Examination Guide for Recertification

Radiographic Testing
Ultrasonic Testing
Magnetic Testing
Penetrant Testing
Eddy Current Testing

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Overview of NRCan National Non-destructive Testing Certification Body Services

The Natural Resources Canada (NRCan) National Non-Destructive Testing Certification Body (NDTCB) manages Canada’s nation-wide program for the certification of individuals performing non-destructive testing (NDT). The NRCan NDTCB certifies/recertifies individuals according to CAN/CGSB-48.9712-2014 / (ISO 9712:2012, IDT) standard.

In performing this function, the NRCan NDTCB carries out the following tasks:

a) Examines the information provided by the applicant to ensure that the applicant has the basic education, recommended NDT training and experience required by the standard;

b) Prepares, administers and evaluates both written and practical examinations;

c) Maintains a network of examination centres across Canada for both written and practical examinations;

d) Renews and recertifies certificates as specified by the standard.

In recertifying a candidate, the NRCan NDTCB only attests that the candidate has demonstrated sufficient knowledge and skill to meet the requirements of the CAN/CGSB 48.9712 standard. The NRCan NDTCB cannot attest to the certificate holder’s competence in any specific situation at the time of original certification, or at any time thereafter.

In undertaking the administration of the program, the NRCan NDTCB attempts to provide the unbiased Canada-wide services required to implement a national program. A group of Scheme, Technical and Advisory Committees composed of stakeholders and individuals knowledgeable about NDT in Canada advises the NRCan NDTCB on the operation of this program.

IMPORTANT NOTICE

The candidate is responsible to ensure the examination centre has proof of their examination registration approval and/or examination admittance and registration form issued by the NRCan NDTCB prior to the scheduled written or practical examination/re-examination (unless the exam centre has been delegated the authority to pre-approve candidates for recertification examination registration). Failure to do this may delay the start time of the recertification exam and increase cost to the candidate.

Examination(s) required for recertification:

- **Level 1**: Recertification by practical examination (two practical examination specimens).
- **Level 2**: Recertification by practical examination (two practical examination specimens) and written instruction (except for RT level 2 which requires film interpretation).
- **Level 3**: Recertification by level 2 practical examination (two practical examination specimens and, for RT only, film interpretation) and a choice between either a written (multiple choice) examination or the option of a Structured Credit System.

A candidate who fails to achieve a grade of at least 70% on each individual part and specimen of the recertification examination may retake the recertification examination according to the following criteria and schedule:

- Candidates will be allowed a maximum of three (3) recertification examination attempts for each recertification application as per CAN/CGSB-48.9712-2014 / (ISO 9712:2012, IDT).
- According to paragraph 11, section 2, subsection 2: The time period to retake level 1 and 2 recertification examinations shall not exceed six (6) months.
- According to paragraph 11, section 3, subsection 3: The time period to retake level 3 recertification examinations shall not exceed twelve (12) months unless otherwise extended.
- The NDT Certification Body reserves the right of choice for written or practical components.

All examination times are shown in increments of ½ day or 1 day; ½ day shall be considered a maximum of 4 hours and 1 day shall be considered a maximum 8 hours. Requests for accommodation (such as additional examination time) can only be granted with authorization from the NRCan NDTCB, following its “8.5-009 - NRCan NDTCB Procedure for Consideration of Candidate Requests for Accommodation”. The authorized accommodations shall be noted in the candidate’s examination registration approval and/or examination admittance and registration form. It is the candidate’s responsibility to notify the examination centre of these accommodations at least 10 working days in advance of the examination.

**NOTE:** Additional information/instruction may be provided to the candidate at the start of the recertification examination. The NDTCB may have implementation rules and policies that can supersede the information provided within this guide.

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Note: All examination times are shown in increments of ½ day or 1 day; ½ day shall be considered a maximum of 4 hours and 1 day shall be considered a maximum 8 hours. Requests for accommodation (such as additional examination time) can only be granted with authorization from the NRCan NDTCB, following its “8.5-009 - NRCan NDTCB Procedure for Consideration of Candidate Requests for Accommodation”. The authorized accommodations shall be noted in the candidate’s examination registration approval and/or examination admittance and registration form. It is the candidate’s responsibility to notify the examination centre of these accommodations at least 10 working days in advance of the examination.
Radiographic Testing

Level 1 EMC Practical Recertification Examination

General Information

Prior to the attempting the practical examination, the candidate should be aware of the following:

1. The duration of the Radiographic Testing Level 1 (RT1) practical recertification examination is 4 hours (½ day).

2. The RT1 practical recertification examination is a closed book examination. The following items are strictly forbidden and must be left outside the laboratory/examination room:
   - Books, notes and papers belonging to the candidate;
   - Electronic devices (cell phones, tablets, cameras, etc.);
   - Other items that could provide answers/information for examination questions/content or are capable of recording examination material.

   Candidates may use a scientific calculator provided it does not contain information or established programs that provide solutions to examination problems. Candidates are forbidden from consulting the abovementioned materials and devices when leaving the examination room for a break/meal prior to completing the examination.

3. The candidate is not allowed to bring his/her own equipment or film and is not allowed to take the examination documents, equipment or specimens out of the laboratory/examination room. All reporting must be completed within the laboratory/examination room.

4. The candidate will be supplied with the necessary examination equipment and accessories as per NRCan NDTCB examination centre requirements, as well as all reporting sheets, any additional examination documents, and additional paper supplies (provided by the examination centre) as needed to complete the examination.

5. The candidate will be shown the operation and placement of equipment and accessories required to complete the examination, as well as the accessible surfaces of the exam specimens and reference samples. Candidates are advised to review the candidate instructions included with the examination documents.

6. If, for any reason, the candidate must deviate from the supplied technique, the circumstances for this deviation must be stated and supported by the exam invigilator.

7. Surface preparations are not permitted on the examination specimens. The candidate is requested to not mark the specimens, equipment and reference samples.

8. The candidate may or may not be required to develop his/her own film. This decision will be made by the exam invigilator.

9. The candidate may ask questions concerning the examination. An invigilator may refuse to answer any questions he or she considers to be part of the examination requirements.

10. The candidate has the opportunity to provide feedback concerning the practical examination. After completing the examination, the candidate will complete the comment sheet and place it into the return envelope with the examination paper(s) prior to sealing the envelope. The comment sheet will then be sent to the NRCan NDTCB along with the examination in the sealed return envelope.

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Unauthorized changes or edits to this document may invalidate its usage and applicability.
NOTE: If the candidate is operating unsafely or improperly while attempting their practical examination, it is the prerogative of the invigilator to discuss this situation with the candidate and, if necessary, terminate the practical examination. All such actions, as well as any special assistance given to the candidate, must be reported to the examiner on the invigilator’s assessment sheet.

RT1 EMC Practical Recertification Examination Program

RT1 EMC Practical Recertification Examination Candidates shall complete the following:

1. General Safety
   - Follow all the safety requirements of radiography and properly utilize the assigned examination centre equipment.

   The candidate will be observed on the general safety requirements of radiography, namely: the use of a calibrated survey meter; wearing of an optically stimulated luminescent dosimeter (OSL); wearing of a direct reading dosimeter (DRD); as well as maintaining safe exposure perimeter barriers when not working within the confines of a radiographic exposure room. These specific safety items will be a graded element and noncompliance could result in failure to be recertified as a Level 1 radiographer.

