NDT PERSONNEL APPLICATION GUIDE

Per CAN/CGSB-48.9712-2022

Form 500E/2026-03

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1 INTRODUCTION

Canadian Welding Bureau NDT Certification Body (CWB NDT CB) is a national, independent and not-for-profit entity acting as a certification body for NDT certification and recertification of personnel in accordance with CAN/CGSB-48.9712-2022.

This guide explains initial certification, renewal and recertification under the CWB NDT Certification Body's scheme to CAN/CGSB-48.9712-2022. It applies to the CWB scheme; the requirements of another certification body may differ.

Contact Information:

Toll-free Help Line: 1-800-844-6790

Email: info@cwbgroup.org

1.1 MYCWB PORTAL — PREFERRED APPLICATION ROUTE

Online application through the myCWB Inspector Portal is the preferred route for initial certification, renewal and recertification. Sign in or create an account, then select the appropriate NDT application. The portal supports submission of supporting documents, attestation requests and application tracking.

PDF application forms remain available to applicants who choose not to use the portal. Obtain the current form and submission instructions from CWB. The same training, experience, vision, attestation and assessment requirements apply to both routes. Avoid duplicate submissions.

Portal access: https://www.cwbgroup.org/mycwb

Before booking, consult Form 506 and the method's study references. The applicable ASNT Nondestructive Testing Handbook is a primary technical reference to study with course notes; passing a course does not replace preparation for certification examinations.

2 CERTIFICATION INFORMATION

2.1 LEVELS OF NDT CERTIFICATION

Below are the expected competencies for each level of certification, additional competencies relating to the method/sector of the certification may also apply.

2.1.1 Level 1 – NDT Certification

To be eligible for a Level 1 NDT Certification, a candidate must demonstrate competence to carry out NDT according to written instructions and under the supervision of Level 2 or Level 3 personnel. Within the scope of the competence specified on the certificate, Level 1 personnel may be authorized by the employer to perform the following in accordance with NDT instructions:

a) set up NDT equipment;
b) perform the tests;
c) record and classify the results of the tests according to written criteria;
d) report the results.

Level 1 certified personnel shall neither be responsible for the choice of test method or technique to be used, nor for the interpretation of test results.

2.1.2 Level 2 – NDT Certification

To be eligible for a Level 2 NDT Certification, a candidate must demonstrate competence to perform NDT according to NDT procedures or NDT instructions. Within the scope of the competence specified on the certificate, Level 2 personnel may be authorized by the employer to:

a) select the NDT technique for the testing method to be used;
b) specify the limitations of application of the testing method;
c) translate NDT codes, standards, specifications, and procedures into NDT instructions adapted to the actual working conditions;
d) set up and verify equipment settings;
e) perform and supervise tests;
f) interpret and evaluate results according to applicable standards, codes, specifications or procedures;
g) carry out and supervise all tasks at or below Level 2;
h) provide guidance and mentoring for personnel at or below Level 2;
i) report the results of NDT.

2.1.3 Level 3 – NDT Certification

To be eligible for a Level 3 NDT Certification, a candidate must demonstrate competence to perform and direct NDT operations for which they are certified. Level 3 personnel have demonstrated:

a) the competence to evaluate and interpret results in terms of existing standards, codes, and specifications;
b) sufficient practical knowledge of applicable materials, fabrication, process, and product technology to select NDT methods, establish NDT techniques, and assist in establishing acceptance criteria where none are otherwise available;
c) a general familiarity with other NDT methods.

Within the scope of the competence specified on the certificate, Level 3 personnel may be authorized by the employer to:

a) establish, review for editorial and technical correctness, and validate NDT instructions and procedures;
b) interpret standards, codes, specifications, and procedures;
c) designate the particular test methods, procedures, and NDT instructions to be used;
d) carry out and supervise all tasks at all levels;
e) provide guidance and mentoring for NDT personnel at all levels.

2.2 METHODS OF TESTING FOR CERTIFICATION

Within the scope of CWB's certification scheme, the following are the current methods and levels available for certification under CAN/CGSB-48.9712-2022:

a) Liquid Penetrant Testing (PT), Levels 2 and 3
b) Magnetic Particle Testing (MT), Levels 2 and 3
c) Ultrasonic Testing (UT), Levels 1, 2 and 3, including the Phased Array Level 2 technique (PAUT2)
d) Eddy Current Testing (ET), Levels 1, 2 and 3

Radiographic Testing (RT): coming soon. CWB will publish the applicable requirements when the method opens.

2.3 SECTORS OF NDT CERTIFICATION

Currently, there is only the EMC sector being offered by CWB, as below. Additional sectors may be added in the future.

2.3.1 EMC

The Engineering, Materials and Components (EMC) Sector includes manufacturing, fabrication, construction, and general inspections in Canadian industry. Below are the areas of products and industry it covers.

- Castings and forgings, composed of ferrous or non-ferrous metallic alloys
- Extrusions of shapes and seamless tubing composed of ferrous or nonferrous metallic alloys
- Wrought product that has been rolled to form plates, blooms, bars or rods and composed of ferrous or nonferrous metallic alloys
- Welds including brazing or soldering that is utilized during fabrication of ferrous or nonferrous metallic alloys
- Composite materials, concrete, plastics and ceramics

3 CERTIFICATION PROCESSES

3.1 CANDIDATE RESPONSIBILITY

Candidates seeking certification are required to successfully complete the examinations applicable to the relevant NDT method, level and sector.

Successful examination results may remain valid for up to five years while the remaining certification requirements are completed. This is distinct from the two-year window and the two permitted retests for failed initial examination elements (Section 4). Passing an examination does not itself confer certification.

For any certification application, candidates shall:

a) provide acceptable documentary evidence of training under Section 3.2.2;
b) provide documentary evidence that the required industrial experience has been gained under supervision;
c) provide documentary evidence of acceptable visual acuity;
d) abide by the code of conduct published by the certification body;
e) provide other requisites requested by the certification body.

The applicant must provide a verified and recent passport size, quality photograph with applications for initial certification and recertification. The photograph will be provided to CWB electronically.

Consult the current CWB authorized examination centre and recognized training organization lists, together with remote written-examination options. Recognition of training from another certification body is addressed in Section 7; initial training validity does not exceed ten years from completion.

3.2 INITIAL NDT CERTIFICATION PROCESS

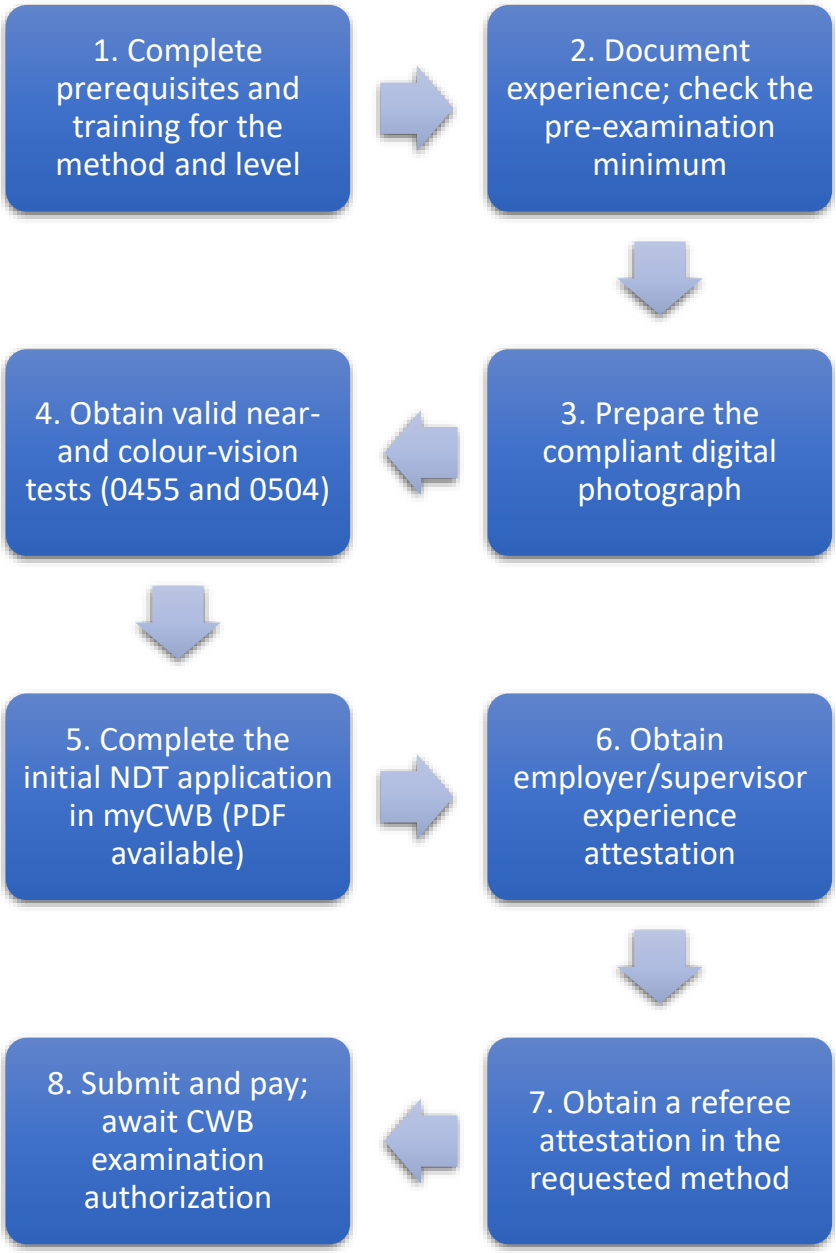
The basic eligibility requirements for Initial NDT Certification are:

a) Satisfactory vision per the standard requirements.
b) Acceptable NDT training under Section 3.2.2, including an accepted Level 3 theoretical self-study pathway where applicable.
c) Satisfying the minimum industrial NDT experience.
d) Passing the certification examinations applicable to the method, level and sector.
e) Has reached the age of majority in their province of residence.

