. An NDT Level I individual should have sufficient technical knowledge and skills to be qualified to properly perform specific calibrations, specific NDT, and specific evaluations for acceptance or rejection determinations according to written instructions and to record results. The NDT Level I should receive the necessary instruction and supervision from a certified NDT Level II or III individual.

**PROPOSED CHANGES**

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2.1.24 NDE Examiner: An individual who is certified to a minimum of Level II in at least one NDE method and technique. This certified individual can perform the development and application of technical methods to examine materials and/or components in ways that do not impair future usefulness and serviceability in order to detect, locate, measure, interpret, and evaluate flaws.

III-203 NONDESTRUCTIVE TESTING METHODS

3.1 Qualification and certification of NDE personnel is applicable to each of the following methods:

- Acoustic Emission Testing
- Electromagnetic Testing
- Full Matrix Capture
- Guided Wave Testing
- Leak Testing
- Liquid Penetrant Testing
- Magnetic Flux Leakage
- Magnetic Particle Testing
- Radiographic Testing
- Radiographic Testing
- Ultrasonic Testing
- Visual Testing

III-204 LEVELS OF QUALIFICATION

4.1 unchanged

4.2 While in the process of being initially trained, qualified, and certified, an individual shall be considered a trainee. A trainee shall work with a certified individual. The trainee shall not independently conduct, interpret, evaluate, or report the results of any NDE examination.

4.3 unchanged

4.3.1 NDE Level I. An NDE Level I individual shall be qualified to properly perform specific calibrations, specific NDE, and specific evaluations for acceptance or rejection determinations according to written instructions and to record results. The NDE Level I shall receive the necessary instruction and supervision from a certified NDE Level II or III individual.
### 4.3.2 NDE Level II

An NDE Level II individual should have sufficient technical knowledge and skills to be qualified to set up and calibrate equipment and to interpret and evaluate results with respect to applicable codes, standards, and specifications. The NDE Level II should be thoroughly familiar with the scope and limitations of the methods for which qualified and should exercise assigned responsibility for on-the-job training and guidance of trainees and NDE Level I personnel. The NDE Level II should be able to organize and report the results of NDE tests.

### 4.3.3 NDE Level III

An NDE Level III individual should have sufficient technical knowledge and skills to be capable of developing, qualifying, and approving procedures, establishing and approving techniques, interpreting codes, standards, specifications, and procedures, and designating the NDT methods, techniques, and procedures to be used. The NDT Level III should be responsible for the NDT operations for which qualified and assigned and should be capable of interpreting and evaluating results in terms of existing codes, standards, and specifications. The NDT Level III should have sufficient practical background in applicable materials, fabrication, and product technology to establish techniques and to assist in establishing acceptance criteria when none are otherwise available. The NDT Level III should have general familiarity with other appropriate NDT methods, as demonstrated by an ASNT Level III Basic examination or other means. The NDT Level III, in the methods in which certified, should have sufficient technical knowledge and skills to be capable of training and examining NDT Level I, II, and III personnel for certification in those methods.

### 5.0 Written Practice

5.1 The employer shall establish a written practice for the control and administration of NDT personnel training, examination and certification.

5.2 The employer's written practice should describe the responsibility of each level of certification for determining the acceptability of materials or components in accordance with the applicable codes, standards, specifications, and procedures.

5.3 The employer's written practice should describe the training, experience, and examination requirements for each level of certification by method and technique, as applicable.

5.4 The employer's written practice should identify the test techniques within each test method applicable to its scope of operations.

5.5 The employer's written practice shall be reviewed and approved by the employer's NDE Level III.

### PROPOSED CHANGES

Delete Struck Through Text and Insert Underlined Text

4.3.2 NDE Level II. An NDE Level II individual shall be qualified to set up and calibrate equipment and to interpret and evaluate results with respect to applicable codes, standards, and specifications. The NDE Level II shall be familiar with the scope and limitations of the methods and techniques for which qualified and shall exercise assigned responsibility for on-the-job training and guidance of trainees and NDE Level I personnel. The NDE Level II shall be able to organize and report the results of NDE examinations.