2. Application of radiographic techniques on two (2) specimens: (one (1) heavy/light metal and one (1) weldment):
   - Perform an inspection as per the specific technique instructions provided.

   Note: The specimens/techniques are assigned by the invigilator as per the directions indicated on your examination admittance and registration form.

   Coverage of the exam specimens:
   The limits of coverage will be indicated in the technique provided. The candidate will produce results as indicated by the technique. Upon completion of the two techniques all film, both used and unused, will be handed in to the examiner along with the sample techniques. NO paper or film is allowed to leave the exam centre.

Suggestions for Success

1. Ensure that you carefully read all examination instructions prior to proceeding with the examination requirements.

2. Do not spend too much time on one part of the exam at the expense of the other parts. You are recommended to take:
   - 1 hour to read the general information, familiarize yourself with the equipment and accessories, and meet the general safety requirements and regulations.
   - 3 hours to inspect the two (2) specimens

3. Do not hesitate to ask the invigilator questions. The invigilator will not answer a question if he/she considers it to be an exam requirement.
Radiographic Testing

Level 2 All Sectors Practical Recertification Examination

General Information

Prior to attempting the practical examination, the candidate should be aware of the following:

1. The duration of the Radiographic Testing Level 2 (RT2) practical recertification examination is 8 hours (1 day).

2. The RT2 practical recertification examination is a closed book examination. The following items are strictly forbidden and must be left outside the laboratory/examination room:
   - Books, notes and papers belonging to the candidate;
   - Electronic devices (cell phones, tablets, cameras, etc.);
   - Other items that could provide answers/information for examination questions/content or are capable of recording examination material.

Candidates may use a scientific calculator provided it does not contain information or established programs that provide solutions to examination problems. Candidates are forbidden from consulting the abovementioned materials and devices when leaving the examination room for a break/meal prior to completing the examination.

3. The candidate is not allowed to bring his/her own equipment or film and is not allowed to take the examination documents, equipment or specimens out of the laboratory/examination room. All reporting must be completed within the laboratory/examination room.

4. The candidate will be supplied with the necessary examination equipment and accessories as per NRCan NDTCB examination centre requirements, as well as all reporting sheets, any additional examination documents, and additional paper supplies (provided by the examination centre) as needed to complete the examination.

5. The candidate will be shown the operation and placement of equipment and accessories required to complete the examination, as well as the accessible surfaces of the exam specimens and reference samples. Candidates are advised to review the candidate instructions included with the examination documents.

6. If, for any reason, the candidate must deviate from the supplied technique, the circumstances for this deviation must be stated and supported by the exam invigilator.

7. Surface preparations are not permitted on the examination specimens. The candidate is requested to not mark the specimens, equipment and reference samples. There is no internal access for film placement in any of the exam specimens.

8. The candidate may or may not be required to develop his/her own film. This decision will be made by the exam invigilator.

9. The candidate may ask questions concerning the examination. An invigilator may refuse to answer any questions he or she considers to be part of the examination requirements.

10. The candidate has the opportunity to provide feedback concerning the practical examination. After completing the examination, the candidate will complete the comment sheet and place it into the return envelope with the examination paper(s) prior to sealing the envelope. The comment sheet will then be sent to the NRCan NDTCB along with the examination in the sealed return envelope.
NOTE: If the candidate is operating unsafely or improperly while attempting their practical examination, it is the prerogative of the invigilator to discuss this situation with the candidate and, if necessary, terminate the practical examination. All such actions, as well as any special assistance given to the candidate, must be reported to the examiner on the invigilator’s assessment sheet.

RT Level 2 EMC Practical Recertification Examination Program

RT2 EMC Practical Recertification Examination Candidates shall complete the following:

1. General Safety
   - Follow all the safety requirements of radiography and properly utilize the assigned examination centre equipment.

   The candidate will be observed on the general safety requirements of radiography, namely: the use of a calibrated survey meter; wearing of an optically stimulated luminescent dosimeter (OSL); wearing of a direct reading dosimeter (DRD); as well as maintaining safe exposure perimeter barriers when not working within the confines of a radiographic exposure room. These specific safety items will be a graded element and noncompliance could result in failure to be recertified as a Level 2 radiographer.

2. Radiographic techniques on two (2) specimens:
   - Perform an inspection as per the specific technique instructions provided in the candidate instructions; complete all reporting sheets provided with the specimen. You are required to produce a technique for each specimen.

   Note: The specimens/techniques are assigned by the invigilator as per the directions indicated on your examination admittance and registration form.

   The candidate will be provided with:
   - two (2) exam specimens;
   - the Standard Method For Radiographic Examination of Weldments, Castings and Forgings;
   - a current isotope decay curve;
   - film characteristic curves;
   - logarithmic and anti-logarithmic tables;
   - source size and effective x-ray focal spot size;
   - sketches of the exam specimens;
   - exposure curves; and
   - sufficient radiographic film of required speeds to carry out the techniques

   Note: The diagonal measurement of the source/effective focal spot is to be used for all unsharpness mathematical calculations. The candidate should be prepared to calculate this diagonal measurement.

   A standard will be supplied which will identify the limitations of specific quality factors: eg. sensitivity; unsharpness; density limitations; and penetrameter selection.

   The candidate will be given adequate instruction in the operation and placement of equipment and accessories required to produce the required results safely. Although the exam centre supplies each candidate with exposure curves, it should not be assumed that the exposure curves are accurate for all exam specimens as alloying materials vary greatly from one metal to another. Following an exam test shot, the candidate is expected to have the necessary skill to quickly identify the correct exposure.
There are many different ways to radiograph an exam specimen. Grading of a technique will be according to the guidelines of coverage, density, sensitivity attained and clarity of the technique so that a Level 1 personnel would be able to follow the instructions easily.

3. Film Interpretation

- The candidate will be required to interpret twelve (12) identified defect indications on the radiographs supplied.

The candidate will be provided with:

- white cotton gloves for handling these films;
- a high intensity film viewer;
- twelve (12) radiographs; and
- sufficient radiograph reporting sheets

**Suggestions for Success**

1. Ensure that you carefully read all examination instructions prior to proceeding with the examination requirements.

2. Do not spend too much time on one part of the exam at the expense of the other parts. You are recommended to take:
   - 30 minutes to read the general information, set up and familiarize yourself with the equipment and accessories and meet the general safety requirements and regulations.
   - 6 hours to inspect and develop techniques for the two (2) specimens provided.
   - 1.5 hours to complete the film interpretation.

3. Fill in all required information clearly and completely on the technique/reporting sheets provided. **Do not** use additional blank papers to write descriptions of techniques. There is sufficient space on the documents provided. If you require additional views to produce a more complete or comprehensive technique, you may draw the view you think is required; however this may make the technique unclear and is not recommended. Scribbled work is subject to rejection.

4. Do not hesitate to ask the invigilator questions. The invigilator will not answer a question if he/she considers it to be an exam requirement.
RT Level 2 Aerospace Practical Recertification Examination Program

RT2 Aerospace Practical Recertification Examination Candidates shall complete the following:

1. General Safety
   - Follow all the safety requirements of radiography and properly utilize the assigned examination centre equipment.

