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1.0 CONDUCT OF EXAMINATION

- 1.1 The applicant shall fulfil the minimum requirements of Training and Vision prior to the qualification examination.
- 1.2 All examinations shall be conducted in examination centres established, approved, and monitored by Certification Department.
- 1.3 At the time of examination, applicants must present valid proof of identification along with the official examination notification, which shall be shown to the examiner or invigilator upon request.
- 1.4 Any applicant who fails to comply with examination rules, engages in fraudulent conduct, or assists others in such conduct shall be disqualified from all qualification examinations for a minimum period of one (1) year.
- 1.5 Applicants are not permitted to bring personal items into the examination area unless expressly authorized by the examiner.
- 1.6 During the examination, applicants will be required to select the best answer from the options provided.
- 1.7 The Examination Department shall oversee the administration and initial grading of all examinations. Practical examinations must be supervised by an individual certified at NDT Level 2 or Level 3 in the applicable method and/or technique.
- 1.8 All examination questions shall be approved by the Certification Department. Questions must be selected in an unpredictable manner from the RSA's current bank of valid examination questions.
- 1.9 Written examinations, whether conducted electronically or conventionally, must be invigilated by an examiner or by trained invigilators working under the responsibility of an examiner.
- 1.10 An examiner shall not be permitted to examine any applicant:

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- a. Whom the examiner has trained for the examination within the past two (2) years, measured from the conclusion of the training activities.
- b. Who is employed, either permanently or temporarily, in the same facility as the examiner.

1.11 Final grading of examinations shall be the responsibility of the Certification Department.

2.0 EXAMINATION

2.1 Elements of Examinations

2.1.1 For NDT Level 1 and Level 2, the examination shall consist of the following elements:

- a. General Examination
- b. Specific Examination
- c. Practical Examination

2.2.1 For NDT Level 3, the examination shall consist of the following elements:

- a. Basic Examination (taken once only)
- b. Method Examination (for each method)
- c. Specific Examination (for each method/technique)
- d. Procedure Writing Examination (for each method/technique)
- e. Practical Examination

2.2 NDT Level 1 and Level 2 Examinations

2.2.1 General Examination

- 2.2.1.1 Applicants shall complete a multiple-choice General Examination covering the fundamental principles of the applicable method.

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2.2.1.2 The Certification Department shall prepare the examinations by selecting or formulating suitable questions that adequately address the applicable method to the required level.

2.2.1.3 Where national regulations do not otherwise specify, an additional examination on radiation safety shall be administered for the radiographic testing method. Such examinations may address X-radiation, gamma radiation, or both, depending on the applicable procedure.

2.2.1.4 The minimum number of questions and the time allowed for the examination are specified in Table 1.

2.2.2 Specific Examination

2.2.2.1 The applicant shall complete a multiple-choice Specific Examination covering equipment, operating procedures, and NDT techniques that may be encountered during specific assignments, to the required degree.

2.2.2.2 The Specific Examination shall also include specifications, codes, and acceptance criteria relevant to the applicable NDT procedures.

2.2.2.3 The minimum number of questions and examination duration shall be as specified in Table 1.

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2.2.3 Practical Examination

2.2.3.1 The applicant shall demonstrate familiarity with, and the ability to operate, the necessary NDT equipment, record data, and analyse the resultant information to the degree required.

2.2.3.2 A minimum of two (2) flawed specimens or components shall be tested, and the results of the NDT analysed by the applicant.

2.2.3.3 For LT, LTP, LTH, and LTM Level 2 applicants, the Practical Examination requirements of 2.2.3.2 shall be replaced with the following:

- a. The applicant shall, at minimum, perform NDT on one (1) specimen plus two (2) data sets. The two (2) data sets shall be considered equivalent to one (1) specimen.
- b. The specimen specified in 2.2.3.3a is not required to contain flaws.

2.2.3.4 For RT, CR, DR, RTFI, and RTDI Level 2 applicants, the Practical Examination requirements of 2.2.3.2 shall be replaced with the following:

- a. For RT, the applicant shall perform RT on one (1) specimen plus interpretation of ten (10) radiographs. The set of ten (10) radiographs shall be considered equivalent to one (1) specimen.
- b. For CR, the applicant shall perform CR on one (1) specimen plus interpretation of ten (10) CR images. The set of ten (10) CR images shall be considered equivalent to one (1) specimen.