4.3.3 NDE Level III. An NDE Level III individual shall have technical knowledge and skills to develop, qualify, and approve procedures; establish and approve techniques, interpret codes, standards, specifications, and procedures; and designate the NDE methods, techniques, and procedures to be used. The NDE Level III shall be responsible for the NDE operations for which qualified and assigned and shall be capable of interpreting and evaluating results in terms of existing codes, standards, and specifications. The NDE Level III shall have sufficient practical background in applicable materials, fabrication, and product technology to establish techniques and to assist in establishing acceptance criteria when none are otherwise available. The NDE Level III shall have knowledge of other NDE methods, as demonstrated by a Level III Basic examination. The NDE Level III, in the methods in which certified, shall have the technical knowledge and skills to be capable of training and examining NDE Level I, II, and III personnel for certification in those methods.

### III-205 WRITTEN PRACTICE

5.1 The employer shall establish a written practice for the control and administration of NDE personnel training, examination and certification.

5.2 The written practice shall describe the responsibility of each level of certification for determining the acceptability of materials or components in accordance with Section V, and the referencing Codes, Standards, and documents.

5.3 The written practice shall describe the training, experience, and examination requirements for each level of certification by method and technique.

5.4 The written practice shall identify the NDE techniques within each method applicable to the written practice.

5.5 The written practice shall be reviewed and approved by the employer's NDE Level III.
### 6.0 Education, Training, and Experience Requirements for Initial Qualification

**6.1 Candidates for certification in NDT should have sufficient education, training, and experience to ensure qualification in those NDT methods in which they are being considered for certification.** Documentation of prior certification may be used by an employer as evidence of qualification for comparable levels of certification.

**6.2 Documented training and/or experience gained in positions and activities comparable to those of Levels I, II, and/or III prior to establishment of the employer’s written practice may be considered in satisfying the criteria of Section 6.3.**

**6.3 To be considered for certification, a candidate should satisfy one of the following criteria for the applicable NDT level:**

**6.3.1 NDT Levels I and II**

Table 6.3.1A lists the recommended minimum training and experience hours to be considered in establishing written practices for initial qualification of NDT Level I and Level II individuals.

Table 6.3.1B lists initial training and experience hours, which may be considered by the employer for specific limited applications as defined in the employer’s written practice. Limited certifications issued in any method should be approved by the NDT Level III and documented in the certification records.

**6.3.2 NDT Level III**

6.3.2.1 Have a baccalaureate degree (or higher) in engineering or science, plus one additional year of experience beyond the Level II requirements in NDT in an assignment comparable to that of an NDT Level II in the applicable NDT method(s), or:

6.3.2.2 Have completed with passing grades at least two years of engineering or science study at a university, college, or technical school, plus two additional years of experience beyond the NDT Level II requirements in NDT in an assignment at least comparable to that of NDT Level II in the applicable NDT method(s), or:

6.3.2.3 Have four years of experience beyond the NDT Level II requirements in NDT in an assignment at least comparable to that of NDT Level II in the applicable NDT method(s).

The above NDT Level III requirements may be partially replaced by experience as a certified NDT Level II or by assignments at least comparable to NDT Level II as defined in the employer’s written practice.

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### PROPOSED CHANGES

**III-206 EDUCATION, TRAINING AND EXPERIENCE REQUIREMENTS FOR INITIAL QUALIFICATION**

**6.1 Candidates for certification in NDE shall have the education, training, and experience to ensure qualification in those NDE methods and techniques in which they are being considered for certification.** Documentation of prior certification may be used by an employer as evidence of qualification for comparable levels of certification provided it has been verified by the certifying authority NDE Level III in accordance with the written practice.

**6.2 Documented training or experience gained in positions and activities comparable to those of Levels I, II, and III prior to establishment of the written practice may be considered when satisfying the criteria for education, training, and experience, provided the information has been verified by the certifying authority NDE Level III in accordance with the written practice.**

**6.3 To be considered for certification, a candidate shall satisfy one of the following criteria for the applicable NDE level:**

**6.3.1 NDE Levels I and II**

Table 6.3.1A lists the minimum training and experience hours to be considered in establishing written practices for initial qualification of NDE Level I and Level II individuals.