To begin, submit the initial certification application through myCWB, the preferred route. Applicants who choose not to use the portal may submit the current PDF application under the CWB submission instructions (Section 1.1).

Current inspectors that would like to upgrade to a higher Level or attain an additional method will need to go through the initial certification process and complete the steps indicated above.

Typical Application Process:



3.2.1 Vision Requirements

Candidates and certificate holders shall maintain and provide documentary evidence of acceptable vision in accordance with the below requirements.

3.2.1.1 Near Vision Acuity

Prior to certification, and annually thereafter, near vision acuity shall be verified to be in accordance with the requirements of ISO 18490 or shall permit reading a minimum of Jaeger number 1 or Times Roman N4.5 or equivalent letters at not less than 30 cm with one or both eyes, either corrected or uncorrected.

Annual (every 12 months) testing and maintenance of records of the near vision acuity is the responsibility of the certificate holder and/or the employer. CWB NDT CB may ask for evidence of annual verification during renewal or recertification.

3.2.1.2 Colour Vision

Prior to certification, recertification or renewal, the candidate/certificate holder shall demonstrate that a colour vision test has been administered within the previous 5 calendar years.

It is required that colour vision and/or grey scale perception be sufficient for the individual to be able to distinguish and differentiate between the colours or shades of grey used in the NDT methods/techniques concerned as specified by the employer.

The colour vision test shall either confirm that the individual has acceptable colour vision without restriction or shall state any limitation(s) on colour perception.

Where any limitation in colour perception exists, the employer shall confirm whether or not this condition results in any limitation(s) to method or application specific techniques.

3.2.1.3 Personnel Administering Vision Tests

Near vision acuity testing, colour vision and/or grey scale perception verification(s) shall be administered by a licensed physician, nurse, ophthalmologist, or optometrist.

In lieu of a licensed physician, nurse, ophthalmologist, or optometrist, another trained professional who is approved and documented by a CGSB Level 3 personnel acting on behalf of the employer may be accepted by CWB NDT CB if the CGSB Level 3 personnel signs off on the test(s). Additional documentation for approval completed by CGSB Level-3 personnel shall be included with Vision Test form.

3.2.1.4 Vision Acuity Forms

Record near-vision results on Form 0455 and colour-vision results on Form 0504. The authorized test administrator must sign the record under Section 3.2.1.3. Where a trained professional approved by a Level 3 acting for the employer conducts the tests, also provide Form 0509. Obtain current forms from CWB and submit them through myCWB or with the PDF application.

Use of other documentation or forms may be possible so long as they comply with the latest version of CAN/CGSB-48.9712-2022, please contact CWB for details.

3.2.2 Training Requirements

Training used for initial certification remains valid for a maximum of ten years from completion (CAN/CGSB-48.9712-2022, 7.2.2). The certificate must identify the candidate, training organization, method, level, duration and completion date. This validity period does not remove the further-training requirements that apply after permitted re-examinations are exhausted.

3.2.2.1 Recognized Training Organizations (RTO)

CWB NDT CB recognizes, through a formal process, organizations that have specific criteria for delivering high quality, NDT focused training that is aligned with the requirements of CAN/CGSB-48.9712-2022, and approval as per CWB's certification and qualification procedures.

The list of Recognized Training Organizations (RTO) is published on CWB's website or can be obtained by contacting CWB directly. Summary of RTOs along with approved NDT methods and levels are listed on the website. The individual RTOs will have more information on the qualified programs and courses that are available.

3.2.2.2 Prerequisites

3.2.2.2.1 Math Skills Pre-Screening

To ensure that prospective candidates have sufficient mathematics background to be successful as a certified NDT personnel, RTOs will administer a math-skill examination prior to providing NDT training. This prerequisite is for training only and not required to be submitted for certification purposes.

3.2.2.2.2 Materials & Processes (M&P) Course

To ensure candidates have a background in the theoretical knowledge in relation to all NDT methods, the RTOs will deliver a (minimum 32-hour) course in materials and processes. Applicants must have a grade of 70% or above to pass the materials and processes examination.

3.2.2.2.3 Radiation Safety Training (RT Only)

RT certification is not yet offered. CWB will confirm the radiation-protection and examination requirements before this method opens; this guide does not authorize an RT examination application.

3.2.2.3 Minimum Training Durations

Programs or courses designed to comply with CWB NDT Personnel Certification must satisfy the minimum duration requirements per CAN/CGSB-48.9712-2022. The table below describes the minimum training durations in days for current methods/levels. One day duration is at least seven hours, which can be achieved on a single day or by accumulating hours.

Table 1 – Minimum Training Requirements

NDT Method	Level 1 (days)	Level 2 (days)	Level 3 (days)
PT	N/A	5	3
MT	N/A	5	4
UT	8	10	5
ET	5	6	6

For direct access to Level 2, add the Level 1 and Level 2 training durations. The five days stated for MT2 and PT2 already include both levels. For approved direct access to Level 3, add the Level 1, Level 2 and Level 3 durations.

For Levels 1 and 2, CWB requires 40% of the prescribed training duration to be practical, delivered face to face by an instructor. The remainder may be theoretical. Self-study is accepted for Level 3 only, as described below; it cannot replace Level 1 or Level 2 training.

3.2.2.3.1 Level 3 Self-Paced Training

CWB accepts documented Level 3 Self-Paced Training for the theoretical component of training, subject to satisfactory review of the method-specific Level 3 Self-Paced Training Report. Level 3 Self-Paced Training is only allowed for candidates that already possess RTO provided training or certificates at lower Levels.

The minimum Level 3 Self-Paced Training required are as below:

NDT Method	Level 3 (hours)
PT	21
MT	28
UT	35
ET	42

Self-Paced Training must cover all the syllabus topics per ISO 25107. Use the current CWB Level 3 Self-Paced Training Report for MT3, PT3, UT3 or ET3. Record actual study time by topic in 0.25-hour increments, identify at least one supporting reference for each applicable topic and reconcile subtotals with the total. Give the reference title, author or publisher, edition and relevant pages or clauses. Allocate a session covering several topics without counting the same time more than once. Breaks, meals, examination time, routine work and hours already credited elsewhere are excluded.

3.2.2.4 Reductions For Training

No current reductions in training time are offered.

3.2.3 Industrial NDT Experience

Industrial NDT experience (also known as Qualifying Work Experience or QWE) is vital to ensuring that candidates can apply and refine the knowledge gained in training to real-life practical situations. The candidate must indicate if they possess full, partial or no experience.

3.2.3.1 Minimum Durations

3.2.3.1.1 Prior to Examinations

CWB *encourages* applicants to consider completing some or all their industrial NDT experience prior to attempting practical examinations to allow time to practice hands-on processes to increase chances of success.

The minimum experience required before examinations is shown below. Direct access means applying at a level without prior certification at the lower level in the same method. All required experience must be accepted before certification is issued.

For Written Examinations:

- Level 1: 0%
- Level 2: 0%
- Level 3 direct access with higher education: 40%

For Practical Examinations:

- Level 1: 0%
- Level 2: 0%
- Level 2 practical prerequisite for Level 3 direct access

These percentages apply to the minimums listed in

Table 2 and may be subject to change. For example, minimum Industrial NDT Experience prior to attempting the UT Level 3 exam for direct access with higher education (per 3.2.3.2.2) would be 40% of 540 days = 216 days.

3.2.3.1.2 Minimum NDT Industrial Experience

Below is the minimum duration of qualifying work experience (QWE) that is required to attain certification for each NDT method and level. If a part of the experience is sought following successful examination, the results of the examination shall remain valid for a maximum of five years. Documented evidence of experience shall be confirmed by the employer and referee and submitted with application.

Table 2 - Minimum Industrial Experience (in Days)

NDT Method	Level 1	Level 2		Level 3		
		With Level 1	Direct Access	Higher Education with Level 2	With Level 2	Direct access with higher education
ET, UT	45	135	180	270	450	540
MT, PT	-	-	60	180	240	360
UT-PA	-	-	45	-	-	-

*One day duration is at least seven hours, which can be achieved on a single day or by accumulating hours. The maximum allowable hours in any one day is 12 hours. Experience in days is achieved by dividing the total accumulated hours by 7.

3.2.3.1.3 Experience when adding an additional sector/technique of the same method

To add a sector or technique to an existing certification, obtain and document additional experience directly related to the new sector or technique: at least 25% of the applicable Table 2 experience, and not less than 15 days (CAN/CGSB-48.9712-2022, 7.3.3.3). CWB confirms the calculation basis for the requested pathway.

3.2.3.2 Possible reductions For Industrial NDT Experience

As described hereafter, the possible reductions in duration of experience requires acceptance by CWB NDT CB.

