



CERTIFICATION BOARD FOR INSPECTION PERSONNEL

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DRAFT

**Standard of Proficiency
for the Qualification and Certification
of
Radiographic Inspection Personnel**

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New Zealand**

Contents

Section 1 Scope and General

- 1.1 Scope
- 1.2 Objectives
- 1.3 Certification Levels
- 1.4 Definitions

Section 2 Pre-Examination Requirements

- 2.1 Physical and Vision
- 2.2 Formal Training,
- 2.3 Submission of Evidence

Section 3 Examination Procedures

- 3.1 Application
- 3.2 Closing Date
- 3.3 Examination Format
- 3.4 RT1
- 3.5 RT2
- 3.6 Date and Venue
- 3.7 Examination Materials
- 3.8 Fees
- 3.9 Examination Results
- 3.10 Successful Candidates
- 3.11 Un Successful

Section 4 Certification

- 4.1 Radiation Safety License
- 4.2 Application
- 4.3 Experience
- 4.4 Submission of Evidence
- 4.5 Exemptions
- 4.6 Issue of Certificates
- 4.7 Certification Period
- 4.8 Renewal of Certification (5 year)
- 4.9 Recertification (10 year)
- 4.10 Non Renewal
- 4.11 Withdrawal or Suspension
- 4.12 Complaints and Appeals
- 4.13 Code of ethics
- 4.14 Register of Certificate Holders

Appendix A Knowledge Requirements

Appendix B Sample Examination Questions

Appendix C Grading of Practical Examination Results

Appendix D Code of Ethics

STANDARD OF PROFICIENCY FOR THE QUALIFICATION AND CERTIFICATION OF RADIOGRAPHIC INSPECTION PERSONNEL

Foreword

This Standard of Proficiency details the requirements for the qualification and certification of NDT personnel performing Radiographic Inspections (RT) in New Zealand. The following requirements are designed to comply with ISO 9712 (qualification and certification of NDT personnel).

Certification under this standard will be the responsibility of the Certification Body for Inspection Personnel (CBIP) and will provide industry with evidence of the technical ability and general competence of personnel performing inspections.

While every endeavour has been made by the Certification Body to ensure this certification meets the needs of the New Zealand NDT industry, there may be areas of the Industrial and manufacturing industry that are not fully covered by this SOP. A certain responsibility lies with the candidate's employer to assess the suitability of this certification in relation to their customer and contractual requirements. Reference should be made to the wording in ISO 9712 Para 1 – Scope. The following requirements of this Standard of Proficiency, including appendix A, can be used to assist with this assessment

1 SCOPE AND GENERAL

1.1 Scope

This Standard of Proficiency establishes a system for qualification and certification by a recognised Certification Body for personnel who perform Radiographic inspections in New Zealand.

1.2 Objectives

The objective of this Standard of Proficiency is to establish the general competency, including theoretical and practical knowledge, for personnel performing Radiographic inspections.

1.3 Certification Levels

Two (2) Levels of certification are currently defined by this standard, they are:

RT1 Radiographic Inspection Level 1 as defined by ISO 9712 Section 6

RT2 Radiographic Inspection Level 2 as defined by ISO 9712 Section 6

1.3.1 RT1

An individual certified to Level 1 shall have demonstrated competence to carry out Radiographic Inspections in accordance with written instructions. They may not work directly from general procedures or standards such as AS 2177 or ASTM E1472 as these require some interpretation. The level 1 shall work under the supervision, and be guided by a level 2 or 3 certified individual. Level 1 personnel may be authorised by their employer to perform the following

- Set up NDT equipment;
- Perform specific Radiographic Inspections;
- Report the results.

Level 1 certified personnel shall not be responsible for the choice of test method or procedure to be used, nor for the interpretation of test results

1.3.2 RT2

An individual certified to Level 2 shall have demonstrated competence to perform Radiographic Inspections according to established procedures. Level 2 personnel may be authorized by their employer to perform the following

- Work directly from RT standards and specifications such as AS 2177 and ASTM E1472
- Set up and verify equipment settings,
- Perform Radiographic Inspections,
- Interpret and evaluate results according to applicable codes, standards, specifications or procedures,
- Prepare and write RT instructions
- Supervise, guide and train level 1 personnel
- Report the results of Radiographic tests.

1.4 Definitions

Except as modified below, all definitions used in ISO 9712 shall apply to this document

Certification Body – Certification Board for Inspection Personnel (CBIP).