Table 6.3.1B lists initial training and experience hours, which may be considered for specific limited applications as defined in the written practice. Limited certifications shall apply to individuals who do not meet the full training and experience of Table 6.3.1A. Limited certifications issued in any method shall be approved by the NDE Level III and documented in the certification records.

**6.3.2 NDE Level III**

6.3.2.1 Have a baccalaureate degree (or higher) in engineering or science, plus one additional year of experience beyond the Level II requirements in NDE in an assignment comparable to that of an NDE Level II in the applicable NDE method(s), or:

6.3.2.2 Have completed with passing grades at least two years of engineering or science study at a university, college, or technical school, plus two additional years of experience beyond the NDE Level II requirements in NDE in an assignment at least comparable to that of NDE Level II in the applicable NDE method(s), or:

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

The above NDE Level III requirements may be partially replaced by experience as a certified NDE Level II or by assignments at least comparable to NDE Level II as defined in the written practice.
Table 6.3.1A Notes:

Note 1.0 A person may be qualified directly to NDE Level II with no time as a certified NDE Level I, providing the recommended training and experience consists of the sum of the hours recommended for NDE Level I and Level II.

Note 2.0 For NDE Level III certification, the experience should consist of the sum of the hours for NDE Level I and Level II, plus the additional time in 6.3.2 as applicable. The formal training should consist of the NDE Level I and Level II training, plus any additional formal training as defined in the employer’s written practice.

Note 6.0 While fulfilling total NDE experience requirement, experience may be gained in more than one (1) method, however, the minimum hours must be met for each method.

Note 7.0 If an individual is currently certified in a Radiographic Testing technique and a full course format was used to meet the initial qualifications in that technique, the minimum additional training hours to qualify in another technique at the same level should be 24 hours (of which at least 16 hours should be equipment familiarization). The training outline should be as defined in the employer’s written practice. If an individual is certified in a technique, the minimum additional experience required to qualify for another technique at the same level may be reduced by up to 50 percent, as defined by the employer’s written practice.

Note 10.0 Time of Flight Diffraction and Phased Array require Ultrasonic Testing Level II certification as a prerequisite.

Table 6.3.1A Notes:

Note 1.0 A person may be qualified directly to NDE Level II with no time as a certified NDE Level I, providing the training and experience consists of the sum of the hours for NDE Level I and Level II.

Note 2.0 For NDE Level III certification, experience shall consist of the sum of the hours for NDE Level I and Level II, plus the additional time in 6.3.2 as applicable. The formal training shall consist of the NDE Level I and Level II training, including additional time required by Section V, the referencing Code, Standards, Specifications, or controlling documents.

Notes 3.0 through 5.0 unchanged.

Note 6.0 While fulfilling the total NDE experience requirement, experience may be gained in more than one (1) method, however, the minimum hours must be met for each method.

Note 7.0 For an individual currently certified in a radiography technique and a full course format was used to meet the initial qualifications in that technique, the minimum additional training hours to qualify in another technique at the same level shall meet the requirements of Section V, Article 1, Mandatory Appendix II.

Note 8.0 unchanged

Note 9.0 Not applicable

Note 10.0 Time of Flight Diffraction (TOFD), Phased Array Ultrasonic Testing (PAUT), and Full Matrix Capture (FMC) require Ultrasonic Testing Level II certification as a prerequisite, see Article 1, Mandatory Appendix II for requirements.

Note 11 The practical examination shall consist of a number of radiographs to demonstrate satisfactory performance, as determined by the NDE Level III or provide documented experience as deemed appropriate by the NDE Level III.
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7.0 Training Programs

7.1 Personnel being considered for initial certification should complete sufficient organized training. The organized training may include instructor-led training, personalized instruction, virtual instructor-led training, computer-based training, or web-based training. Computer-based training and web-based training should track hours and content of training with student examinations in accordance with 7.2. The sufficiently organized training shall be such as to ensure the student is thoroughly familiar with the principles and practices of the specified NDE method related to the level of certification desired, and applicable to the processes to be used and the products to be tested. All training programs should be approved by the NDE Level III responsible for the applicable method.