3.2.3.2.1 Structured Experience Program (SEP)

A structured experience program (SEP) requires prior CWB approval and must be administered by a recognized training organization. Creditable attendance is limited to five days for each method, level and sector. Each SEP day may represent no more than five industrial-experience days. The credit is the lesser of 25 industrial days and 50% of the applicable experience requirement. Assigned tasks must be relevant to the method, level and sector.

For UT1 and ET1, the 45-day experience requirement limits SEP credit to 22.5 industrial days. For Level 2, the usual ceiling is 25 days, not 50% of the full requirement: this applies to the 60-day MT2/PT2 requirement, the 135-day UT2/ET2 upgrade requirement and the 180-day direct-entry requirement. Where another approved reduction applies, CWB also checks the 50% ceiling against the applicable reduced requirement and prevents double counting.

3.2.3.2.2 Experience for Higher Education for Level 3

A degree or diploma in engineering or materials science from a post-secondary institution can be used to qualify for a reduction in the minimum industrial experience hours required for Level 3 certification. Candidates must provide a copy of their degree or diploma as proof of their education to the CWB NDT CB. This proof should be included with their submission of work experience.

3.2.3.2.3 Adding an additional method:

A certified Level 1, 2, or 3 adding an additional method as stated below, is permitted a reduction of minimum industrial experience by 25% for that additional method:

- Level 2 - MT2, PT2
- Level 3 - All methods

No reduction in experience for adding new methods for:

- Level 1 - All methods
- Level 2 - UT, RT, ET

3.2.3.3 Employer/Supervisor Attestation Requirements

Employers/Supervisors must have direct influence and knowledge of the candidate's work and is ideally a certified individual per CAN/CGSB-48.9712-2022, of a higher level for the subject method being applied to by the candidate. If the supervisor is not a certified NDT personnel, they should possess the knowledge, skill, training, and experience required to properly perform such supervision. CWB may ask for additional documentation of qualifications of the supervisor during the review process.

Employer/Supervisor attestations are required for ANY work experience or work activity submitted.

3.2.3.4 Referee Attestation Requirements

For initial certification, including an additional method or a higher level, the referee must hold valid Level 2 or Level 3 certification to CAN/CGSB-48.9712 in the method requested. For renewal and recertification, a referee holding valid Level 2 or Level 3 certification to CAN/CGSB-48.9712 in any NDT method may attest the application; the referee does not have to hold each method being renewed or recertified. The same-method requirement for initial applications is a CWB scheme condition.

One referee may attest several methods at renewal or recertification when the referee has sufficient knowledge or verifiable records for each method and period. Method-specific employer or supervisor attestations remain required. The referee verifies the information and experience; CWB makes the certification decision. For an initial application without experience, the referee attestation is required when the acquired experience is submitted.

3.2.3.5 Photograph Requirements

CWB requires a digital photo for the purposes of identification and as part of the certificate/cards. A digital photograph is required for initial certifications and recertification and is *optional* for renewal (unless the renewal is for a certificate from another CGSB NDTCB).

Attach the digital photograph to the myCWB application or the PDF dossier under the CWB submission instructions. The following requirements apply:

- must be taken in person by a professional photographer no more than 6 months before the date you submit your application
- face and shoulders centered and squared to the camera with a neutral face expression
- uniform lighting with a plain white or light background with a clear difference between your face and the background
- chin to crown (top of your head) should be between 45 to 50% of the photo's height
- photographs with sunglasses, tinted glasses, hats or any self-taken photographs are **not permitted**.
- must be in JPEG format in colour or black and white saved directly from the original file (no scans or any altering)
- The width-to-height ratio must be 2:3 (portrait). Minimum dimensions are 1,200 pixels wide by 1,800 high; maximum dimensions are 3,000 pixels wide by 4,500 high.
- File size must be between 200kb and 4MB in size, maximum two photos per submission.
- Additional photos may be requested if they do not meet the criteria.

3.2.4 Initial Certification Examinations

Arrangement of examinations for initial certification requires the minimum to be submitted:

1. Complete the initial certification application in myCWB (preferred) or use the current PDF application.
2. Acceptable Near Vision and Colour Vision (such as CWB NDT CB Vision Acuity Form 0455/0504) per 3.2.1.
3. Acceptable training evidence under Section 3.2.2.

A candidate may be authorized to take examinations before completing all industrial experience, subject to the applicable pre-examination minimum in Section 3.2.3.1.1 and acceptance of vision and training evidence. Direct-entry Level 3 candidates are not exempt from that minimum. All experience and required attestations must be accepted before certification.

CWB reviews the dossier and issues authorization identifying the eligible method, level and examination elements. Book only those elements. Written NDT multiple-choice examinations are available through ProctorU and at approved centres. Hands-on practical examinations remain in person at an approved NDT AEC. Delivery arrangements for Level 3 procedures are stated in the authorization.

After a first failure of an initial-certification element, no more than two re-examinations of that element are permitted, after at least one month and within two years of the initial examination. Further training is not routinely required for these two retests when the normal interval is observed. CWB may shorten the interval after satisfactory further training that it accepts. After failure of the second retest of the same element (three failures in total), further training is mandatory before a new application, followed

by all required examination elements. The examiner determines the training content under CWB authority; repeating the method course is the default. See Section 4.

3.2.4.1 Arrangement of Examinations

After authorization, select an available delivery route. For in-person examinations, agree the date, equipment and invigilation or facility fees with the AEC. For ProctorU, follow the CWB-issued NDT booking instructions. Check the language, date, time zone, permitted materials and cancellation conditions. CWB fees are listed in Form 505; additional proctoring charges are confirmed when booking.

For ProctorU, use a compatible computer with a webcam, microphone, speakers, one active monitor and a stable connection. Run the provider's equipment test on the same computer and network and install the specified browser or application. Resolve work-computer permissions in advance. Use a private, quiet, well-lit room and have valid identification and CWB authorization available. Phones and unauthorized devices are not examination aids.

The proctor verifies identity, the room and the computer. Supervision may include screen, audio and video recording under the displayed conditions. Use only authorized calculators, rough work and references, and follow break and closing instructions. Report technical problems immediately, retain the support case number and inform CWB. An interruption is not automatically a failure or a free retest.

Booking information: CWB Examination Centres Directory. See Form 506, Section 2, for detailed preparation guidance.

3.2.4.2 Examination Accommodations

Request accommodation from CWB and obtain approval before booking, including for ProctorU. CWB reviews the need and confirms reasonable arrangements. The invigilator cannot independently change the approved time, aids or rules.

3.2.4.3 Exam Confidentiality

All candidates must review in detail and accept the examination confidentiality agreement prior to beginning any examination. The agreement must be strictly followed to ensure the security of the examination system. Any violation of the agreement will result in disciplinary action and may lead to banning from all CWB certifications.

3.2.4.4 Examination Conduct

At the examination, the candidate shall have in their possession valid proof of identification and an official notification of the examination, which shall be shown to the examiner or invigilator prior to the exam.

Any candidate who, during the course of the examination, does not abide by the examination rules or who perpetrates, or is an accessory to, fraudulent conduct shall be excluded from all further examinations for a period of at least one year.

Use only the documents, equipment and aids specifically authorized for the examination. Third-party assistance, AI assistance, photographs, copying and personal recording of examination content are prohibited.

3.2.4.5 Examination Details

The elements, durations and specimen numbers are summarized below and detailed by method in Annex A. Form 506 provides preparation instructions and study references, including the applicable reference materials. Annex B explains practical grading. Study references are not necessarily examination aids; only the authorized materials may be used.

3.2.4.5.1 Level 1

Examination requirements for Level 1 certification comprise of a:

- General Examination Element
- Specific Examination (EMC sector) Element
- Practical Examination Element

3.2.4.5.1.1 General Examination Level 1

This examination tests the applicant's knowledge of the theory and general applications of the particular NDT method at Level 1. This exam consists of multiple-choice questions.

- UT/ET: 40 multiple-choice questions
- Duration: 2 minutes per question
- Passing Mark: 70%

3.2.4.5.1.2 Specific Examination Level 1

This examination tests the applicant's knowledge of the Industrial Sector and the application of the NDT method to the EMC sector. This exam consists of multiple-choice questions.

- UT/ET: 40 multiple-choice questions
- Duration: 3 minutes per question
- Passing Mark: 70%

3.2.4.5.1.3 Practical Examination Level 1

This examination assesses practical application of UT or ET in the EMC sector. It may include the following requirements:

- Detailed description and illustration of the equipment set-up and/or test procedure and test parameters for a particular application.
- The recognition and identification of discontinuities as shown by the test and which includes general knowledge of the mechanism giving rise to the discontinuities.
- Accurate reporting concerning geometry, location and sizing revealed by the test procedure.

3.2.4.5.2 Practical Examination Duration and Assessment:

- UT/ET: 8 hours maximum
- A minimum pass mark of 70% is required for each specimen.

Failure to detect a mandatory discontinuity may result in failure under the examination criteria.

Excessive false calls, meaning reported discontinuities that are not present, may result in failure under the approved examination criteria.

Failure to meet critical examination requirements may result in failure, including:

- Minimum reporting requirements (all methods)
- Scanning techniques and coverage (UT)

3.2.4.5.3 Level 2

Examination requirements for Level 2 certification comprise of a:

- General Examination Element
- Specific Examination Element
- Practical Examination Element
- NDT Instruction Writing Element

3.2.4.5.3.1 General Examination - Level 2

This examination tests the applicant's knowledge of the theory and general applications of the particular NDT method at Level 2. This exam consists of multiple-choice questions.