2 PRE-EXAMINATION REQUIREMENTS

2.1 Physical and Vision

Prior to being accepted for examination the candidate shall provide evidence of the following

- Current eyesight test (within 12 months) proving that near vision, either corrected or uncorrected, satisfies the requirements of the latest edition of ISO 9712
- English to a level of Toefl 500

Note – It is expected that each candidate shall be able to perform the required practical tests and differentiate between colours used in the procedure. Any Medical or Physical disability, including vision colour deficiencies, that may prevent the candidate from performing the required tests should be discussed with the certification body prior to application

2.2 Formal Training

Applicants for examination shall have completed formal training to the required syllabus and for the required number of hours as specified below

2.2.1 Radiographic Inspection Level 1 (RT1)

Applicants for examination for level 1 shall:

- Have attended a theory course in Radiographic inspection acceptable to the Certification Body. The course shall total at least 40 hours.

2.2.2 Radiographic Inspection Level 2 (RT2)

Applicants for examination for level 2 shall:

- Have attended a **level 2** theory course in Radiographic inspection acceptable to the Certification Body. The course shall total at least 80 hours, exclusive of any level 1 training

2.3 Submission of Evidence

Candidates shall submit to the Certification Body documented evidence of completion of the required training relevant to the examination.

3 EXAMINATION PROCEDURES

3.1 Application

Application for each examination shall be accompanied by a completed application form and documented evidence supporting pre-examination requirements. An application form can be found at the end of this standard or downloaded from the CBIP website. No application will be considered until receipt of an accurately completed application form, examination fee, eye test certificate and qualifying training course attendance.

3.2 Closing Date

All applications and supporting documentation must be received at least 6 weeks prior to any advertised examination dates, or as otherwise specified by the Certification Body via its website.

3.3 Examination Format

Qualification for both RT1 (Level 1) and RT2 (Level 2) shall be by way of a three part examination consisting of two written examinations and a practical examination. The written exam papers shall comprise a general paper and a specific paper. The exams shall be carried out at a place nominated by CBIP.

Progress to the practical examination will be possible only after passing the required written examinations. However, due to exam venue limitations, the Certifying Body may accept simultaneous applications for all 3 exams

3.4 RT1

3.4.1 RT1 (Level 1) General Paper (Written)

- 40 multi choice questions covering the general theory of Radiographic Testing.
- 90 minutes duration, multiple choice questions in a closed book format.
- Refer to appendix for exam topics and sample questions
- Pass mark of 70% required

3.4.2 RT1 (Level 1): Specific Paper (Written)

- 20 multi choice and 10 short answer questions covering specific applications of the Radiographic Testing method.
The questions may involve X-Ray and Gamma equipment, and questions on standards, specifications and procedures. Some basic knowledge of inspection equipment is also required.
- Permitted reference material AS 2177 and this Standard of Proficiency
- 2.5 Hour duration,
- Refer to appendix for exam topics and sample questions
- Pass mark of 70% required

3.4.3 RT1 (Level 1) Practical examination

The practical examination shall comprise of inspection and reporting on at least 3 samples. The examination shall be carried out in accordance with a detailed written instruction supplied by the examiner and should comply with AS 2177. An examination observer will be present and will allocate marks (15%) in accordance with a check sheet supplied by the Certification Body. Written examination reports, including defect indications and datum, will be required to be presented to the examiner at the end of the test. A report pro-forma will be supplied to the candidate.

Time allowed will be 4 hours.

Pass mark of 70% required

3.5 RT2

3.5.1 RT2 (Level 2) General Paper (Written)

- 40 multi choice questions at level 2 covering the general theory of Radiographic Testing.
- 90 Minutes duration, multiple choice questions in a closed book format.
- Refer to appendix for exam topics and sample questions
- Pass mark of 70% required

3.5.2 RT Level 2: Specific Paper (Written)

- 20 multi choice and 10 short answer questions covering specific applications of the Radiographic Testing method.
The questions may involve X-Ray and Gamma equipment, and questions on standards, specifications and procedures. Knowledge of inspection equipment, calibration and use is also required.
In addition, at level 2, knowledge of this proficiency Standard, ISO 9712 and the Certification Body's Code of Ethics is required. Due to this, the specific paper may contain questions relating to these documents
- Permitted reference material AS 2177, and this Standard of Proficiency
- 2.5 Hour duration,
- Refer to appendix for exam topics and sample questions
- Pass mark of 70% required

3.5.3 RT Level 2 Practical Examination

The practical examination shall consist of two (2) parts

1) Practical Test

The practical test shall consist of an inspection and reporting on at least 3 samples. The examination shall be carried out in accordance with a Standard Practice or General Procedure such as AS 2177. This will require the level 2 applicant to interpret the document and determine the inspection procedure.