   The candidate will be observed on the general safety requirements of radiography, namely: the use of a calibrated survey meter; wearing of an optically stimulated luminescent dosimeter (OSL); wearing of a direct reading dosimeter (DRD); as well as maintaining safe exposure perimeter barriers when not working within the confines of a radiographic exposure room. **These specific safety items will be a graded element and noncompliance could result in failure to be recertified as a Level 2 radiographer.**

2. Radiographic techniques on two (2) specimens:
   - Perform an inspection as per the specific technique instructions provided in the candidate instructions; complete the reporting sheets provided with the specimen. You are required to produce a technique for each specimen.

   **Note:** The specimens/techniques are assigned by the invigilator as per the directions indicated on your examination admittance and registration form.

   The candidate will be provided with:
   - two (2) exam specimens;
   - film characteristic curves;
   - logarithmic and anti-logarithmic tables;
   - effective x-ray focal spot size;
   - sketches of the exam specimens;
   - exposure curves; and
   - sufficient radiographic film of required speeds to carry out the techniques

   **Note:** The diagonal measurement of the source/effective focal spot is to be used for all unsharpness mathematical calculations. The candidate should be prepared to calculate this diagonal measurement.

   A standard will be supplied which will identify the limitations of specific quality factors: eg. sensitivity; unsharpness; density limitations; and penetrameter selection.

   The candidate will be given adequate instruction in the operation and placement of equipment and accessories required to produce the required results safely. Although the exam centre supplies each candidate with exposure curves, it should not be assumed that the exposure curves are accurate for all exam specimens as alloying materials vary greatly from one metal to another. Following a test shot, the candidate is expected to have the necessary skill to quickly zero-in on the correct exposure.

   There are many different ways to radiograph an exam specimen. Grading of a technique will be according to the guidelines of coverage, density, sensitivity attained and clarity of the technique so that a Level 1 personnel would be able to follow the instructions easily.
3. Film Interpretation
   • The candidate will be required to interpret twelve (12) identified defect indications on the radiographs supplied.

   The candidate will be provided with:
   • white cotton gloves for handling these films;
   • a high intensity film viewer;
   • twelve (12) radiographs ; and
   • sufficient radiograph reporting sheets

**Suggestions for Success**

1. Ensure that you carefully read all examination instructions prior to proceeding with the examination requirements.

2. Do not spend too much time on one part of the exam at the expense of the other parts. You are recommended to take:
   • 30 minutes to read the general information, set up and familiarize yourself with the equipment and accessories and meet the general safety requirements and regulations.
   • 6 hours to inspect and develop techniques for the two (2) specimens provided.
   • 1.5 hours to complete the film interpretation.

3. Fill in all required information clearly and completely on the technique/reporting sheets provided. **Do not** use additional blank papers to write descriptions of techniques. There is sufficient space on the documents provided. If you require additional views to produce a more complete or comprehensive technique, you may draw the view you think is required; however this may make the technique unclear and is not recommended. Scribbled work is subject to rejection.

4. Do not hesitate to ask the invigilator questions. The invigilator will not answer a question if he/she considers it to be an exam requirement.
Ultrasonic Testing

Level 1 EMC Practical Recertification Examination

General Information

Prior to the attempting the practical examination, the candidate should be aware of the following:

1. The duration of the Ultrasonic Testing Level 1 (UT1) practical recertification examination is 4 hours (½ day).

2. The UT1 practical recertification examination is a closed book examination. The following items are strictly forbidden and must be left outside the laboratory/examination room:
   - Books, notes and papers belonging to the candidate;
   - Electronic devices (cell phones, tablets, cameras, etc.);
   - Other items that could provide answers/information for examination questions/content or are capable of recording examination material.

   Candidates may use a scientific calculator provided it does not contain information or established programs that provide solutions to examination problems. Candidates are forbidden from consulting the abovementioned materials and devices when leaving the examination room for a break/meal prior to completing the examination.

3. The candidate is not allowed to take the examination documents, equipment or specimens out of the laboratory/examination room. All reporting must be completed within the laboratory/examination room.

4. The candidate will be supplied with the necessary examination equipment and accessories as per NRCan NDTCB examination centre requirements, as well as all reporting sheets, any additional examination documents, and additional paper supplies (provided by the examination centre) as needed to complete the examination.

5. The candidate will be shown the operation and placement of equipment and accessories required to complete the examination, as well as the accessible surfaces of the exam specimens and reference samples. Candidates are advised to review the candidate instructions included with the examination documents.

6. Surface preparations are not permitted on the examination specimens. The candidate is requested to not mark the specimens, equipment and reference samples.

7. The candidate may ask questions concerning the examination. An invigilator may refuse to answer any questions he or she considers to be part of the examination requirements.

8. The candidate has the opportunity to provide feedback concerning the practical examination. After completing the examination, the candidate will complete the comment sheet and place it into the return envelope with the examination paper(s) prior to sealing the envelope. The comment sheet will then be sent to the NRCan NDTCB along with the examination in the sealed return envelope.

NOTE: If the candidate is operating unsafely or improperly while attempting their practical examination, it is the prerogative of the invigilator to discuss this situation with the candidate and, if necessary, terminate the practical examination. All such actions, as well as any special assistance given to the candidate, must be reported to the examiner on the invigilator’s assessment sheet.

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UT1 EMC Practical Recertification Examination Program

UT1 EMC Practical Recertification Examination Candidates shall complete the following:

1. Complete the two (2) calibration exercises as per the instructions on the reporting sheets.
   **Note:** Candidates must include all applicable units of measure when recording the results of the calibration tests above.

2. Inspect two (2) specimens:
   - Perform an inspection on each specimen as per the specimen inspection instructions provided; find all reportable indications per designated section and complete the reporting sheets provided with the specimen.
     **Note:** The specimens/techniques are assigned by the invigilator as per the directions indicated on your examination admittance and registration form.
   - Complete the reporting sheets/illustrations provided with the specimen by drawing the appearance **all** reportable indications on the illustrations provided as accurately as possible. Show the relative size, shape, length and location of the indications. When necessary, draw a sketch of a missing view.

   **Suggestions for Success**

1. Ensure that you carefully read all examination instructions prior to proceeding with the examination requirements.
2. Do not spend too much time on one part of the exam at the expense of the other parts. You are recommended to take:
   - 30 minutes to read instructions and familiarize yourself with the equipment.
   - 30 minutes to complete the calibration exercises.
   - 3 hours to inspect the two (2) specimens and complete the reporting sheets provided.
3. Fill in the reporting sheets clearly, completely and concisely, ensuring that you show the correct size, shape, length and location of flaws and include all applicable units of measurement.
4. Do not hesitate to ask the invigilator questions. The invigilator will not answer a question if he/she considers it to be an exam requirement.
Ultrasonic Testing

Level 2 EMC Practical Recertification Examination

General Information

Prior to attempting the practical examination, the candidate should be aware of the following:

1. The duration of the Ultrasonics Level 2 (UT2) practical recertification examination is 8 hours (1 day).

2. The UT2 practical recertification examination is a closed book examination. The following items are strictly forbidden and must be left outside the laboratory/examination room:
   - Books, notes and papers belonging to the candidate;
   - Electronic devices (cell phones, tablets, cameras, etc.);
   - Other items that could provide answers/information for examination questions/content or are capable of recording examination material.