- All Methods: 40 multiple-choice questions
- Duration: 2 minutes per question
- Passing Mark: 70%

3.2.4.5.3.2 Specific Examination - Level 2

This examination tests the applicant's knowledge and the application of the NDT method to the Industrial Sector (EMC). This exam consists of multiple-choice questions.

- PT/MT: 50 multiple-choice questions
- UT: 70 multiple-choice questions; ET: 60 multiple-choice questions
- Duration: 3 minutes per question (MT/PT: 2 h 30 min; UT: 3 h 30 min; ET: 3 h)
- Passing Mark: 70%

PAUT2 uses the separate 30-question, 90-minute specific examination in Annex A; conventional UT question counts do not apply to that technique examination.

3.2.4.5.3.3 Practical Examination Level 2

This examination requires the practical application of the NDT method to the Industry Sector (EMC) for which application is made. The Practical Examination may include any or all (but is not limited to) the following requirements:

- Detailed description and illustration of the equipment set-up and/or test procedure and test parameters for a particular application.
- The recognition and identification of discontinuities as shown by the test and which includes general knowledge of the mechanism giving rise to the discontinuities.
- Accurate reporting concerning geometry, location and sizing revealed by the test procedure.
- Write a usable NDT instruction for Level 1 personnel covering the assigned method, specimen and sector.

Each practical specimen and the written instruction must separately achieve at least 70%. Annex B describes the assessment areas.

Practical Examination Duration and Assessment:

- PT: 4 hours maximum
- MT: 8 hours maximum
- UT/ET: 16 hours for specimens and the written instruction, plus 4 hours of direct-entry preliminary checks when required, for a total of 20 hours.
- A minimum pass mark of 70% is required for each specimen and section.
- PAUT2: two welds and one corrosion plate, three specimens in total, in 12 hours; the written instruction has a separate 2-hour allowance (Annex A).

Failure to detect or correctly evaluate a mandatory discontinuity may result in failure under the examination criteria.

Excessive false calls and failure to meet critical controls are assessed under the approved marking scheme and may result in failure.

Critical requirements include:

- Minimum reporting requirements (all methods)
- Scanning techniques and coverage (UT)

3.2.4.5.4 Level 3

- A minimum of 70% is required separately for each of Basic Parts A, B and C and main-method Parts D, E and F. A higher combined average cannot compensate for a failed part.

3.2.4.5.4.1 Basic examination element

The Basic examination assesses the following subjects under the CWB examination schedule.

Table 3 — Level 3 Basic examination: CWB schedule

Item	Subject	Number of questions	Duration
A	Technical knowledge in materials, science and process technology.	70	4 h total
B	Knowledge of the certification body's qualification and certification system based on this document and CAN/CGSB.48-9712-2022.	10	
C	Level 2 knowledge across four NDT methods, including at least one volumetric method (UT or RT); 15 questions per method.	60	

The Basic examination should normally be passed first. It remains valid if the first main-method examination is passed within five years. A valid Level 3 certificate may provide an exemption after CWB recognition review. Part C covers four NDT methods and must include at least one volumetric method, UT or RT. Note: RT questions for the Basic Part C examination are available.

3.2.4.5.4.2 Main method examination element

The main-method examination comprises Parts D, E and F below. Permitted references and extracts are identified in the examination instructions; access to codes does not authorize personal notes.

Table 4 — Level 3 main-method examination: CWB schedule

Item	Subject	Number of questions	Duration
D	Level 3 knowledge relating to the NDT test method applied.	30	1 hour
E	Application in the EMC sector: 30 application questions and 10 code-related questions.	40	2 hrs
F	Drafting of one or more NDT procedures in the relevant sector. The applicable codes, standards, specifications, and other procedures shall be available to the candidate. For a candidate who has already drafted an NDT procedure in a successfully passed Level 3 examination, the certification body may replace the drafting of a procedure with the critical analysis of an existing NDT procedure covering the relevant method and sector and containing errors and/or omissions.	—	4 hrs for drafting 1.5 hrs for review only

For critical review, examine the complete procedure, tables and attachments and provide technically complete, traceable corrections. Merely marking an item incorrect is insufficient. The assignment specifies supplied references and permitted examination aids. Do not invent acceptance criteria. Part F is assessed under Table D.3, summarized in Annex B.

3.2.4.5.4.3 Level 2 Practical Competence

CWB reviews Level 2 certification and practical-examination history in the same method and sector. The CWB scheme applies a ten-year practical-history recognition provision. A valid Level 2 certificate or an accepted relevant practical result may provide an exemption, subject to CWB review. Obtain the exemption decision before booking.

When a Level 2 practical is required for initial Level 3 certification, Level 2 instruction writing is excluded (CAN/CGSB-48.9712-2022, 8.3.1). The authorization identifies the specimens, checks and time allowance. This exclusion does not remove the separate Level 3 Part F procedure examination.

3.2.4.5.4.4 Exemptions

For an additional or different sector in the same Level 3 method, pass Parts E and F for the new sector. Basic and Part D of the method need not be repeated (CAN/CGSB-48.9712-2022, 8.6.2).

A holder of a valid Level 3 certificate is exempt from repeating Basic, subject to CWB recognition. For a first Level 3 certification, pass the first main-method examination within five years of Basic. An additional method still requires the applicable main-method examination and Level 2 practical-competence prerequisite.

3.2.5 CERTIFICATION AND EXPIRY

Consideration for certification requires successful completion of the examinations, submission of **all** Industrial NDT Experience and all requested documentation per the application. CWB NDT CB may ask the candidate, their employer, supervisors, or referee for more information about the application, as required.

Vision tests must be valid at the time of certification. It is the responsibility of the candidate to ensure that the near vision and colour vision **meet the requirements prior to examination and also prior to issue of certification**. Candidates may be asked to submit new visual acuity form(s) before certification is issued.

A candidate who meets certification requirements shall be notified of their certification in the method(s) and level(s) and sector via email. Digital certificates shall be issued by email along with a wallet card via mail. The certification will be valid from the date of issue and up to 60 months (five years) from that date.

Certificate holders must inform the certification body, without delay, of matters that can affect the capability of the certified person to continue to fulfil the certification requirements.

Once a certification passes its expiry date, the personnel is no longer certified. Certified personnel must ensure that they renew/recertify prior to the expiry date and CWB may accept applications up to 12 months prior to the expiry.

3.3 RENEWAL AND RECERTIFICATION

3.3.1 Renewal Process

Before the end of the validity period following initial certification or recertification, the holder must initiate renewal for a further period of no more than five years. The holder is responsible for a complete application and completion before expiry, whether or not a reminder is received. CWB accepts applications up to twelve months in advance. The requirements are:

a) documentary evidence of a satisfactory near vision acuity examination taken within the preceding 12 months; **and**
b) documentary evidence of a satisfactory colour vision and/or grey scale perception examination taken within the preceding 60 months; **and**
c) verifiable documentary evidence of continued satisfactory work activity without significant interruption in the method and sector for which certificate renewal is sought;

and either:

d) successful completion of the reduced renewal practical assignment for Levels 1 and 2 in Annex A, based on at least 50% of the specimens required for recertification, with a separately assessed written instruction for Level 2; or
e) successfully meeting the requirements of the structured credit system as given in Section 3.3.4. Level 3 holders who do not meet the renewal requirements follow Section 3.3.2.2 (CAN/CGSB-48.9712-2022, 10.5).

If the criterion c) for renewal is not met, the individual shall follow the same rules as for recertification.