An examination observer will be present and will allocate marks (15%) in accordance with a check sheet supplied by the Certification Body. Written examination reports, including defect indications, datum and interpretation, will be required to be presented to the examiner at the end of the test. This report should conform to the requirements of the nominated General Procedure. No pro-forma worksheet will be supplied, but candidates may use their own company report sheets.

2) Written Instruction (Procedure)

The second part shall consist of producing a written Instruction for the inspection of a specific part nominated by the Certification Body. The instruction shall be such that it complies with the requirements of AS 2177 and can be used by a level 1 with no interpretation required

Time allowed will be 4 hours including the written Instruction.

Pass mark of 70% required

3.6 Date and Venue:

Examination dates and venues will be at the discretion of the Certification Body and posted on the website in a timely manner

3.7 Examination Materials

All examination materials, including papers and test pieces, shall be controlled and remain the property of the Certification Body.

3.8 Fees:

The Certification Body shall set the examination fees for the certificate sought. All fees must be paid upon application.

3.9 Examination results:

All candidates whether successful or unsuccessful should, except in exceptional circumstances, be notified of the result in writing within six weeks of the date of the examinations.

3.10 Successful Candidates

Successful candidates who pass all examinations at level 1 or level 2 may apply to the Certification Body for certification as per section 4 below.

3.11 Unsuccessful Candidates (Not yet competent)

Candidates failing any one of the required examinations may apply to resit that exam within a period of two (2) years from the date of the failed examination. This can only be carried out up to a maximum of two (2) times.

Applications for re sitting examinations shall be accompanied by evidence of additional training and experience

Candidates failing the re-examination on the second attempt will be required to take all examinations in accordance with the established procedure for new candidates.

4 CERTIFICATION

4.1 Radiation safety License

It is a requirement that all personnel operating ionising equipment within New Zealand hold a current Radiation Safety License issued by the National radiation Laboratory. This Radiation Safety License also demonstrates that the person has achieved a certain level of awareness and knowledge regarding the safe handling and transport of ionising equipment.

Due to this CBIP requires documented evidence of a current NRL Safety License prior to issue of RT1 or RT2 certificates

4.2 Application

Application for certification shall be accompanied by a completed application form and documented evidence supporting completion of the following experience requirements. An application form can be downloaded from the CBIP website. No application will be considered until receipt of an accurately completed application form, successful examination results, evidence of a current NRL Safety License and documented evidence of the required industrial experience.

4.3 Experience

Experience in months will be based on a nominal 40 hour week, provided the candidate is working full time in the Radiographic method.

Note - Candidates may be accepted for examination without the required experience, however the examination results only remain valid for a period of 24months from the date of passing the final examination. During this time the required experience may be obtained and documented evidence (confirmed by the employer) submitted to the Certification Body. An application for certification will then be considered by CBIP.

4.3.1 Radiographic Inspection Level 1 (RT1)

Applicants for level 1 shall:

- Have at least 3 months (120 hours) experience in the Radiographic Inspection method not including any organised theory or practical training courses. For the experience to be valid it should be gained under the direct supervision of a Level 2 or 3 certified person.

4.3.2 Radiographic Inspection Level 2 (RT2)

Applicants for level 2 shall:

- Have at least 9 months (1,440 hours) experience in the Radiographic Inspection method at **level 1**, not including any organised theory or practical training courses. For the experience to be valid it should be gained under the control of a Level 2 or 3 certified person.

4.4 Submission of Evidence

Candidates shall submit to the Certification Body, documented evidence of experience that is relevant to the certification being sought.

At least 50% of the submitted evidence detailing the number of hours shall be by way of Timesheets, Logbooks or Workbooks (or equivalent). CBIP reserves the right to reject any evidence that does not have enough (or appropriate) supporting documentation.

4.5 Exemptions

Exemptions may be given on application to the Certification Body for PT Level 1, and 2 for qualifications obtained in other national qualification schemes which are accredited to ISO 9712. Any certificate issue by the Certification Body shall only be valid for the remaining period of the original (overseas) certificate, and the Certification Body will charge a fee for any such issue. The CBIP certificate will only be issued for levels and categories where the examination and certification requirements of the original certificate clearly meet or exceed the requirements for the CBIP level or category.

In some cases the qualification requirements may be reduced where the candidate's presented qualifications are acceptable in part only, provided the evidence has been reviewed and found to be acceptable by the Certification Body.