7.2 The training program should include sufficient examinations to ensure understanding of the necessary information.

8.0 Examinations

8.1.1 All qualification examination questions should be approved by the NDE Level III responsible for the applicable method.

8.1.2 An NDE Level III should be responsible for the administration and grading of examinations specified in Section 8.3 through 8.8 for NDE Level I, II, or other Level III personnel. The administration and grading of examinations may be delegated to a qualified representative of the NDE Level III and so recorded. A qualified representative of the employer may perform the actual administration and grading of NDE Level III examinations specified in 8.7.

8.1.2.1 To be designated as a qualified representative of the NDE Level III for the administration and grading of NDE Level I and Level II personnel qualification examinations, the designee should have documented, appropriate instruction by the NDE Level III in the proper administration and grading of qualification examinations prior to conducting and grading independent qualification examinations for NDE personnel. Additionally, the practical exam should be administered by a person certified in the applicable NDE method as NDE Level II or III.

**PROPOSED CHANGES**

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**III-207 TRAINING PROGRAMS**

7.1 Personnel being considered for initial certification shall complete the organized training required by the written practice to become familiar with the principles and practices of the specified NDE method related to the level of certification desired and applicable to the processes to be used and the products to be examined. The organized training shall include one or more of the following: instructor-led training, personalized instruction, virtual instructor-led training, computer-based training, or web-based training. Computer-based training and web-based training shall track hours and content of training with student examinations. The organized training shall ensure the student is familiar with the principles and practices of the specified NDE method, as applicable to the processes to be used and the products to be examined. All training programs shall be approved by the NDE Level III responsible for the applicable method. Hours shall not be credited for “self-study” scenarios.

7.2 The training program shall include examinations to ensure understanding of the information.

7.3 and 7.4 unchanged

7.4 unchanged

**III-208 EXAMINATIONS**

8.1 unchanged

8.1.1 All qualification examination questions shall be approved by the NDE Level III responsible for the applicable method.

8.1.2 An NDE Level III shall be responsible for the administration and grading of examinations specified in Section 8.3 through 8.8 for NDE Level I, II, or other Level III personnel, as well as Basic, Method, Specific, Practical, and Demonstration examinations for Level III personnel. Administration and grading of examinations may be delegated to a qualified representative of the NDE Level III and so recorded. A qualified representative of the employer may perform the actual administration and grading of NDE Level III Basic, Method and Demonstration examinations specified in 8.7. Approved Outside Agencies may also be utilized for examination activities provided the written practice addresses use of outside agencies.

8.1.2.1 To be designated as a qualified representative of the NDE Level III for the administration and grading of NDE Level I and Level II personnel qualification examinations, the designee shall have documented, instruction in the administration and grading of qualification examinations prior to conducting and grading qualification examinations for NDE personnel. Additionally, the practical exam shall be administered by an individual certified in the applicable NDE method as Level II or III.
8.1.3 All NDE Level I, II, and III written examinations should be closed-book except that necessary data, such as graphs, tables, specifications, procedures, codes, etc., may be provided with or in the examination. Questions utilizing such reference materials should require an understanding of the information rather than merely locating the appropriate answer.

8.1.4 For NDE Level I and II personnel, a composite grade should be determined by simple averaging of the results of the general, specific, and practical examinations described below. For NDE Level III personnel, the composite grade should be determined by simple averaging of the results of the basic, method, and specific examinations described below.

8.1.5 Examinations administered by the employer for qualification should result in a passing composite grade of at least 80 percent, with no individual examination having a passing grade less than 70 percent. The practical examination should have a passing grade of at least 80 percent.

8.2 Vision Examinations

8.2.1 Near-Vision Acuity. The examination should ensure natural or corrected near-distance acuity in at least one eye such that the applicant is capable of reading a minimum of Jaeger Number 2 or equivalent type and size letter at the distance designated on the chart but not less than 12 in. (30.5 cm) on a standard Jaeger test chart. The ability to perceive an Ortho-Rater minimum of 8 or similar test pattern is also acceptable. This should be administered annually.