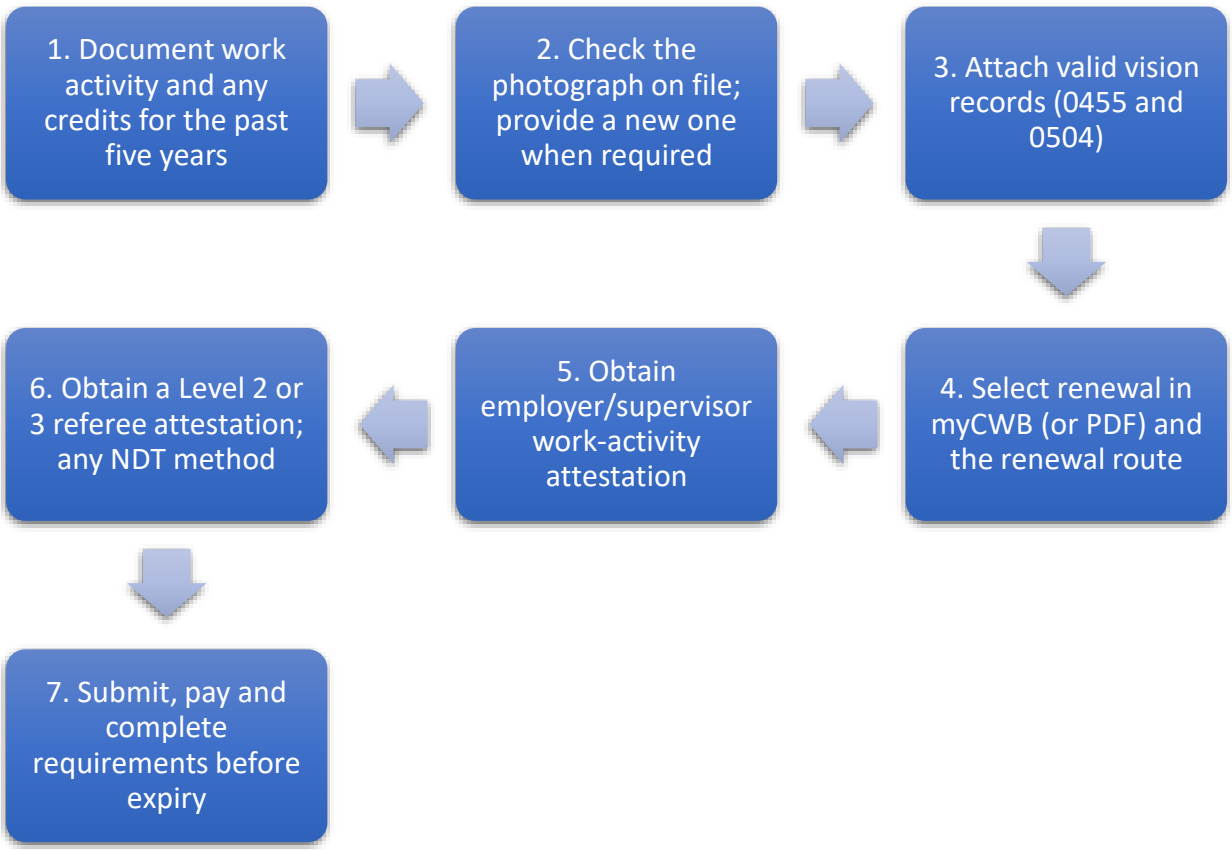
Submit renewal through myCWB (preferred) or use the current PDF renewal form. Include vision records, continued-work evidence, employer/supervisor and referee attestations, and the selected structured-credit or practical-examination route. CWB confirms acceptance, any missing information and authorized examinations. The application does not extend certification.

For the Level 2 renewal practical-examination route, the candidate must also produce a written NDT instruction suitable for Level 1 personnel. The specimen and instruction are graded separately and must each achieve at least 70%. The instruction is included in the stated renewal session duration. This requirement does not apply to an accepted structured-credit renewal or to a Level 1 practical examination. See CAN/CGSB-48.9712-2022, 10.1(d) and 11.2.2.

A declined structured-credit renewal application is a documentary decision, not an examination failure, and does not consume a practical-examination attempt. Provide any requested evidence or use the applicable examination route. Neither the application nor a booking extends the certificate.

A timely renewal preserves the existing certification cycle. A late reinstatement takes effect when the requirements are met and does not cover the lapse retrospectively; the next expiry remains limited to five years after the previous expiry.

How to apply for renewal:



3.3.2 RECERTIFICATION PROCESS

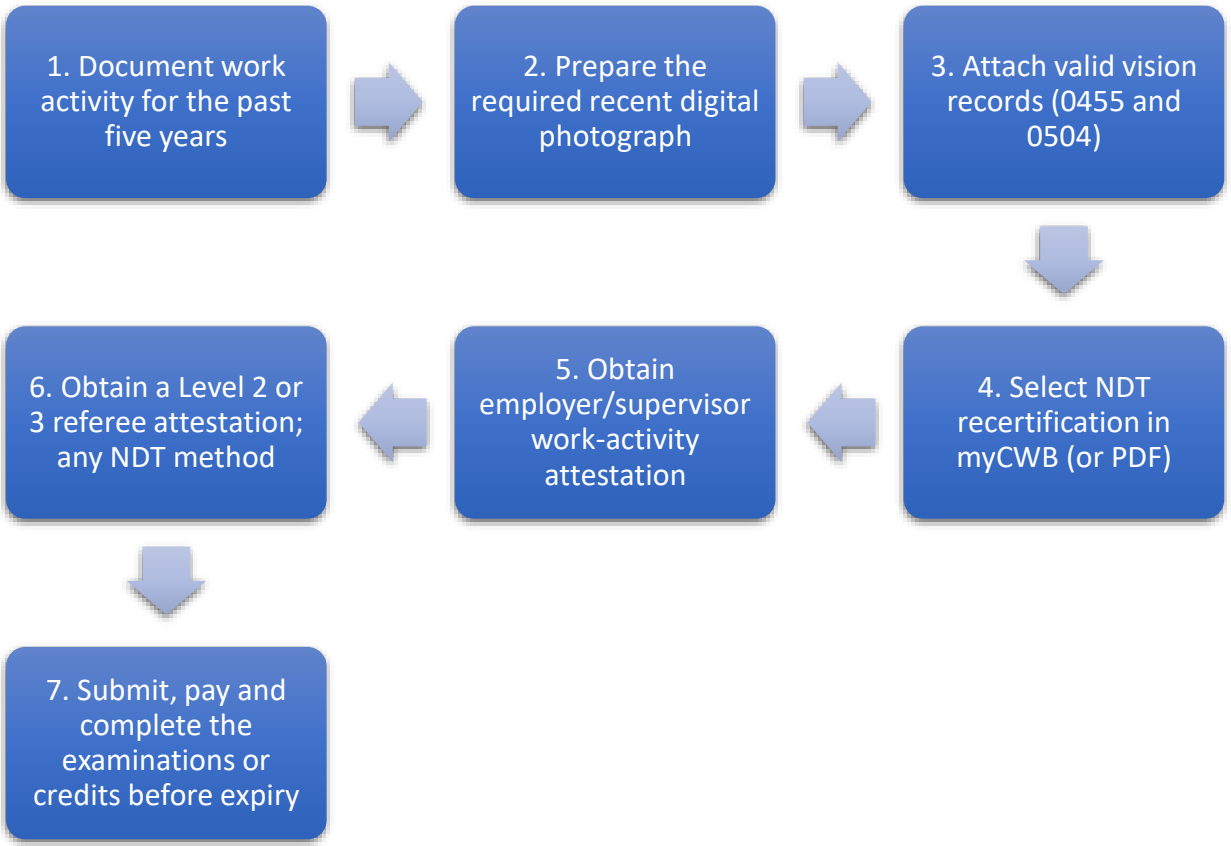
Prior to the completion of each second period of validity (i.e. 10 years from initial certification), the certified individual shall be recertified by the certification body for a new period of five years or less, provided the individual produces (**Note: It is the responsibility of the certificate holder to initiate this process**):

a) documentary evidence of a satisfactory near vision acuity examination taken within the preceding 12 months; and
b) documentary evidence of a satisfactory colour vision and/or grey scale perception examination taken within the preceding 60 months; and
c) verifiable documentary evidence of continued satisfactory work activity without significant interruption in the method and sector for which certificate renewal is sought; and
d) the applicable recertification requirements of 3.3.2.1 or 3.3.2.2.

It is the responsibility of the certificate holders to initiate the procedures required to obtain recertification, starting at **up to 12 months before expiry**. If the recertification is applied for more than 12 months after expiry of the period of validity, a complete examination (general, specific, and practical) for Level 1 and Level 2 and a main method examination element for Level 3 shall again be passed successfully.

Submit the recertification application through myCWB (preferred), or use the current PDF recertification form. Include the required vision, work-activity, attestation and photograph evidence. CWB confirms the pathway and authorized examinations. Do not use a renewal form in place of a recertification application.

How to apply for recertification:



3.3.2.1 Levels 1 and 2 Practical Examination

Level 1/2 recertification uses the reduced assignment in Annex A, not the complete initial practical. CWB selects specimens and techniques appropriate to the method, sector and relevant work activity. Level 2 also requires a written instruction suitable for Level 1 personnel. Each specimen and instruction must separately achieve at least 70%.

After a failed recertification attempt, no more than two retests are permitted, at least seven days apart and within twelve months of the first attempt. Repeat only the failed elements or specimen assignments identified in CWB authorization; already-passed work is not automatically repeated. A different physical specimen may be assigned. See Annex B for grading and Section 4 for retest rules.

Applications may be submitted up to twelve months before expiry. Timely recertification preserves the cycle: the next expiry is no more than five years after the previous expiry. Early examination completion does not restart the cycle from the examination date.

Where requirements are completed after expiry, reinstated certification takes effect when all requirements have been met and does not retrospectively cover the lapse. Its expiry remains no more than five years after the previous certificate expiry.

After failure of both permitted retests, certification is withdrawn. Reinstatement requires further training acceptable to CWB and successful completion of all initial-certification examination elements.

The date of expiration of the reinstated certificate shall be no more than 5 years from the date of expiration of the original certificate.

In this case, no examination exemptions shall be awarded by virtue of any other valid certification held.

3.3.2.2 Level 3 Recertification

For Level 3 recertification, applicants must demonstrate continued practical competence under CAN/CGSB-48.9712-2022, 11.3.1. For the knowledge assessment, choose one of the following routes:

a) pass the 50-question written recertification examination in 2 h 30 min: 10 certification-scheme questions, 30 method-application questions and 10 code-related questions; or
b) meet the Level 3 structured-credit requirements in Section 3.3.4.2.

Under either route, provide documented evidence of continued practical competence acceptable to CWB or pass a Level 2 practical examination, excluding instruction writing. There is no separate Level 3 practical examination. Each specimen tested and the written examination, where required, must achieve at least 70%.