The Certification Body may use a panel, made up of members of its choosing, to assess any request for examination exemptions.

Final certification and issue of certificates remains the sole responsibility of the Certification Body

4.6 Issue of Certificates

The Certification Body shall issue certificates to successful candidates.

The certificate shall contain at least:

- Level of certification
- Identity of the issuing Certification Body.
- Identity and signature of the person to whom the certificate applies.
- Date of issue and the expiry date.
- Title and unique number of the certificate.
- Signature and name of the person authorising the certificate.

The certificate shall remain the property of the Certification Body.

4.7 Certification Period

Certification will be valid for a period of five years from the date on the certificate

4.8 Renewal of Certification (5 year)

Prior to the completion of the first five (5) year period of validity, certification may be renewed by the certification body for a further five (5) years, provided the certificate holder supplies the following documented evidence:

- Current (within 12 months) Eyesight test conforming to the Pre Examination requirements of this standard
- Current (within 12 months) NRL radiation Safety License
- Continued satisfactory work activity, relevant to the certification, without an interruption of 12 months or more.
Acceptable forms of supporting evidence should be by Logbook, Work Records/Reports and Employer statements.

If the criterion for renewal cannot be met, the individual shall follow the same rules as for recertification

4.9 Recertification (10 year)

Prior to completion of each second five (5) year period of validity, or at least every ten years, the certified individual shall be recertified by the Certification Body for a further five (5) years, provided the individual meets the criterion for renewal and meets the following:.

- Successfully complete a practical examination similar to that required for initial certification

Renewal and Recertification shall be the responsibility of the certificate holder

Personnel seeking certification renewal / recertification shall apply at least 30 days before the expiry date given on their Certificate. Include a general written summary of work history and employment covering the five year certification period relevant to the certification

Where a person does not seek renewal or re-certification, their certification will automatically lapse or be withdrawn.

4.10 Non-Renewal

Where an applicant fails to be granted renewal or recertification, the Certification Body shall advise the applicant in writing, giving appropriate reasons.

The candidate's certification shall lapse at the expiry date, after which any future application for certification will be treated as a new application. Alternatively, the candidate may elect within one month to:

- Submit further evidence to the Certification Body and/or
- Re-sit the appropriate examination or examinations (only one resit will be permitted).

Alternatively the applicant may make a formal submission to the Certification Body for resolution in accordance with the Certification Body's appeals procedure

4.11 Withdrawal or Suspension of Certificates

4.11.1 Withdrawal:

The Certification Body may withdraw a certificate where an authenticated complaint of the person's proficiency and/or competence has been received and substantiated. The Certification Body may also withdraw a certificate where an authenticated complaint of a breach of the CBIP Code of Ethics has been received and substantiated. When the Certification Body substantiates a complaint the certificate shall not be renewed without further examination(s). Following a request by the Certification Body the certificate holder shall surrender and return his/her Certificate to the Certification Body.

4.11.2 Suspension:

If there is any break, or interruption of the certified individual exceeding 24 months from practical work in the category qualified, the certification shall be suspended until the Certification Body is satisfied by submission of written evidence that the applicant is competent for re-certification.

4.12 Complaints and Appeals

Appeals against withdrawn or suspended certificates may be made to the CBIP Board in accordance with the Certificate Body's appeals procedure.

CBIP maintains a documented procedure for the resolution of complaints and appeals. All complaints and appeals shall be conducted in accordance with this procedure. (QPM 19 in the CBIP Quality Manual)

4.13 Code of Ethics

A certified individual shall be familiar with and recognise that precepts of personal integrity are fundamental, and shall meet the Code of Ethics of the Certification Body at all times. All applicants shall, as part of their application, sign a document stating that they have read, understood and agree to abide by the CBIP Code of Ethics.

4.14 Register of Certificate Holders

The Certification Body maintains a register of persons holding current certification that is available for public viewing.