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- c. For DR, the applicant shall perform DR on one (1) specimen plus interpretation of ten (10) DR images. The set of ten (10) DR images shall be considered equivalent to one (1) specimen.
- d. For RTFI, the applicant shall perform interpretation of ten (10) radiographs.
- e. For RTDI, the applicant shall perform interpretation of ten (10) digital images.
- f. The specimens specified in 2.2.3.4a, 2.2.3.4b, and 2.2.3.4c are not required to contain flaws.

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Table 1: Minimum Number of Examination Questions

NDT Qualification			Minimum Number of Questions			
Method	Technique	Limited	General		Specific	
			Level 1	Level 2	Level 1	Level 2
AT			40	40	20	20
ET			40	40	20	20
	ECT		40	40	20	20
	RFET		30	30	20	20
	ACFM		40	40	20	20
GPR			30	40	20	20
GW			40	40	20	20
LT			20	20	15	15
	LTP		20	20	15	15
	LTH		20	20	15	15
	LTM		20	20	20	40
PT			40	40	20	20
MFL			20	20	20	15
	MFLT		20	20	20	15
MT			40	40	20	20
RT			40	40	20	20
	CR		40	40	20	20
	DR		40	40	20	20
		RTFI (Direct Access)		40		20
		RTFI (RT Level 1)		20		15
		RTDI (Direct Access)		40		20
		RTDI (RT Level 1)		20		15
TT			40		20	
	TTM			50		40
	TTE			50		40
	TTB			50		40
UT			40	40	20	20
	TOFD			40		30
	PAUT			40		30
	IRIS			40		30
		UTLC		30		15
		UTTM		30		15
		UTBC		30		15
VA			40	40	20	60
VT			40	40	20	20

Examination time: General- 100 minutes for 50 questions
80 minutes for 40 questions
60 minutes for 30 questions
40 minutes for 20 questions
: Specific- 120 minutes for 40 questions
90 minutes for 30 questions
60 minutes for 20 questions
45 minutes for 15 questions

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2.2.3.5 For UTTM Level 2 applicants, the Practical Examination requirements of 2.2.3.2 shall be replaced with the following:

- a. The applicant shall, at minimum, perform UTTM on ten (10) thickness readings.
- b. The specimen specified in 2.2.3.5a is not required to contain flaws.

2.2.3.6 The maximum time permitted for each area or volume tested shall be:

- a. **Level 1** – two (2) hours.
- b. **Level 2** – three (3) hours.

2.2.3.7 For Phased Array and Time of Flight Diffraction Practical Examinations, flawed specimens shall be representative of the components and/or configurations the applicants are expected to test under this endorsement. All specimens must be approved by the Certification Department.

2.2.3.8 The specimen description, the NDT procedure (including checkpoints), and the examination results shall be documented. This practical examination shall include at least ten (10) different checkpoints requiring knowledge of test variables and procedural requirements (see Table 2).

2.2.3.9 For **Level 1**, proficiency shall be demonstrated by performing the applicable NDT technique on one or more specimens or machine problems approved by the Certification Department, and by evaluating the results to the extent of the **Level 1** responsibilities.

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2.2.3.10 For **Level 2**, proficiency shall be demonstrated by selecting and performing the applicable NDT technique within the method, and by interpreting and evaluating the results on one or more specimens or machine problems approved by the Certification Department.

2.2.3.11 The applicant shall detect all discontinuities and conditions specified by the Certification Department. Reporting a false call shall result in failure of the examination. Failure to successfully complete will result in failure of the practical examination.

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Table 2: Practical Exam Check Points