8.2.2 Color Contrast Differentiation. The examination should demonstrate the capability of distinguishing and differentiating contrast among colors or shades of gray used in the method or techniques as specified in the written practice. This should be conducted upon initial certification and at five-year intervals thereafter.

8.2.3 Vision examinations expire 1 year from the date of examination, on the last day of the month of expiration.

8.3 General (Written – for NDE Levels I and II)

8.3.1 The general examinations should address the basic principles of the applicable method.
8.3.2 In preparing the examinations, the NDT Level III should select or devise appropriate questions covering the applicable method to the degree required by the employer’s written practice.

8.3.4 The minimum number of questions that should be given is shown in Table 8.3.4.

8.3.5 A valid ACCP Level II or ASNT NDT Level II certificate may be accepted as fulfilling the general examination criteria for each applicable method if the NDT Level III has determined that the ASNT examinations meet the requirements of the employer’s written practice.

8.4 Specific (Written – for NDT Levels I and II)

8.4.1 The specific examination should address the equipment, operating procedures, and NDT techniques that the individual may encounter during specific assignments to the degree required by the employer’s written practice.

8.4.2 The specific examination should also cover the specifications or codes and acceptance criteria used in the employer’s NDT procedures.

8.4.3 The minimum number of questions that should be given is shown in Table 8.3.4.

8.4.4 A valid ACCP Level II or ASNT NDT Level II certificate may be accepted as fulfilling the specific examination criteria for each applicable method if the NDT Level III has determined that the ASNT examinations meet the requirements of the employer’s written practice.

8.5 Practical (Written – for NDT Levels I and II)

8.5.1 The candidate should demonstrate familiarity with and ability to operate the necessary NDE equipment, record, and analyze the resultant information to the degree required.

8.5.2 At least one flawed specimen or component should be tested and the results of the NDT analyzed by the candidate.

8.3.2 In preparing the examinations, the NDE Level III shall select or devise appropriate questions covering the applicable method and techniques as required by the written practice.

8.3.3 unchanged

8.3.4 The minimum number of questions that shall be given is shown in Table 8.3.4. except for CR, DR, radiography and TOFD, PAUT and FMC techniques ultrasonic testing which as outlined in Mandatory Appendix II.

8.3.5 A valid ACCP Level II or ASNT NDT Level II certificate may be accepted as fulfilling the general examination criteria for each applicable method if the NDE Level III has determined that the ASNT examinations meet the requirements of the written practice.

8.4 Specific (Written – for NDE Levels I and II)

8.4.1 The specific examination shall address the equipment, operating procedures, and NDE techniques that the individual may encounter during specific assignments as required by the written practice.

8.4.2 The specific examination shall also cover ASME Section V, the referencing Code, standards, specifications, and Standards, Specifications, or controlling documents and acceptance criteria used in the employer’s NDE procedures.

8.4.3 The minimum number of questions that shall be given is shown in Table 8.3.4. except for CR, DR, radiography and TOFD, PAUT and FMC techniques ultrasonic testing which as outlined in Mandatory Appendix II.

8.4.4 This paragraph has been deleted and is not allowed

8.5 Practical (Written – for NDE Levels I and II)

8.5.1 The candidate shall demonstrate the ability to operate the necessary NDE equipment, record, and analyze the resultant information to the degree required.

8.5.2 Conventional NDE methods shall require one flawed specimen for each technique practical demonstration and at least two for each method. For CR, DR, radiography and TOFD, PAUT and FMC techniques ultrasonic testing which, the number of flawed specimens required shall be in accordance with Mandatory Appendix II.
8.5.2.1 Phased Array and Time of Flight Diffraction Practical Examination. Flawed samples used for practical examinations should be representative of the components and/or configurations that the candidates would be testing under this endorsement and approved by the NDT Level III.

8.5.2.2 For Film Interpretation Limited Certification, the practical examination should consist of review and grading of at least 20 images.