The direct written route allows no more than two retests within twelve months of the first examination unless CWB grants a permitted extension. A declined credit application is not an examination failure. However, under CAN/CGSB-48.9712-2022, 11.3.6, after an unsuccessful credit application and failure of the first subsequent written examination, only one retest is permitted within twelve months of the credit application.

After the permitted retests are exhausted, certification is withdrawn. Reinstatement requires further training acceptable to CWB and successful completion of main-method Parts D, E and F. A new Basic examination is not automatically required in this case.

3.3.3 Work Activity

To support the requirement to provide evidence of satisfactory work experience for renewal and recertification, CWB expects the candidate to explain their duties in detail related to the subject NDT method/level/sector.

The following work activities may be considered as acceptable based on the level and employer's responsibilities:

- knowledge and understanding of the customer's specifications and the inspection standards
- verification of operating conditions or setting up of the test equipment, successful performance of NDT, satisfactory reporting
- performance as a Level 3 examiner

To assess the activities, the certification body may request from the individual seeking renewal or Level 3 recertification documentation and/or evidence to demonstrate compliance including, but not limited to, the following:

- confirmation of the candidates work activities by a certified individual or referee
- confirmation of the level of activity of the individual in the given method
- confirmation of formal documented competency or proficiency test(s) in the given method
- dates and protocol numbers of reports
- details of any job specific training received
- confirmation of employer's authorization to operate
- summary of activities and outputs
- job/position description
- annual/regular employer assessments of performance/competence
- sample NDT reports
- sample procedure(s) developed (Level 3 only)
- customer feedback
- confirmation of adherence to code of ethics from employer
- confirmation of compliance with additional national requirements (i.e. radiation safety)

Other evidence may be deemed acceptable or be requested by the certification body. The certification body may require that some or all of the submitted evidence be confirmed by the employer.

The work activity must be verified by an employer or supervisor which has firsthand knowledge of the candidate's work.

A significant interruption is an absence or change of activity preventing practice in the certified method and sector for more than one continuous year, or for periods totalling more than two years. Legal holidays and periods of sickness or training shorter than thirty days are excluded (CAN/CGSB-48.9712-2022, 3.38). Notify CWB without waiting for the certificate expiry.

3.3.4 Structured Credit System

The structured credit system is a point-based credit system where the activities performed by the candidate in the 5-year period are tallied to show that NDT personnel are actively participating in the maintenance of their skills and experience to support requirements for renewals at all levels and Level 3

recertification. Personnel must fill out the Structured Credit portion of the Renewal or Recertification (for Level 3 only) with the tallied number of occurrences per certification year. Certification year is defined as 12-month periods from issue date of the certificate.

Personnel must also submit documentary evidence for all of these activities (evidence of Work Activity submitted under 3.3.3 will be considered for Performance of NDT Activities), if the evidence requires submission of employer's documents, the individual shall provide to CWB a written statement of approval from the employer.

The table below (adapted from CAN/CGSB-48.9712-2022, Annex C) outlines the activities and points associated:

Table 5 – Structured credit system for renewal Level 1, 2 and 3 and for Level 3 recertification

		Level 1			Level 2			Level 3		
Item	Activity	Points granted per activity	Maximum number of points per year of activity	Maximum number of points over 5 years of activity	Points granted per activity	Maximum number of points per year of activity	Maximum number of points over 5 years of activity	Points granted per activity	Maximum number of points per year of activity	Maximum number of points over 5 years of activity
					Part A					
1	Performance of NDT Activities (see 3.3.3)	2 / day	25	95	2 / day	25	95	2 / day	25	95
2	Completion of theoretical training in the method	1 / day	5	15	1 / day	5	15	1 / day	5	15
3	Completion of practical training in the method	2 / day	10	25	2 / day	10	25	2 / day	10	25
4	Delivery of practical or theoretical training in NDT in the method considered	N/A	N/A	N/A	1 / day	15	75	1 / day	15	75
5	Participation in research activities in NDT field or for engineering of NDT	1 / week	15	60	1 / week	15	60	1 / week	15	60
					Part B					
6	Participation to a technical seminar/paper in the field of the method or technique	1 / day	2	10	1 / day	2	10	1 / day	2	10
7	Presenting a technical seminar/ paper in the field of the method or technique	1 / presentation	3	15	1 / presentation	3	15	1 / presentation	3	15
8	Current individual membership in NDT or NDT related society	1 / membership	2	5	1 / membership	2	5	1 / membership	2	5
9	Technical oversight and mentoring of NDT personnel/ trainee in the relevant method	N/A	N/A	N/A	2 / mentee	10	30	2 / mentee	10	40
10	Participation or convenorship in standardization and technical committees	N/A	N/A	N/A	1 / committee	3	15	1 / committee	4	20
11	Performing a technical NDT role within a certification body	N/A	N/A	N/A	2 / activity	10	30	2 / activity	10	40

NOTE Where the term “year(s)” is noted in this table, this is specified as a certification year and not as a calendar year (ie. 12-month periods from issue date).

*See3.3.3 for specific details of this activity.

3.3.4.1 Renewal (All levels)

Applicants using structured credits must provide evidence of at least 100 points over the five-year renewal period under Table 5.

- Level 1: at least 75 of the 100 points must come from Part A of Table 5.
- Level 2 or 3: at least 50 of the 100 points must come from Part A of Table 5.

3.3.4.2 Recertification (Level 3 only)

Level 3 applicants using structured credits for recertification must provide evidence of at least 100 points over the applicable five-year period under Table 5.

- At least 50 and no more than 70 points must come from Part A of Table 5; and
- at least 30 and no more than 50 points must come from Part B of Table 5.

4 RE-EXAMINATIONS

The requirements for re-examinations are as follows:

1. A candidate excluded for unethical behaviour must wait at least twelve months before reapplying. CWB may impose a longer exclusion.
2. Pay the applicable CWB re-examination fees before authorization. AEC, facility and remote-proctoring charges follow the confirmed booking arrangements.
3. For Initial Certifications:
    a) A candidate who fails one or more elements of an examination (i.e. general, specific, practical, etc.) may retake the failed examination no more than twice:
        i. after at least one month; CWB may reduce this interval after acceptable further training, but training is not routinely required when the normal interval is observed
        ii. no later than two years after the initial examination
    b) After two failed retests of the same initial element (three failures in total), complete further training acceptable to CWB before a new application and repeat all required examination elements. The examiner determines the training content under CWB authority; the method course is the default.
4. For Renewals
    a) Two re-examinations of the renewal examination shall be allowed after at least 7 days and within 12 months of the first attempt at the renewal examination.
    b) In the event of failure in the two allowable re-examinations, the certificate shall be withdrawn. In order to reinstate certification, a candidate shall:
        i. complete further training, acceptable to CWB; and
        ii. retake all examination elements required for recertification.
5. For Level 1 and Level 2 Recertification:
    a) Two re-examinations of the recertification examination shall be allowed after at least 7 days and within 12 months of the first attempt at the recertification examination.
    b) In the event of failure in the two allowable re-examinations, the certificate shall be withdrawn. In order to reinstate certification, a candidate shall:
        i. complete further training, acceptable to CWB; and

ii. retake all examination elements required for initial certification.

6. Practical Re-examinations:

A candidate repeats only the failed practical element or specimen assignment authorized by CWB.
Example: a UT2 candidate obtains the following results.
Specimens 1, 2, 3 and 4: 86%, 90%, 57% and 82%, respectively. Written instruction: 75%.
Overall result: fail. Only specimen 3 is below 70%; the other specimens and the written instruction have passed. The required re-examination is the replacement assignment for specimen 3. Passed results remain subject to the applicable validity and attempt limits.

CWB assigns the retest specimens for the relevant scope and technique; they may differ from the initial specimens. Failed instruction writing and separately assessed calibration elements are repeated independently. The time allowance reflects the work assigned. For Level 3, apply the route-specific provisions in Section 3.3.2.2; declined structured credits are not a failed examination result.

5 LAPSED CERTIFICATIONS

The Canadian Welding Bureau (CWB) will strive to provide sufficient advance notice to certificate holders before their certification expires. **The responsibility for maintaining certification lies with the certificate holder, who should initiate renewal or recertification procedures well in advance of the expiration date.**

Employer operating authorization does not extend or reinstate an expired certification. The holder must not represent an expired method or scope as certified and must inform the employer or client.

If a certificate holder continues working with an expired certificate without informing their employer or client, they bear full responsibility and may face disciplinary action.

Renewal and Recertification can be applied for up to 12 months after expiry, with a late renewal fee.

A certificate will be considered lapsed if more than 12 months have passed from the expiry date of the certification.

After twelve months of expiry, CWB confirms the applicable reinstatement route. The following minimum requirements apply:

- A late renewal follows the applicable recertification requirements as determined by CWB; documentary credits do not retrospectively cover an expired period.
- For recertification requested more than twelve months after expiry, Levels 1 and 2 must pass the initial examination elements. Level 3 must pass Parts D, E and F.
- Beyond 2 years after the expiration date, a new initial certification application will be required for the expired subject/method

Certification reinstated after expiry takes effect when all requirements are met. Its expiry does not exceed five years after the previous expiry. A pending application is not an extension.