No.	Categories	Points	Score	Remarks
1.	Knowledge of NDT Procedure - Familiarity - Utilization - Consideration for limitations - Adherence to procedural details	10		Record the presence or absence of actions that support your score. Was the procedure picked up, thumbed through, read ahead of time, highlighted or marked up. Did the candidate refer to the procedure when questions arose? Did the output comply with the procedure?
2.	Equipment and Material - Stated in procedure or user experience - Proficiency in set up, utilization, and calibration - Proficiency in technique and standardization	5		Record the presence or absence of actions that support your score. Note the equipment and materials used. Evaluate the procedure for calibration adequacy, ease of use, and care.
3.	Test Specimen Care and Custody - Appropriate pre-cleaning - Maintenance/control - Appropriate post-cleaning	5		Record the presence or absence of actions that support your score. Note preparation adequacy, specimen care, final cleaning, and final specimen condition.
4.	Operations - Calibration verification - Adhering to procedures - Adherence to the sequencing requirements - Utilization of appropriate testing media - Inspecting designated areas of interest	10		Record the presence or absence of actions that support your score. State if calibration was verified or not. List steps followed. Note any steps missed. Describe actual test media used, area of interest, and area(s) missed.
5.	Detection of Indications⁽¹⁾ - Adherence to procedure requirements - Accuracy (detection of critical indications) - Finding detectable indications	15		Record the presence or absence of actions that support your score. List all procedure requirements not followed. Note number of hits, misses, and false calls. Reference attached report annotated.
6.	Interpretation of Indications - Adherence to procedure requirements - Accuracy (interpreting the critical indications) - Interpreting relevant indications	15		Record the presence or absence of actions that support your score. Identify metrics reflecting inspection accuracy or inaccuracy. Refer to attached report and interpretation standards compared to known defect map and characterization.
7.	Evaluation of Indications⁽²⁾ - Following procedure requirements - Accuracy (evaluating the critical indications) - Evaluating relevant indications	20 ⁽³⁾		Record the presence or absence of actions that support your score. Quantify discrimination accuracy and margin of error between relevant and nonrelevant indications.
8.	Documentation and Records - Accurate documentation - Proper data processing - Appropriate control of records - Compliance with procedural routing	10		Record the presence or absence of actions that support your score. State degree of completeness, legibility, clarity, correctness, and appearance of reports with errors and omissions.
9.	General Health and Safety - Familiarity with health and safety of method - Volatile substances - Electrical hazards - Respiratory concerns - Compliance with specific site procedures	5		Record the presence or absence of actions that support your score. State violations of industry standards and practices. General statement of compliance is acceptable if no violations.
10.	General Observable Conduct - Proficiency in knowledge of the method - Proficiency in application of the method - Proficiency in the results - Adherence to a professional behavior	5		Record the presence or absence of actions that support your score. List comments or behavior that supports or detracts from examinee performance.

(1) The candidate should detect all discontinuities and conditions specified by the NDT Level III.

(2) No more than 10% false calls allowed.

(3) 80% of designated defects correctly classified (16 points required to pass).

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2.3 NDT Level 3 Examinations

2.3.1 Basic Examination

The applicant shall complete a multiple-choice Basic Examination. This examination is required only once and does not need to be repeated when adding additional test methods, provided the applicant holds a current Level 3 certificate or certification. The minimum number of questions shall be:

- Fifteen (15) questions on the *SNT-TC-1A* document.
- Twenty (20) questions on materials, fabrication, and product technology.
- Twenty (20) questions on other relevant NDT methods at Level 2.

2.3.2 Method Examination

The applicant shall complete a multiple-choice Method Examination for each method. The minimum number of questions shall be:

- Thirty (30) questions on fundamentals and principles for the method.
- Fifteen (15) questions on application and establishment of techniques for the method.
- Twenty (20) questions on interpretation of codes, standards, and specifications related to the method.

2.3.3 Specific Examination

The applicant shall complete a multiple-choice Specific Examination for each method, consisting of at least twenty (20) questions covering specifications, equipment, techniques, and applicable procedures.

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2.3.4 Procedure Writing Examination

The applicant shall prepare an NDT procedure in the method applied, based on the specifications, codes, and standards provided by the Certification Department.

2.3.5 Practical Examination (for each method)

The applicant shall perform Level 2 practical examination in the method applied as described in 2.2.3.

3.0 RE-EXAMINATION

- 3.1 An applicant who fails due to unethical behaviour shall be required to wait at least twelve (12) months before reapplying.
- 3.2 An applicant who fails one or more examination elements (e.g., General, Specific, Practical) may retake the failed element(s) no more than twice, subject to the following:
 - a. A minimum waiting period of one (1) month, which may be reduced if additional training acceptable to the Certification Department has been satisfactorily completed.
 - b. The re-examination must be taken no later than two (2) years after the date of the initial examination.
- 3.3 An applicant who fails two (2) re-examinations in one or more elements shall undergo further training acceptable to RSA and shall be required to retake all examination elements.