8.5.3 The description of the specimen, the NDT procedure, including checkpoints, and the results of the examination should be documented.

8.5.4 NDT Level I Practical Examination. Proficiency should be demonstrated in performing the applicable NDT technique on one or more specimens or machine problems approved by the NDT Level III and in evaluating the results to the degree of responsibility as described in the employer's written practice. At least ten (10) different checkpoints requiring an understanding of test variables and the employer's procedural requirements should be included in this practical examination. The candidate should detect all discontinuities and conditions specified by the NDT Level III. The written practice should address detection rates as well as the maximum number of false calls acceptable.

Note: While it is normal to score the practical on a percentile basis, practical examinations should contain checkpoints that failure to successfully complete will result in failure of the examination.

8.5.5 NDT Level II Practical Examination. Proficiency should be demonstrated in selecting and performing the applicable NDT technique within the method and interpreting and evaluating the results on one or more specimens or machine problems approved by the NDT Level III. At least ten (10) different checkpoints requiring an understanding of NDT variables and the employer's procedural requirements should be included in this practical examination. The candidate should detect at least 80% of discontinuities and conditions specified by the NDT Level III. The written practice should address detection rates as well as the maximum number of false calls acceptable.

Note: While it is normal to score the practical on a percentile basis, practical examinations should contain checkpoints that failure to successfully complete will result in failure of the examination.
### CURRENT 2016 SNT-TC-1A

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8.5.6 A valid ACCP Level II certificate may be accepted as fulfilling the practical examination criteria for each applicable method if the NDT Level III has determined that the ASNT examinations meet the requirements of the employer’s written practice.

8.6 Sample questions for general examinations are presented in the separate question booklets that can be obtained from ASNT International Service Center. These questions are intended as examples only and should not be used verbatim for qualification examinations. The following ASNT Questions & Answers Books are available from ASNT International Service Center:

<table>
<thead>
<tr>
<th>8.7 NDT/PdM Level III Examinations</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.7.1 Basic Examinations</td>
</tr>
<tr>
<td>8.7.1.1 NDT Basic Examination (need not be retaken to add another test method as long as the candidate holds a current Level III certificate or certification). The minimum number of questions that should be given is as follows:</td>
</tr>
<tr>
<td>8.7.1.1.1 Fifteen (15) questions relating to understanding the SNT-TC-1A document</td>
</tr>
<tr>
<td>8.7.1.1.2 Twenty (20) questions relating to applicable materials, fabrication, and product technology.</td>
</tr>
<tr>
<td>8.7.1.1.3 Twenty (20) questions that are similar to published NDT Level II questions for other appropriate NDT methods.</td>
</tr>
<tr>
<td>8.7.1.2 PdM Basic Examination (need not be retaken to add another test method as long as the candidate holds a current Level III certificate or certification). The minimum number of questions that should be given is as follows:</td>
</tr>
<tr>
<td>8.7.1.2.1 Fifteen (15) questions relating to understanding the SNT-TC-1A document.</td>
</tr>
<tr>
<td>8.7.1.2.2 Twenty (20) questions relating to applicable machinery technology.</td>
</tr>
<tr>
<td>8.7.1.2.3 Thirty (30) questions that are similar to published NDT Level II questions for other appropriate PdM methods.</td>
</tr>
<tr>
<td>8.7.2 Method Examination (for each method)</td>
</tr>
<tr>
<td>8.7.3 Specific Examination (for each method).</td>
</tr>
<tr>
<td>8.7.3.2 The employer may delete the specific examination if the candidate has a valid ASNT NDT Level III or ACCP Professional Level III certificate in the method and if documented evidence of experience exists, including the preparation of NDT procedures to codes, standards, or specifications and the evaluation of test results.</td>
</tr>
<tr>
<td>8.7.4 A valid endorsement on an ASNT NDT Level III certificate fulfills the examination criteria described in 8.7.1 and 8.7.2 for each applicable NDT method.</td>
</tr>
</tbody>
</table>