6 SUSPENSION AND WITHDRAWAL OF CERTIFICATION

6.1 SUSPENSION OF CERTIFICATION

Certification may be suspended by CWB:

a) if the individual becomes temporarily physically incapable of performing their duties
b) if the individual fails to provide evidence of meeting the visual acuity requirements of this document annually
c) if a significant interruption takes place in the method for which the individual is certified
d) at the discretion of CWB for any other situations

CWB will review these on a case-by-case basis and determine the conditions for revalidation of the certification.

6.2 WITHDRAWAL OF CERTIFICATION

Certification shall be withdrawn by CWB:

a) at the discretion of CWB, i.e. after reviewing evidence of behaviour incompatible with the certification scheme or failure to abide by a code of conduct
b) if the individual fails to meet the requirements of renewal, until such time as the individual meets the requirements for renewal
c) if the individual fails recertification, until such time as the individual meets the requirements for recertification or certification
d) at the discretion of CWB, when verifiable evidence is received from the employer stating that the individual has become physically incapable of performing their duties

6.2.1 Certification after withdrawal

For 6.2 a) the certification can only be granted again after a minimum 12 month waiting period, CWB NDT CB will determine the actual period based on the severity of the violation.

For withdrawal because of physical incapacity, the holder must provide evidence acceptable to CWB that the duties can again be performed and complete the applicable recertification requirements for the method, level and sector.

7 Certification Issued by Other Certification Bodies

7.1 Other CAN/CGSB-48.9712-2022 Certificates

CWB will fully recognize existing and active CAN/CGSB-48.9712-2022 certificates provided the other certification body is compliant with the CAN/CGSB-48.9712-2022 standard. CWB may issue an alternate registration number to the individual if renewal or recertification is completed with CWB's scheme.

NDT training completed with a recognized training organization under another CAN/CGSB-48.9712-compliant certification body may be recognized within ten years of completion, subject to CWB review.

7.2 Other International ISO 9712 Certifications

Currently, CWB will review these certificates on a case-by-case basis. This may include a review of education, training, experience, vision, and examination requirements of the originating certification body. CWB will determine if the individual has credits and where they can be applied to the application process. The requests may include completing elements of examinations or may ultimately require a new initial application.

CWB strives to develop a more consistent and streamlined process and anticipates updates to the recognition of other ISO 9712 certificates in the future.

8 COMPLAINTS AND APPEALS

The CWB Group is committed to ensure a transparent and impartial approach to our certification programs for companies, individuals and products.

Complaints and appeals related to the activities and/or decisions of the CWB Group or related to the organizations, individuals and products we certify, can be made to the CWB Group's Registrar. All complaints and appeals and resulting outcomes will be documented and communicated back to the complainant or appellant.

Complaints and appeals can be made directly to CWB Group by calling 1-800-844-6790 or can be made through our external ConfidenceLine program (1-800-661-9675).

9 FEES

See Form 505 for the fee schedule. Pricing is subject to change at CWB's discretion.

10 REFERENCES

The certification basis for this guide is CAN/CGSB-48.9712-2022 (ISO 9712:2021, IDT). Use the examination-basis editions specified by CWB. A newly published edition does not automatically change the examination requirements.

CAN/CGSB-48-9712-2022: Non-destructive Testing – Qualification and Certification of NDT Personnel (ISO 9712, IDT)

ISO 9712: Non-destructive testing Qualification and certification of NDT personnel

ISO/IEC 17024: Conformity Assessment – General requirements for bodies operating certification of persons

ISO 18490: Non-destructive testing – Evaluation of vision acuity of NDT personnel

ISO/TS 25107: Non-destructive testing – NDT training syllabuses

ISO/TS 25108: Non-destructive testing – NDT personnel training organisations

ANNEX A: NDT EXAMINATION SCHEME

INITIAL EXAMINATIONS

Penetrant Testing

Penetrant Testing Level 2

Exam Elements	Exam Questions & Parts	Duration	Pass Grade
PT2 General Written	• 40 multiple choice questions on PT theory	1 hour 20 mins	70% or higher
PT2 Specific (EMC) Written	• 50 multiple choice questions ○ 20 M&P ○ 10 Codes ○ 20 applications	2.5 hours	70% or higher
PT2 Practical (EMC)	• Performance & Calibration Checks • Inspect 4 specimens ○ 3 fluorescent ○ 1 colour contrast, solvent removable • Written Instruction for one of the inspected specimen	4 hours	70% or higher for each part

Penetrant Testing Level 3

Exam Elements	Exam Questions & Parts	Duration	Pass Grade
PT3 Basic Written (Part A, B and C)	140 multiple choice questions • Part A ○ 30 general M&P questions ○ 40 M&P and discontinuities specific to products forms • Part B ○ 10 questions on CAN/CGSB-48.9712-2022 • Part C ○ 60 questions on other NDT methods	4 hours	70% or higher in each of A, B and C
PT3 General Written - Part D	30 multiple choice questions on PT theory	1 hour	70% or higher
PT3 Specific (EMC) Written – Part E	40 multiple-choice questions: 30 on PT applications and 10 on codes.	2 hours	70% or higher
PT3 Procedure Writing Or Procedure Review	• NDT Procedure writing required for first L3 certification • Review of NDT procedure as option for adding L3 certifications	4 hours Or 1.5 hours	70% or higher
PT2 Practical (EMC)	• Required only where CWB has not recognized the relevant Level 2 practical competence in the same method and sector. Level 2 instruction writing is excluded.	4 hours	70% or higher for each part

Magnetic Testing Exams

Magnetic Testing Level 2

Exam Elements	Exam Questions & Parts	Duration	Pass Grade
MT2 General Written	• 40 multiple choice questions on MT theory	1 hour 20 mins	70% or higher
MT2 Specific (EMC) Written	• 50 multiple choice questions ○ 20 M&P ○ 10 Codes ○ 20 applications	2.5 hours	70% or higher
MT2 Practical (EMC)	• Performance & Calibration Checks • Inspect 4 specimens ○ 2 yoke ○ 2 wet fluorescent • Written Instruction for one of the inspected specimen	8 hours	70% or higher for each part

Magnetic Testing Level 3

Exam Elements	Exam Questions & Parts	Duration	Pass Grade
MT3 Basic Written (Part A, B and C)	140 multiple choice questions • Part A ○ 30 general M&P questions ○ 40 M&P and discontinuities specific to products forms • Part B ○ 10 questions on CAN/CGSB-48.9712-2022 • Part C ○ 60 questions on other NDT methods	4 hours	70% or higher in each of A, B and C
MT3 General Written - Part D	30 multiple choice questions on MT theory	1 hour	70% or higher
MT3 Specific (EMC) Written – Part E	40 multiple choice questions • 30 on MT applications • 10 on codes	2 hours	70% or higher
MT3 Procedure Writing Or Procedure Review	• NDT Procedure writing required for first L3 certification • Review of NDT procedure as option for adding L3 certifications	4 hours Or 1.5 hours	70% or higher
MT2 Practical (EMC)	• Required only where CWB has not recognized the relevant Level 2 practical competence in the same method and sector. Level 2 instruction writing is excluded.	8 hours	70% or higher for each part

Ultrasonic Testing Exams

Ultrasonic Testing Level 1

Exam Elements	Exam Questions & Parts	Duration	Pass Grade
UT1 General Written	• 40 multiple choice questions on UT theory	1 hour 20 mins	70% or higher
UT1 Specific (EMC) Written	• 40 multiple choice questions ○ 15 on Flaws & Their Names ○ 25 on Applications & Techniques	2 hours	70% or higher
UT1 Practical	• Performance & Calibration Checks ○ 8 calibrations ○ 1 beam spread check • Inspect 2 specimens ○ 1 weld ○ 1 formed product	8 hours	70% or higher for each part

Ultrasonic Testing Level 2

Exam Elements	Exam Questions & Parts	Duration	Pass Grade
UT2 General Written	• 40 multiple choice questions on UT theory	1 hour 20 mins	70% or higher
UT2 Specific (EMC) Written	• 70 multiple choice questions ○ 30 Flaws & Their Names ○ 30 Applications & Techniques ○ 10 Codes	3.5 hours	70% or higher
UT2 Practical	• Performance & Calibration Checks per L1 practical – only required if not completed	4 hours	70% or higher for each part
	• Inspect 4 specimens ○ 2 weld ○ 1 formed product – contact ○ 1 formed product – immersion • Written Instruction for one of the inspected specimen	16 hours	

UT Phased Array Level 2 Technique

Exam Elements	Exam Questions & Parts	Duration	Pass Grade
UT-PA2 Specific (EMC) Written	• 30 multiple choice questions	1.5 hours	70% or higher
UT-PA2 Practical	• Inspect 3 specimens ○ 2 weld ○ 1 corrosion plate	12 hours	70% or higher for each part
	• Written Instruction for one of the inspected specimen	2 hours	

Ultrasonic Testing Level 3

Exam Elements	Exam Questions & Parts	Duration	Pass Grade

UT3 Basic Written (Part A, B and C)	140 multiple choice questions
	• Part A
	  ○ 30 general M&P questions
	  ○ 40 M&P and discontinuities specific to products forms
	• Part B
	  ○ 10 questions on CAN/CGSB-48.9712-2022
	• Part C
	  ○ 60 questions on other NDT methods
		4 hours	70% or higher in each of A, B and C