   Candidates may use a scientific calculator provided it does not contain information or established programs that provide solutions to examination problems. Candidates are forbidden from consulting the abovementioned materials and devices when leaving the examination room for a break/meal prior to completing the examination.

3. The candidate is not allowed to take the examination documents, equipment or specimens out of the laboratory/examination room. All reporting must be completed within the laboratory/examination room.

4. The candidate will be supplied with the necessary examination equipment and accessories as per NRCan NDTCB examination centre requirements, as well as all reporting sheets, any additional examination documents, and additional paper supplies (provided by the examination centre) as needed to complete the examination.

5. The candidate will be shown the operation and placement of equipment and accessories required to complete the examination, as well as the accessible surfaces of the exam specimens and reference samples. Candidates are advised to review the candidate instructions included with the examination documents.

6. Surface preparations are not permitted on the examination specimens. The candidate is requested to not mark the specimens, equipment and reference samples.

7. The candidate may ask questions concerning the examination. An invigilator may refuse to answer any questions he or she considers to be part of the examination requirements.

8. The candidate has the opportunity to provide feedback concerning the practical examination. After completing the examination, the candidate will complete the comment sheet and place it into the return envelope with the examination paper(s) prior to sealing the envelope. The comment sheet will then be sent to the NRCan NDTCB along with the examination in the sealed return envelope.

NOTE: If the candidate is operating unsafely or improperly while attempting their practical examination, it is the prerogative of the invigilator to discuss this situation with the candidate and, if necessary, terminate the practical examination. All such actions, as well as any special assistance given to the candidate, must be reported to the examiner on the invigilator’s assessment sheet.
UT2 EMC Practical Recertification Examination Program

UT2 EMC Practical Recertification Examination Candidates shall complete the following:

1. Complete the two (2) calibration exercises as per the instructions on the reporting sheets.
   **Note:** Candidates must include all applicable units of measure when recording the results of the calibration tests above.

2. Inspect two (2) specimens:
   - Perform an inspection on each specimen as per the specimen inspection instructions provided; find all reportable indications per designated section and complete the reporting sheets provided with the specimen.
     **Note:** The specimens/techniques are assigned by the invigilator as per the directions indicated on your examination admittance and registration form.
   - Complete the reporting sheets/illustrations provided with the specimen by drawing the appearance of all reportable indications on the illustrations provided as accurately as possible and make a preliminary interpretation of your findings. Show the relative size, shape, length and location of the indications. When necessary, draw a sketch of a missing view.
   - Reported indication(s) must be accepted or rejected to the procedure provided with the exam specimen.

3. Complete a written instruction for one of the specimens (required for Level 2 recertification only). The instruction must be written in a way that will enable another ultrasonic testing inspector to easily follow your steps and duplicate your results. It should include:
   a) foreword (scope, reference documents);
   b) personnel;
   c) apparatus to be used, including settings;
   d) product (description or drawing, including area of interest and purpose of the test);
   e) test conditions, including preparation for testing and equipment calibration;
   f) detailed instructions for application of the test;
   g) recording and classifying the results of test;
   h) reporting the results.
   **Note:** You may use the general information accompanying the exam specimen for writing the instruction; however, you must keep in mind you are required to write a specific instruction to inspect a specific specimen. You may reference other sections in your reporting sheets as applicable.

Suggestions for Success

1. Ensure that you carefully read all examination instructions prior to proceeding with the examination requirements.
2. Do not spend too much time on one part of the exam at the expense of the other parts. You are recommended to take:
   - 30 minutes to read instructions and familiarize yourself with the equipment.
   - 30 minutes to complete the calibrations.
   - 5 hours to inspect two the (2) specimens and complete the reporting sheets provided.
   - 2 hours to write an NDT instruction for one of the exam specimens.
3. Fill in the reporting sheets clearly, completely and concisely, ensuring that you show the correct
size, shape, length and location of flaws and include all applicable units of measurement.

4. Do not hesitate to ask the invigilator questions. The invigilator will not answer a question if he/she considers it to be an exam requirement.
Policy and Procedure for Candidates Using Their Own Ultrasonics Equipment for Recertification Examinations

Candidates that prefer to use their own ultrasonics equipment while attempting a UT practical recertification examination require approval for special accommodation from the Natural Resources Canada (NRCan) National Non-Destructive Testing Certification Body (NDTCB) prior to booking their examination at an Authorized Examination Centre (AEC).

In order to use his/her own UT equipment for their recertification examination the candidate must (in this order):

1) Submit a written request to the NRCan NDTCB (requests can be submitted electronically), citing the manufacturer make and model number of the equipment, and attaching a copy of the equipment's "operator's manual";
2) Receive official approval from the NRCan NDTCB prior to booking the examination;
3) Book the examination date/time with an AEC, providing the AEC with a copy of the official approval document(s) to use his/her own equipment, as well as the relevant pages from the "operator's manual" for the proper clearing of equipment memory. Candidates must give the AEC at least 10 business days notice of the special accommodation approval to use his/her own ultrasonics equipment, in order for the invigilator to have the necessary time to understand how to "clear" all data memories at the beginning and end of each day of the practical examination;
4) On the day of the examination, arrive prior to your examination with enough time for the invigilator to clear any data memory from the equipment. You must also allow the invigilator to clear any data memory from the equipment at the end of the examination.

Examination Invigilator Responsibilities

When a candidate has received approval from the NRCan NDTCB to use his/her own ultrasonics equipment for the UT recertification examination, the invigilator shall:
1) Clear the equipment of all data before and after the examination;
2) Document proof that the equipment has been cleared of all data before and after the examination;
3) Impose additional monitoring and recording of the examination as specified by the NRCan NDTCB.

Accommodations are authorized by the NRCan NDTCB on a case-by-case basis for each examination. The NRCan NDTCB reserves the right to reject a candidate’s request to use his/her own equipment if the Certification Body determines that the equipment’s memory cannot be adequately cleared or that the equipment may provide an unfair advantage to the candidate. If the candidate fails to meet the above deadline to notify the AEC of the accommodation approval, they will not be allowed to use their own equipment, or must schedule the exam for a later date.

Note: Candidates may be subject to any additional fees incurred at the examination centre to provide this accommodation. Additional monitoring and recording may be imposed by the AEC and the NDTCB to ensure the integrity of the examination process due to this accommodation.

If it is discovered that at any time during or after the examination the candidate deliberately mislead the invigilator on the procedure for clearing the memory or attempted to leave the testing facility with exam information in the equipment’s memory, or did not otherwise abide by the examination rules or perpetrates/is an accessory to fraudulent conduct, the candidate will be subject to disciplinary action in accordance with the NRCan NDTCB Procedure for Code of Conduct Violations.

Candidates using their own ultrasonics equipment for their recertification examination are expected to successfully complete all components of the recertification examination and meet the minimum reporting requirements of the recertification examination in order to receive a passing grade. The candidate assumes all responsibility for the working state of the equipment, and any direct or indirect issues (costs) borne by the candidate and the AEC. Should the equipment fail during the examination, the candidate assumes full liability and will not have grounds to appeal the examination process or the results.
Magnetic Testing

Level 2 EMC Practical Recertification Exam

General Information

Prior to the attempting the practical examination, the candidate should be aware of the following:

1. The duration of the Magnetic Testing Level 2 (MT2) practical recertification examination is 4 hours (½ day).

2. The MT2 practical recertification examination is a closed book examination. The following items are strictly forbidden and must be left outside the laboratory/examination room:
   - Books, notes and papers belonging to the candidate;
   - Electronic devices (cell phones, tablets, cameras, etc.);
   - Other items that could provide answers/information for examination questions/content or are capable of recording examination material.