### PROPOSED CHANGES

Delete Struck Through Text and Insert Underlined Text

8.5.6 This paragraph has been deleted and is not allowed

8.6 Sample questions for general examinations are presented in the separate question booklets that can be obtained from ASNT International Service Center. These questions are intended as examples only and shall not be used verbatim for qualification examinations. The following ASNT Questions & Answers Books are available from ASNT International Service Center:

<table>
<thead>
<tr>
<th>8.7 NDE Level III Examinations</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.7.1 NDE Basic Examination (need not be retaken to add another test method as long as the candidate holds a current Level III certificate or certification). The minimum number of questions that should be given is as follows:</td>
</tr>
<tr>
<td>8.7.1.1 unchanged</td>
</tr>
<tr>
<td>8.7.1.2 unchanged</td>
</tr>
<tr>
<td>8.7.1.3 Twenty (20) questions that are similar to published NDE Level II questions for other appropriate NDE methods.</td>
</tr>
<tr>
<td>8.7.2 unchanged</td>
</tr>
<tr>
<td>8.7.3 unchanged</td>
</tr>
<tr>
<td>8.7.3.1 unchanged</td>
</tr>
<tr>
<td>8.7.3.2 This paragraph has been deleted and is not allowed</td>
</tr>
<tr>
<td>8.7.4 A valid endorsement on an ASNT NDT Level III certificate fulfills the examination criteria described in 8.7.1 and 8.7.2 for each applicable NDE method.</td>
</tr>
</tbody>
</table>
8.7.5 A valid endorsement of an ACCP Professional Level III certificate fulfills the examination criteria described in 8.7.1 and 8.7.2 for each applicable NDT method.

8.8 Reexamination

8.8.1 All qualification examination questions should be approved by the NDT Level III responsible for the applicable method.

9.0 Certification

9.1 Certification of NDT personnel to all levels of qualification is the responsibility of the employer.

9.2 Certification of NDT personnel should be based on demonstration of satisfactory qualification in accordance with Sections 6, 7, and 8, as described in the employer’s written practice.

9.3 At the option of the employer, an outside agency may be engaged to provide NDT Level III services. In such instances, the responsibility of certification of the employees shall be retained by the employer.

9.4 Personnel certification records should be maintained on file by the employer for the duration specified in the employer’s written practice and should include the following:

9.4.2 Level of certification, NDT method and/or technique, as applicable.

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**PROPOSED CHANGES**

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8.7.5 A valid endorsement of an ACCP Professional Level III certificate fulfills the examination criteria described in 8.7.1 and 8.7.2 for each applicable NDE method.

8.7.6 Level III Practical Examination

8.7.6.1 A Level III Practical Examination shall be completed by writing a Code compliant NDE procedure for each NDE Method sought for certification, as determined by the NDE Level III.

8.7.6.2 For individuals who have previously written Code compliant NDE procedures and evidence of those procedures can be provided to and is approved by the NDE Level III, writing a new NDE procedure for that Method is not required.

8.7.7 Level III Demonstration

8.7.7.1 For Level III’s performing NDE for acceptance, examinations, interpretations or evaluations, a Level III Demonstration consisting of a Level II practical examination is required for each NDE method and technique sought for certification and shall be in accordance with 8.5.5.

8.7.7.2 For an Administrative Level III who does not perform NDE for acceptance, examinations, interpretations or evaluations, the Level III Demonstration in accordance with 8.5.5 does not apply.

8.8.1 All qualification examination questions shall be approved by the NDE Level III responsible for the applicable method.

**III-209 CERTIFICATION**

9.1 Certification of NDE personnel to all levels of qualification is the responsibility of the employer.

9.2 As described in the written practice, certification of NDE personnel shall be based on demonstration of satisfactory qualification in accordance with Sections 6, 7 and 8 of SNT-TC-1A, as amended by this Section V, Mandatory Appendix III.

9.3 At the option of the employer, an outside agency may be engaged to provide NDE Level III services. In such instances, the responsibility of certification of the employees shall be retained by the employer.

9.4 Personnel certification records shall be maintained on file by the employer for the duration specified in the written practice and shall include the following:

9.4.2 Level of certification, NDE method and/or technique, as applicable.
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9.4.7 Other suitable evidence of satisfactory qualifications, when such qualifications are used in lieu of the specific examination prescribed in 8.7.3.2 or as prescribed in the employer’s written practice.