UT3 General Written - Part D	30 multiple choice questions on UT theory	1 hour	70% or higher
UT3 Specific (EMC) Written - Part E	40 multiple choice questions • 30 on UT applications • 10 on codes	2 hours	70% or higher
UT3 Procedure Writing Or Procedure Review	• NDT Procedure writing required for first L3 certification • Review of NDT procedure as option for adding L3 certifications	4 hours Or 1.5 hours	70% or higher
UT2 Practical (EMC)	• Required only where CWB has not recognized the relevant Level 2 practical competence in the same method and sector. Level 2 instruction writing is excluded.	16 or 20 hours if no UT1	70% or higher for each part

Eddy Current Testing Exams

Eddy Current Testing Level 1

Exam Elements	Exam Questions & Parts	Duration	Pass Grade
ET1 General Written	• 40 multiple choice questions on ET theory	1 hour 20 mins	70% or higher
ET1 Specific (EMC) Written	• 40 multiple choice questions ○ 15 on flaws ○ 25 on applications	2 hours	70% or higher
ET1 Practical	• Performance and calibration checks: two resistivity measurements; one absolute plate-probe calibration; one absolute and one differential tube calibration. Specimen work: two coating-thickness measurements (a third only when assigned), crack-depth sizing and one tube examination.	8 hours	70% or higher for each part

Eddy Current Testing Level 2

Exam Elements	Exam Questions & Parts	Duration	Pass Grade
ET2 General Written	• 40 multiple choice questions on ET theory	1 hour 20 mins	70% or higher
ET2 Specific (EMC) Written	• 60 multiple choice questions ○ 25 M&P and flaws ○ 10 Codes ○ 25 applications	3 hours	70% or higher
ET2 Practical	• Performance & Calibration Checks per L1 practical – only required if not completed	4 hours	70% or higher for each part
	• Inspect 4 specimens ○ 2 tubes ○ 1 fastened assembly ○ 1 wheel section • Written Instruction for one of the inspected specimen	16 hours or 20 hours if direct Level 2	

Eddy Current Testing Level 3

Exam Elements	Exam Questions & Parts	Duration	Pass Grade

ET3 Basic Written (Part A, B and C)	140 multiple choice questions
	• Part A
	  ○ 30 general M&P questions
	  ○ 40 M&P and discontinuities specific to product forms
	• Part B
	  ○ 10 questions on CAN/CGSB-48.9712-2022
	• Part C
	  ○ 60 questions on other NDT methods
		4 hours	70% or higher in each of A, B and C

ET3 General Written - Part D	30 multiple choice questions on ET theory	1 hour	70% or higher
ET3 Specific (EMC) Written - Part E	40 multiple choice questions • 30 on ET applications • 10 on codes	2 hours	70% or higher
ET3 Procedure Writing Or Procedure Review	• NDT Procedure writing required for first L3 certification • Review of NDT procedure as option for adding L3 certifications	4 hours Or 1.5 hours	70% or higher
ET2 Practical (EMC)	• Required only when CWB has not accepted the relevant Level 2 practical competence in the method and sector. Level 2 instruction writing is excluded.	16 or 20 hours if direct no ET1	70% or higher for each part

RENEWAL EXAMINATIONS

For the Level 2 renewal practical-examination route, the candidate must also produce a written NDT instruction suitable for Level 1 personnel. The specimen and instruction are graded separately and must each achieve at least 70%. The instruction is included in the stated renewal session duration. This requirement does not apply to an accepted structured-credit renewal or to a Level 1 practical examination. See CAN/CGSB-48.9712-2022, 10.1(d) and 11.2.2.

Renewal examinations apply when the candidate selects this route or does not satisfy the applicable structured-credit requirements; see Section 3.3.1.

Method	Exam	Exam Questions & Parts	Duration	Pass Grade
PT Level 2	PT2 Renewal Practical (EMC)	• 1 Performance Verification • Inspect 1 specimen Level 2 only: written instruction, included in the session.	4 hours	70% or higher for each part
MT Level 2	MT2 Renewal Practical (EMC)	• 1 Performance Verification • Inspect 1 specimen Level 2 only: written instruction, included in the session.	4 hours	70% or higher for each part
UT Level 1	UT1 Renewal Practical (EMC)	• 1 Performance Verification • Inspect 1 specimen	4 hours	70% or higher for each part
UT Level 2	UT2 Renewal Practical (EMC)	• 1 Performance Verification • Inspect 1 specimen Level 2 only: written instruction, included in the session.	4 hours	70% or higher for each part
ET Level 1	ET1 Renewal Practical	• 1 Performance Verification • Inspect 1 specimen	4 hours	70% or higher for each part
ET Level 2	ET2 Renewal Practical	• 1 Performance Verification • Inspect 1 specimen Level 2 only: written instruction, included in the session.	4 hours	70% or higher for each part

RECERTIFICATION EXAMINATIONS

Method	Exam	Exam Questions & Parts	Duration	Pass Grade
PT Level 2	PT2 Recertification Practical (EMC)	• 1 Performance Verification • Inspect 2 specimens	4 hours	70% or higher for each part
PT Level 2	PT2 Instruction	• Written Instruction for one of the specimens		70% or higher
PT Level 3	PT3 Recertification Written	• Separate Level 3 written recertification examination when structured credits are not selected or accepted. 50 multiple-choice questions: 10 on the certification scheme, 30 on PT applications and 10 on codes.	2 h 30 min	70% or higher
MT Level 2	MT2 Recertification Practical (EMC)	• 1 Performance Verification • Inspect 2 specimens	4 hours	70% or higher for each part
MT Level 2	MT2 Instruction	• Written Instruction for one of the specimens		70% or higher
MT Level 3	MT3 Recertification Written	• Separate Level 3 written recertification examination when structured credits are not selected or accepted. 50 multiple-choice questions: 10 on the certification scheme, 30 on MT applications and 10 on codes.	2 h 30 min	70% or higher
UT Level 1	UT1 Recertification Practical (EMC)	• 2 Performance Verification • Inspect 2 specimens	4 hours	70% or higher for each part
UT Level 2	UT2 Recertification Practical (EMC)	• 2 Performance Verification • Inspect 2 specimens	8 hours	70% or higher for each part
UT Level 2	UT2 Instruction	• Written Instruction for one of the specimens		70% or higher
ET Level 1	ET1 Recertification Practical	• 2 Performance Verification • Inspect 2 specimens	4 hours	70% or higher for each part
ET Level 2	ET2 Recertification Practical	• 2 Performance Verification • Inspect 2 specimens	8 hours	70% or higher for each part
ET Level 2	ET2 Instruction	• Written Instruction for one of the specimens		70% or higher

Method	Exam	Exam Questions & Parts	Duration	Pass Grade
ET Level 3	ET3 Recertification Written	• Separate Level 3 written recertification examination when structured credits are not selected or accepted. 50 multiple-choice questions: 10 on the certification scheme, 30 on ET applications and 10 on codes.	2 h 30 min	70% or higher
UT Level 3	UT3 Recertification Written	• Separate Level 3 written recertification examination when structured credits are not selected or accepted. 50 multiple-choice questions: 10 on the certification scheme, 30 on UT applications and 10 on codes.	2 h 30 min	70% or higher

ANNEX B: PRACTICAL EXAMINATION ASSESSMENT

The following assessment summaries are based on Annex D of CAN/CGSB-48.9712-2022. Each specimen and the Level 2 written instruction must separately achieve at least 70%. The listed subitems are assessment weights, not separate 70% pass thresholds. A higher average does not compensate for a failed specimen or instruction. Approved method-specific instructions and essential requirements remain applicable.

B.1 PRACTICAL SPECIMENS — LEVELS 1 AND 2

Assessment area	Level 1 (%)	Level 2 (%)
Equipment/media knowledge and control	10	5
Validity of checks and media	10	5
Subtotal — equipment and media	20	10
Specimen preparation and visual examination	5	2
Technique selection and operating conditions	—	10
Equipment setup and examination	25	12
Post-examination actions	5	2
Subtotal — method application	35	26
Detection of mandatory reportable indications	20	18
Characterization and location	15	18
Evaluation against applicable criteria	—	18
Examination report	10	10
Subtotal — detection, evaluation and reporting	45	64
Total	100	100

Basis: CAN/CGSB-48.9712-2022, Table D.1.

B.2 Written instruction — Level 2

Assessment area	Weight (%)
Scope	5
NDT personnel	5
Equipment	5
Product	10
Test conditions	10
Detailed examination instructions	40
Recording, classification and evaluation of results	20
Reporting	5
Total	100

Basis: CAN/CGSB-48.9712-2022, Table D.2.

For the Level 2 renewal practical-examination route, the candidate must also produce a written NDT instruction suitable for Level 1 personnel. The specimen and instruction are graded separately and must each achieve at least 70%. The instruction is included in the stated renewal session duration. This requirement does not apply to an accepted structured-credit renewal or to a Level 1 practical examination. See CAN/CGSB-48.9712-2022, 10.1(d) and 11.2.2.

B.3 Procedure Writing Examination — Level 3, Part F

Assessment area	Weight (%)
Scope, document control and references	8
NDT personnel	2
Main and ancillary equipment/materials	20
Test piece, preparation, area and discontinuities sought	5
Technique, settings, execution and characterization	40
Acceptance criteria	7
Post-test actions	3
Test report	5
Overall presentation	10
Total	100

Basis: CAN/CGSB-48.9712-2022, Table D.3.