Candidates may use a scientific calculator provided it does not contain information or established programs that provide solutions to examination problems. Candidates are forbidden from consulting the abovementioned materials and devices when leaving the examination room for a break/meal prior to completing the examination.

3. The candidate is not allowed to take the examination documents, equipment or specimens out of the laboratory/examination room. All reporting must be completed within the laboratory/examination room.

4. The candidate will be supplied with the necessary examination equipment and accessories as per NRCan NDTCB examination centre requirements, as well as all reporting sheets, any additional examination documents, and additional paper supplies (provided by the examination centre) as needed to complete the examination.

5. The candidate will be shown the operation and placement of equipment and accessories required to complete the examination, as well as the accessible surfaces of the exam specimens and reference samples. Candidates are advised to review the candidate instructions included with the examination documents.

6. Surface preparations are not permitted on the examination specimens. The candidate is requested to not mark the specimens, equipment and reference samples.

7. The candidate may ask questions concerning the examination. An invigilator may refuse to answer any questions he or she considers to be part of the examination requirements.

8. The candidate has the opportunity to provide feedback concerning the practical examination. After completing the examination, the candidate will complete the comment sheet and place it into the return envelope with the examination paper(s) prior to sealing the envelope. The comment sheet will then be sent to the NRCan NDTCB along with the examination in the sealed return envelope.

NOTE: If the candidate is operating unsafely or improperly while attempting their practical examination, it is the prerogative of the invigilator to discuss this situation with the candidate and, if necessary, terminate the practical examination. All such actions, as well as any special assistance given to the candidate, must be reported to the examiner on the invigilator’s assessment sheet.
MT2 EMC Practical Recertification Examination Program

MT2 EMC Practical Recertification Examination Candidates shall complete the following:

1. Perform one (1) calibration/performance test.
   - Measure and record the highest black or white light intensity. Ensure that the measured intensity meets the minimum required before proceeding with the examination. **Note:** Candidates must include all applicable units of measure when recording the results of the calibration/performance tests above.

2. Inspect two (2) specimens:
   - Perform an inspection on each specimen with a yoke using magnetic particle fluid and/or using the wet fluorescent method (wet bench); find all reportable indications and complete the reporting sheets provided with the specimen. **Note:** The yoke is only to be used for the yoke specimens. Invigilators have been instructed to terminate the examination if the yoke is used on any other parts. **Note:** The specimens/techniques are assigned by the invigilator as per the directions indicated on your examination admittance and registration form.
   - Complete the reporting sheets/illustrations provided with the specimen by drawing the appearance all indications on the illustrations provided as accurately as possible and make a preliminary interpretation of your findings. Show the relative size, shape, length and location of the indications. When necessary, draw a sketch of a missing view.
   - Evaluate (accept/reject) each of the specimens according to the Evaluation Criteria Procedure in the Candidate Instructions.
   - Demagnetize the exam specimens at the completion of the exam.

3. Complete a written instruction for one of the specimens (required for Level 2 recertification only). The instruction must be written in a way that will enable another magnetic testing inspector to easily follow your steps and duplicate your results. It should include:
   a) foreword (scope, reference documents);
   b) personnel;
   c) apparatus to be used, including settings;
   d) product (description or drawing, including area of interest and purpose of the test);
   e) test conditions, including preparation for testing and equipment calibration;
   f) detailed instructions for application of the test;
   g) recording and classifying the results of test;
   h) reporting the results.

**Note:** You may use the general information accompanying the exam specimen for writing the instruction; however, you must keep in mind you are required to write a specific instruction to inspect a specific specimen. You may reference other sections in your reporting sheets as applicable.

**Suggestions for Success**

1. Ensure that you carefully read all examination instructions prior to proceeding with the examination requirements.
2. Do not spend too much time on one section of the exam at the expense of the other sections. You are recommended to take:
   - 1 hour to read instructions and familiarize yourself with the requirements and the
equipment, and conduct the calibration/performance test.

- 2 hours to inspect the two (2) specimens and complete the reporting sheets provided.
- 1 hour to write an NDT instruction for one of the exam specimens.

3. Fill in the reporting sheets clearly, completely and concisely, ensuring that you show the correct size, shape, length and location of flaws and include all applicable units of measurement.

4. Do not hesitate to ask the invigilator questions. The invigilator will not answer a question if he/she considers it to be an exam requirement.
Penetrant Testing

Level 2 EMC Practical Recertification Examination

General Information

Prior to the attempting the practical examination, the candidate should be aware of the following:

1. The duration of the Penetrant Testing Level 2 (PT2) practical recertification examination is 4 hours (½ day).

2. The PT2 practical recertification examination is a closed book examination. The following items are strictly forbidden and must be left outside the laboratory/examination room:
   - Books, notes and papers belonging to the candidate;
   - Electronic devices (cell phones, tablets, cameras, etc.);
   - Other items that could provide answers/information for examination questions/content or are capable of recording examination material.

   Candidates may use a scientific calculator provided it does not contain information or established programs that provide solutions to examination problems. Candidates are forbidden from consulting the abovementioned materials and devices when leaving the examination room for a break/meal prior to completing the examination.

3. The candidate is not allowed to take the examination documents, equipment or specimens out of the laboratory/examination room. All reporting must be completed within the laboratory/examination room.

4. The candidate will be supplied with the necessary examination equipment and accessories as per NRCan NDTCB examination centre requirements, as well as all reporting sheets, any additional examination documents, and additional paper supplies (provided by the examination centre) as needed to complete the examination.

5. The candidate will be shown the operation and placement of equipment and accessories required to complete the examination, as well as the accessible surfaces of the exam specimens and reference samples. Candidates are advised to review the candidate instructions included with the examination documents.

6. Surface preparations are not permitted on the examination specimens. The candidate is requested to not mark the specimens, equipment and reference samples.

7. The candidate may ask questions concerning the examination. An invigilator may refuse to answer any questions he or she considers to be part of the examination requirements.

8. The candidate has the opportunity to provide feedback concerning the practical examination. After completing the examination, the candidate will complete the comment sheet and place it into the return envelope with the examination paper(s) prior to sealing the envelope. The comment sheet will then be sent to the NRCan NDTCB along with the examination in the sealed return envelope.

NOTE: If the candidate is operating unsafely or improperly while attempting their practical examination, it is the prerogative of the invigilator to discuss this situation with the candidate and, if necessary, terminate the practical examination. All such actions, as well as any special assistance given to the candidate, must be reported to the examiner on the invigilator’s assessment sheet.
PT2 EMC Practical Recertification Examination Program

PT2 EMC Practical Recertification Examination Candidates shall complete the following:

1. Perform one (1) calibration/performance test.
   - Measure and record the highest black or white light intensity. Ensure that the measured intensity meets the minimum required before proceeding with the examination.  
     **Note:** Candidates must include all applicable units of measure when recording the results of the calibration/performance tests above.