### PROPOSED CHANGES

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9.4.7 This paragraph has been deleted

9.4.8 thru 9.4.12 unchanged

#### III-210 TECHNICAL PERFORMANCE EVALUATION

10.0 Technical Performance Evaluation

10.1 NDE personnel may be reexamined any time at the discretion of the employer and have their certificates extended or revoked.

10.2 Periodically, as defined in the written practice, NDE Level I and II personnel shall be reevaluated by the NDE Level III administering a practical examination. The practical examination shall follow the format and guidelines described in section 8.5., as amended by this Mandatory Appendix.

### III-211 INTERRUPTED SERVICE

11.0 Interrupted Service

11.1 The employer’s written practice should include rules covering the types and duration of interrupted service that requires reexamination and recertification.

11.2 The written practice should specify the requirements for reexamination and/or recertification for the interrupted service.

### III-212 RECERTIFICATION

12.0 Recertification

12.1 All levels of NDT personnel shall be recertified periodically in accordance with one of the following criteria:

12.1.1 Evidence of continuing satisfactory technical performance.

12.1.2 Reexamination in those portions of the examinations in Section 8 deemed necessary by the employer’s NDT Level III.

12.3 When new techniques are added to the employer’s written practice, and the NDT Level III personnel is assigned to perform examinations using these new techniques, the NDT Level III personnel should receive applicable training, take applicable examinations, and obtain the necessary experience, such that the NDT Level III meets the requirements of the new techniques in Table 6.3.1.A, prior to their next recertification date, in the applicable method.

12.4 Level III personnel may be recertified by written Method, Specific, and Practical Examinations and the Demonstration Examination. Alternatively, Level III personnel may be recertified using only the written Method and Specific Examinations, provided the following conditions are met:

12.4.1 Level III candidate was previously certified or recertified using all the written examinations and the Demonstration Examination.

12.4.2 Level III candidate is not being recertified due to interrupted service as defined in the written practice.
13.0 Termination
13.1 The employer’s certification shall be deemed revoked when employment is terminated.

13.2 An NDT Level I, Level II, or Level III whose certification has been terminated may be certified to the former NDT level by a new employer based on examination, as described in Section 8, provided all of the following conditions are met to the new employer’s satisfaction:

13.2.4 Prior to being examined for certification, employees not meeting the above requirements should receive additional training as deemed appropriate by the NDT Level III.

14.0 Reinstatement
14.1 An NDT Level I, Level II, or Level III whose certification has been terminated may be reinstated to the former NDT level, without a new examination, provided all of the following conditions are met:

### PROPOSED CHANGES

- 12.4.3 Level III candidate is not being certified by a new Employer.
- 12.4.4 For initial certification, the grades for the Basic, Method, Specific, Practical, and Demonstration Examinations shall be averaged to determine the overall grade. For recertification, the grades of applicable examinations shall be averaged to determine the overall grade.
- 12.4.5 If When the Method certification has not expired or been revoked, the Level III Demonstration Practical examination of 8.7.6 & 8.7.7 is not required for recertification.
- 12.5 For the Level III Practical examination required by 8.7.6, recertification is not required, provided the Method certification has not expired or been revoked.

#### III-213 TERMINATION

13.1 The NDE Examiner’s certification shall be deemed revoked when employment is terminated.

13.2 An NDE Level I, Level II, or Level III whose certification has been terminated may be certified to the former NDE Level by a new employer based on examination, as described in Section 8, provided all the following conditions are met to the new employer’s satisfaction:

13.2.1 through 13.2.3 unchanged

13.2.4 Prior to being examined for certification, employees not meeting the above requirements shall receive additional training as specified by the NDE Level III.

#### III-214 REINSTATEMENT

14.1 An NDE Level I, Level II, or Level III whose certification has been terminated may be reinstated to the former NDE level, without a new examination, provided all of the following conditions are met:

14.1.1 thru 14.1.3 unchanged