2. Inspect two (2) specimens:
   - Perform an inspection on each specimen using fluorescent penetrants and/or colour contrast; find all reportable indications and complete the reporting sheets provided with the specimen.  
     **Note:** Specimens for the colour contrast (visible) technique must be tested by solvent removable penetrant and aerosol spray developer only. Specimens for the fluorescent technique may be tested by either water-washable or post-emulsifiable penetrants.  
     **Note:** The specimens/techniques are assigned by the invigilator as per the directions indicated on your examination admittance and registration form.
   - Complete the reporting sheets/illustrations provided with the specimen by drawing the appearance all indications on the illustrations provided as accurately as possible and make a preliminary interpretation of your findings. Show the relative size, shape, length and location of the indications. When necessary, draw a sketch of a missing view.
   - Evaluate (accept/reject) each of the specimens according to the Evaluation Criteria Procedure in the Candidate Instructions.

3. Complete a written instruction for one of the specimens (required for **Level 2** recertification only). The instruction must be written in a way that will enable another penetrant testing inspector to easily follow your steps and duplicate your results. It should include:
   - a) foreword (scope, reference documents);
   - b) personnel;
   - c) apparatus to be used, including settings;
   - d) product (description or drawing, including area of interest and purpose of the test);
   - e) test conditions, including preparation for testing and equipment calibration;
   - f) detailed instructions for application of the test;
   - g) recording and classifying the results of test;
   - h) reporting the results.

   **Note:** You may use the general information accompanying the exam specimen for writing the instruction; however, you must keep in mind you are required to write a specific instruction to inspect a specific specimen. You may reference other sections in your reporting sheets as applicable.

**Suggestions for Success**

1. Ensure that you carefully read all examination instructions prior to proceeding with the examination requirements.
2. Do not spend too much time on one section of the exam at the expense of the other sections. You are recommended to take:
   - 30 minutes to read instructions and familiarize yourself with the requirements and the
equipment, and conduct the calibration/performance test.
- 2.5 hours to inspect the two (2) specimens and complete the reporting sheets provided.
- 1 hour to write an NDT instruction for one of the exam specimens.

3. Fill in the reporting sheets clearly, completely and concisely, ensuring that you show the correct size, shape, length and location of flaws and include all applicable units of measurement.

4. Do not hesitate to ask the invigilator questions. The invigilator will not answer a question if he/she considers it to be an exam requirement.
Eddy Current Testing

Level 1 EMC Practical Recertification Examination

General Information

Prior to the attempting the practical examination, the candidate should be aware of the following:

1. The duration of the Eddy Current Testing Level 1 (ET1) practical recertification examination is 4 hours (½ day).

2. The ET1 practical recertification examination is a closed book examination. The following items are strictly **forbidden** and must be left outside the laboratory/examination room:
   - Books, notes and papers belonging to the candidate;
   - Electronic devices (cell phones, tablets, cameras, etc.);
   - Other items that could provide answers/information for examination questions/content or are capable of recording examination material.

   Candidates may use a scientific calculator provided it does not contain information or established programs that provide solutions to examination problems. Candidates are forbidden from consulting the abovementioned materials and devices when leaving the examination room for a break/meal prior to completing the examination.

3. The candidate is **not** allowed to take the examination documents, equipment or specimens out of the laboratory/examination room. All reporting must be completed within the laboratory/examination room.

4. The candidate will be supplied with the necessary examination equipment and accessories as per NRCan NDTCB examination centre requirements, as well as all reporting sheets, any additional examination documents, and additional paper supplies (provided by the examination centre) as needed to complete the examination.

5. The candidate will be shown the operation and placement of equipment and accessories required to complete the examination, as well as the accessible surfaces of the exam specimens and reference samples. Candidates are advised to review the candidate instructions included with the examination documents.

6. Surface preparations are **not** permitted on the examination specimens. The candidate is requested to **not** mark the specimens, equipment and reference samples.

7. The candidate may ask questions concerning the examination. An invigilator may refuse to answer any questions he or she considers to be part of the examination requirements.

8. The candidate has the opportunity to provide feedback concerning the practical examination. After completing the examination, the candidate will complete the comment sheet and place it into the return envelope with the examination paper(s) prior to sealing the envelope. The comment sheet will then be sent to the NRCan NDTCB along with the examination in the sealed return envelope.

**NOTE:** If the candidate is operating unsafely or improperly while attempting their practical examination, it is the prerogative of the invigilator to discuss this situation with the candidate and, if necessary, terminate the practical examination. All such actions, as well as any special assistance given to the candidate, must be reported to the examiner on the invigilator’s assessment sheet.
ET1 EMC Practical Recertification Examination Program

ET1 EMC Practical Recertification Examination Candidates shall complete the following:

1. Perform the calibrations required as per the specimen inspection instructions.

2. Inspect two (2) specimens:
   
   - Perform an inspection on each specimen as per the specimen inspection instructions provided; find all reportable indications and complete the reporting sheets provided with the specimen.
     
     **Note:** The specimens/techniques are assigned by the invigilator as per the directions indicated on your examination admittance and registration form.
   
   - Complete the reporting sheets/illustrations provided with the specimen by drawing the appearance of all indications on the illustrations provided as accurately as possible. Show the relative size, shape, length and location of the indications. When necessary, draw a sketch of a missing view.

**Suggestions for Success**

1. Ensure that you carefully read all examination instructions prior to proceeding with the examination requirements.

2. Do not spend too much time on one part of the exam at the expense of the other parts. You are recommended to take:
   
   - 30 minutes to read instructions and familiarize yourself with the equipment.
   - 30 minutes to complete the calibration exercises.
   - 3 hours to inspect the two (2) specimens and complete the reporting sheets provided.

3. Fill in the reporting sheets clearly, completely and concisely, ensuring that you show the correct size, shape, length and location of flaws and include all applicable units of measurement.

4. Do not hesitate to ask the invigilator questions. The invigilator will not answer a question if he/she considers it to be an exam requirement.
**Eddy Current**

**Level 2 EMC Practical Recertification Examination**

**General Information**

Prior to the attempting the practical examination, the candidate should be aware of the following:

1. The duration of the Eddy Current Testing Level 2 (ET2) practical recertification examination is 8 hours (1 day).

2. The ET2 practical recertification examination is a closed book examination. The following items are strictly **forbidden** and must be left outside the laboratory/examination room:
   - Books, notes and papers belonging to the candidate;
   - Electronic devices (cell phones, tablets, cameras, etc.);
   - Other items that could provide answers/information for examination questions/content or are capable of recording examination material.

   Candidates may use a scientific calculator provided it does not contain information or established programs that provide solutions to examination problems. Candidates are forbidden from consulting the abovementioned materials and devices when leaving the examination room for a break/meal prior to completing the examination.

3. The candidate is **not** allowed to take the examination documents, equipment or specimens out of the laboratory/examination room. All reporting must be completed within the laboratory/examination room.

4. The candidate will be supplied with the necessary examination equipment and accessories as per NRCan NDTCB examination centre requirements, as well as all reporting sheets, any additional examination documents, and additional paper supplies (provided by the examination centre) as needed to complete the examination.

5. The candidate will be shown the operation and placement of equipment and accessories required to complete the examination, as well as the accessible surfaces of the exam specimens and reference samples. Candidates are advised to review the candidate instructions included with the examination documents.

6. Surface preparations are **not** permitted on the examination specimens. The candidate is requested to **not** mark the specimens, equipment and reference samples.

7. The candidate may ask questions concerning the examination. An invigilator may refuse to answer any questions he or she considers to be part of the examination requirements.

8. The candidate has the opportunity to provide feedback concerning the practical examination. After completing the examination, the candidate will complete the comment sheet and place it into the return envelope with the examination paper(s) prior to sealing the envelope. The comment sheet will then be sent to the NRCan NDTCB along with the examination in the sealed return envelope.

**NOTE:** If the candidate is operating unsafely or improperly while attempting their practical examination, it is the prerogative of the invigilator to discuss this situation with the candidate and, if necessary, terminate the practical examination. All such actions, as well as any special assistance given to the candidate, must be reported to the examiner on the invigilator’s assessment sheet.

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ET2 EMC Practical Recertification Examination Program

ET2 EMC Practical Recertification Examination Candidates shall complete the following:

1. Perform the calibrations required as per the specimen inspection instructions.

2. Inspect two (2) specimens:
   - Perform an inspection on each specimen as per the specimen inspection instructions provided; find all reportable indications and complete the reporting sheets provided with the specimen.
     
     Note: The specimens/techniques are assigned by the invigilator as per the directions indicated on your examination admittance and registration form.

   - Complete the reporting sheets/illustrations provided with the specimen by drawing the appearance all reportable indications on the illustrations provided as accurately as possible and make a preliminary interpretation of your findings. Show the relative size, shape, length and location of the indications. When necessary, draw a sketch of a missing view.

3. Complete a written instruction for one of the specimens (required for Level 2 recertification only). The instruction must be written in a way that will enable another eddy current testing inspector to easily follow your steps and duplicate your results. It should include:
   a) foreword (scope, reference documents);
   b) personnel;
   c) apparatus to be used, including settings;
   d) product (description or drawing, including area of interest and purpose of the test);
   e) test conditions, including preparation for testing and equipment calibration;
   f) detailed instructions for application of the test;
   g) recording and classifying the results of test;
   h) reporting the results.

   Note: You may use the general information accompanying the exam specimen for writing the instruction; however, you must keep in mind you are required to write a specific instruction to inspect a specific specimen. You may reference other sections in your reporting sheets as applicable.

IMPORTANT NOTICE: Inspection of Fastened Assembly
If you inspect the fastener holes, you will find some which are definitely flawed, others which are definitely sound. Identify the flawed fastener holes on the sketch provided. There will be cases where the signal obtained from a fastener hole is so small that it will be difficult to interpret. Indicate such discrepancies on the sketch and explain the source of the signal. The NDTCB examiner is looking for a "reasonable" explanation and not necessarily the "accurate" explanation.

Suggestions for Success
1. Ensure that you carefully read all examination instructions prior to proceeding with the examination requirements.
2. Do not spend too much time on one part of the exam at the expense of the other parts. You are recommended to take:
   - 30 minutes to read instructions and familiarize yourself with the equipment.

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30 minutes to complete the calibrations.
6 hours to inspect two the (2) specimens and complete the reporting sheets provided.
1 hour to write an NDT instruction for one of the exam specimens.

3. Fill in the reporting sheets clearly, completely and concisely, ensuring that you show the correct size, shape, length and location of flaws and include all applicable units of measurement.
4. Do not hesitate to ask the invigilator questions. The invigilator will not answer a question if he/she considers it to be an exam requirement.
**Policy and Procedure for Candidates Using Their Own Eddy Current Equipment for Recertification Examinations**

Candidates that prefer to use their own Eddy Current equipment while attempting an ET practical recertification examination require approval for special accommodation from the Natural Resources Canada (NRCan) National Non-Destructive Testing Certification Body (NDTCB) prior to booking their examination at an Authorized Examination Centre (AEC).

In order to use his/her own ET equipment for their recertification examination the candidate must (in this order):

1) Submit a written request to the NRCan NDTCB (requests can be submitted electronically), citing the manufacturer make and model number of the equipment, and attaching a copy of the equipment's "operator's manual";

2) Receive official approval from the NRCan NDTCB prior to booking the examination;

3) Book the examination date/time with an AEC, providing the AEC with a copy of the official approval document(s) to use his/her own equipment, as well as the relevant pages from the "operator's manual" for the proper clearing of equipment memory. Candidates must give the AEC at least 10 business days notice of the special accommodation approval to use his/her own Eddy Current equipment, in order for the invigilator to have the necessary time to understand how to "clear" all data memories at the beginning and end of each day of the practical examination;

4) On the day of the examination, arrive prior to your examination with enough time for the invigilator to clear any data memory from the equipment. You must also allow the invigilator to clear any data memory from the equipment at the end of the examination.

**Examination Invigilator Responsibilities**

When a candidate has received approval from the NRCan NDTCB to use his/her own Eddy Current equipment for the ET recertification examination, the invigilator shall:

1) Clear the equipment of all data before and after the examination;

2) Document proof that the equipment has been cleared of all data before and after the examination;

3) Impose additional monitoring and recording of the examination as specified by the NRCan NDTCB.

Accommodations are authorized by the NRCan NDTCB on a case-by-case basis for each examination. The NRCan NDTCB reserves the right to reject a candidate’s request to use his/her own equipment if the Certification Body determines that the equipment’s memory cannot be adequately cleared or that the equipment may provide an unfair advantage to the candidate. If the candidate fails to meet the above deadline to notify the AEC of the accommodation approval, they will not be allowed to use their own equipment, or must schedule the exam for a later date.

**Note:** Candidates may be subject to any additional fees incurred at the examination centre to provide this accommodation. Additional monitoring and recording may be imposed by the AEC and the NDTCB to ensure the integrity of the examination process due to this accommodation.

If it is discovered that at any time during or after the examination the candidate deliberately mislead the invigilator on the procedure for clearing the memory or attempted to leave the testing facility with exam information in the equipment’s memory, or did not otherwise abide by the examination rules or perpetrates/is an accessory to fraudulent conduct, the candidate will be subject to disciplinary action in accordance with the NRCan NDTCB Procedure for Code of Conduct Violations.

Candidates using their own Eddy Current equipment for their recertification examination are expected to successfully complete all components of the recertification examination and meet the minimum reporting requirements of the recertification examination in order to receive a passing grade. The candidate assumes full responsibility for the working state of the equipment, and any direct or indirect issues (costs) borne by the candidate and the AEC. Should the equipment fail during the examination, the candidate assumes full liability and will not have grounds to appeal the examination process or the results.
**Level 3 All Methods**

**Level 3 Recertification Examinations for All Methods and Sectors**

Candidates for level 3 recertification are required to successfully complete the following for each level 3 certification:

a) Complete the **level 2 practical recertification examination** for the corresponding method/sector. Information about level 2 recertification examinations is contained in the pages above. Please note that the written instruction component of the Level 2 practical recertification examination is **not** required for Level 3 recertification.

Note: Per CAN/CGSB-48.9712-2014, paragraph 11.3.1, the Level 2 practical recertification exam is required; the NDTCB has determined that alternative documentation cannot be reliably and consistently assessed within the scope of the national program, and therefore is not acceptable evidence of continued practical competence.

b) Complete a Level 3 recertification written examination or satisfy the requirements for the **Structured Credit System**.

**Level 3 Recertification Written Examination**

The Level 3 written recertification examination is a closed book examination. The following items are strictly **forbidden** and must be left outside examination room:

- Books, notes and papers belonging to the candidate;
- Electronic devices (cell phones, tablets, cameras, etc.);
- Other items that could provide answers/information for examination questions/content or are capable of recording examination material.

Candidates may use a scientific calculator provided it does not contain information or established programs that provide solutions to examination problems. Candidates are forbidden from consulting the abovementioned materials and devices when leaving the examination room for a break/meal prior to completing the examination.

The duration of the written examination is 1 1/2 hours. The exam consists of forty-five (45) multiple choice questions pertaining to codes/specifications, CAN/CGSB 48.9712 standard and method specific applications.

The candidate shall answer forty (40) of the forty-five (45) questions, as follows:

- 5 out of 6 questions on the codes/specifications section
- 5 out of 6 questions on the CAN/CGSB 48.9712 standard section
- 30 out of 33 questions on the method specific application section

**Suggestions for Success: Written Examinations**

1. The NRCan NDTCB recommends that all candidates for NDT written recertification examinations study extensively prior to attempting a written examination.
2. When you begin your written examination, ensure that you carefully read the examination instructions prior to reading and answering the questions.
3. Before you answer a multiple-choice question, ensure that you carefully read the stem (beginning portion) of the question and each alternative answer in order to accurately understand the question.
4. Remember that although more than one multiple-choice alternative answer may appear to be correct or partially correct, only the **best** answer is correct.
5. If you have difficulty with choosing an answer to a multiple-choice question, proceed by first eliminating the alternative answers that you believe are incorrect, and then choose between the remaining alternative answers.

6. If you find that you cannot answer a question, proceed to the next question(s), and return to any unanswered questions prior to the end of the examination. Do not spend too much time on difficult questions at the expense of completing the remaining questions.

Structured Credit System for Level 3 Recertification

In this system, during the five years prior to recertification, the Level 3 candidate gains credit for participation in the various activities as shown in the table below. Limits are placed on the maximum number of points which can be gained in each year, and in any activity over the five years, to ensure an even spread of activities.

To be eligible for recertification via Structured Credit System:
- A minimum of 70 points shall be accrued during the five year validity of the certificate.
- A maximum of 25 points per year will be accepted.

Note: A structured credit system application counts as a written examination attempt for recertification and cannot be withdrawn once it has been submitted. If you submit a structured credit system application and it is not approved, it counts as a failed written recertification examination attempt. Only one attempt of the structured credit system is allowed per level 3 method.

Structured Credit System Application Submission Instructions:

1. Ensure that you have submitted a recertification application for the applicable level 3 method(s).
2. Fill out separate Structured Credit System Application Forms for each Level 3 method that you would like to submit an application for. Your application(s) will not be accepted if you submit an application form with more than one method indicated on page 1.
3. Attach applicable documentary evidence for each activity that you would like to be credited for, ensuring that you indicate which activity each piece of documentation corresponds to.
4. Submit your application form(s) and documentary evidence to the NRCan NDTCB for review and assessment well in advance of your recertification due date.

In addition to submitting a recertification application, and a “Structured Credit System Application Form”, the candidate shall submit evidence of satisfying the criteria of Table A (below) as follows:
- The agenda and list of attendees for the meetings in activities 1 to 7;
- A brief description of research and development in activities 8-10;
- The references of technical or scientific publications authored in activities 8-10;
- A summary of training delivered in activity 11;
- For each certificate, evidence of work activity per year in activities 12-14.

Note: Other forms of documentary evidence may be accepted. When submitting documentary evidence, candidates must indicate which Structured Credit System Activity each piece of documentation corresponds to. For evidence to be considered valid and satisfactory, the candidate may require their documentation to be submitted with employer and/or third party attestations and signatures, attesting to the validity of the information provided.
### Level 3 All Methods

#### Table A: Structured Credit System Activities and Accorded Points For Level 3 Recertification

(This table and its contents are interpreted from CAN/CGSB-48.9712-2014 / (ISO 9712:2012, IDT)Table C.1.)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Number of points for activity</th>
<th>Maximum points per year for activity</th>
<th>Maximum points per 5-year period for activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity #1: Membership of an NDT society, attendance at seminars, symposia, conferences and/or courses covering NDT and related sciences and technologies.</td>
<td>1 point</td>
<td>3 points per year</td>
<td>8 points per five years</td>
</tr>
<tr>
<td>Activity #2: Attendance at international and national standardization committees.</td>
<td>1 point</td>
<td>3 points per year</td>
<td>8 points per five years</td>
</tr>
<tr>
<td>Activity #3: Convenorship of standardization committees.</td>
<td>1 point</td>
<td>3 points per year</td>
<td>8 points per five years</td>
</tr>
<tr>
<td>Activity #4: Attendance at sessions of other NDT committees.</td>
<td>1 point</td>
<td>3 points per year</td>
<td>8 points per five years</td>
</tr>
<tr>
<td>Activity #5: Convenorship of sessions of other NDT committees.</td>
<td>1 point</td>
<td>3 points per year</td>
<td>8 points per five years</td>
</tr>
<tr>
<td>Activity #6: Attendance at sessions of NDT related working groups.</td>
<td>1 point</td>
<td>5 points per year</td>
<td>15 points per five years</td>
</tr>
<tr>
<td>Activity #7: Convenorship of NDT related working groups.</td>
<td>1 point</td>
<td>5 points per year</td>
<td>15 points per five years</td>
</tr>
<tr>
<td>Activity #8: NDT related technical/scientific contributions or publications.</td>
<td>3 points</td>
<td>6 points per year</td>
<td>20 points per five years</td>
</tr>
<tr>
<td>Activity #9: NDT related research work published.</td>
<td>3 points</td>
<td>6 points per year</td>
<td>15 points per five years</td>
</tr>
<tr>
<td>Activity #10: NDT research activity.</td>
<td>3 points</td>
<td>6 points per year</td>
<td>15 points per five years</td>
</tr>
<tr>
<td>Activity #11: NDT technical instructor (per 2 hours) and/or NDT examiner (per examination).</td>
<td>1 point</td>
<td>10 points per year</td>
<td>30 points per five years</td>
</tr>
<tr>
<td>Activity #12: Professional activity within an NDT facility, NDT training centre or NDT examination facility, or for Engineering of NDT (for each full year).</td>
<td>10 points</td>
<td>10 points per year</td>
<td>40 points per five years</td>
</tr>
<tr>
<td>Activity #13: Dealing with disputes referring to clients.</td>
<td>1 point</td>
<td>5 points per year</td>
<td>15 points per five years</td>
</tr>
<tr>
<td>Activity #14: Development of NDT applications.</td>
<td>1 point</td>
<td>5 points per year</td>
<td>15 points per five years</td>
</tr>
</tbody>
</table>

**Other restrictions and/or exceptions for each activity are as follows:**

- The combined maximum of points for activities #1-7 is 20 points.
- Points are to be given for both convenorship and attendance.
- If there is more than one author for activities #8-10, the lead author shall define points for the other authors.
- The combined maximum of points for activities #8-10 is 30 points.
- The combined maximum of points for activities #12-14 is 50 points.

**Note:** It is the responsibility of the candidate to refer to CAN/CGSB-48.9712-2014 / (ISO 9712:2012, IDT) standard to obtain full information regarding Level 3 Structured Credit System for recertification.