APPENDIX A

RADIOGRAPHIC INSPECTION Knowledge requirements (General)

| INTRODUCTION | RT1 | RT2 |
|--|------------|------------|
| Introduction to basic Radiographic Inspection concepts | X | X |
| History | | X |
| Capabilities and Limitations | X | X |
| | | |
| PHYSICS of RADIOGRAPHY | | |
| The Atom, Electron, Proton and Neutron | X | X |
| Atomic Number | X | X |
| Mass Number | X | X |
| Isotope | X | X |
| | | |
| ELECTROMAGNETIC RADIATION | | |
| Photon | X | X |
| X-Rays and Gamma rays | X | X |
| Alpha and Beta particles | X | X |
| Radioactive decay | X | X |
| Activity | X | X |
| Specific activity | | X |
| | | |
| RADIATION INTERACTION with MATTER | | |
| Ionisation | | |
| Photoelectric effect | | |
| Pair production | | |
| Compton scattering | | |
| Attenuation | | |
| Coefficient of absorption | | |
| Half value layers | | |
| Inverse square law | | |
| | | |
| THE X-RAY MACHINE | | |
| Anode and Cathode | | |
| Voltage and tube/filament current | | |
| Shielding, hoods and inherent filtration | | |
| Anode Targets | | |
| Constant potential units | | |
| Characteristic X RAYS | | |
| Monochromatic radiation | | |
| Radiation energy/quality | | |
| Intensity | | |
| Linear accelerator | | |
| Betatron | | |
| Panoramic and end anode machines | | |

| | | |
|--|--|---|
| GAMMA SOURCES | | |
| Decay rate | | |
| Specific activity | | |
| Energy and intensity | | |
| Curie and source size | | |
| Source production Neutron capture | | |
| Alpha, Beta, Gamma emission | | |
| K. Capture | | |
| Self absorption | | |
| Iridium 192, Half life, penetrating ability and gamma energy | | |
| Cobalt 60 Half life, penetrating ability and gamma energy | | |
| Half life | | |
| Exposure devices and safety | | |
| Curie, Roentgen, Rad, Rem | | |
| Becquerel, Sievert, Gray | | |
| | | |
| RADIOGRAPHIC FILMS | | |
| Film emulsion | | |
| Grain size and speed | | |
| Characteristic (H and D) curves | | |
| Radiographic and Film contrast | | |
| Density including logs | | |
| Film selection | | X |
| Lead oxide screens | | |
| Fluorescent screens | | |
| | | |
| | | |
| PROCESSING | | |
| Darkroom equipment | | |
| Developer and Fixer solutions | | |
| Developer activity | | |
| Wash baths | | |
| Temp and time | | |
| Development problems | | |
| Processing tanks and dryers | | |
| Automatic development | | |
| | | |
| RADIOGRAPHIC QUALITY | | |
| Radiographic contrast | | |
| Factors effecting Subject contrast | | |
| Factors effecting Film contrast | | |
| Definition | | |
| Ug | | |
| Focal or source size | | |
| FFD and SFD and Film to object distance | | |
| Film Graininess | | |
| IQI's and Penetrameters, Wire type and plaque/hole type | | |
| | | |
| | | |

| | | |
|--|---|---|
| SCATTER | | |
| Cones, diaphragms, collimators masks | | |
| Filters | | |
| Backscatter | | |
| Side scatter | | |
| Internal scatter | | |
| Undercut | | |
| | | |
| RADIOGRAPHIC PROCEDURES | | |
| Film radiography | | |
| Fluoroscopy | | |
| Image amplifier | | |
| Xeroradiography | | |
| Stereoradiography | | |
| Double exposure (Parallax) | | |
| Flash radiography | | |
| | | |
| SCREENS | | |
| Lead foil | | |
| Fluorescent | | |
| | | |
| SAFETY | | |
| Time, Distance and Shielding | X | X |
| Detection devices, Films, survey meters and dosimeters | X | X |
| Biological effects | X | X |
| Half Value Layers | X | X |
| ALARA | X | X |
| | | |
| INTERPRETATION | | |
| Film viewers | X | X |
| Density, sensitivity and contrast | X | X |
| Typical defect indications. Eg cracks, porosity and lack of fusion | X | X |
| | | |
| | | |
| EQUIPMENT CHECKS | | |
| Processor checks | X | X |
| X-Ray unit calibration | X | X |
| | | |
| FORMULA and CALCULATIONS | | |
| Exposure eg MAM | X | X |
| Using the dated decay curve | X | X |
| Changing density using the Characteristic curve | | X |
| Changing SFD | X | X |
| Using HVL's to estimate intensity | X | X |
| | | |

| | | |
|------------------------|--|--|
| BASIC MATERIALS | | |
| | | |
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RADIOGRAPHIC INSPECTION
Knowledge Requirements - Specific

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| | | |
| | | |
| | | |
| | | |
| CODES, STANDARDS and supporting documents | | |
| This Standard of Proficiency | | |
| CBIP Code of Ethics | | |
| AS 2177 | | |
| ASTM E 1472 | | |
| | | |
| | | |

Appendix B

RADIOGRAPHY SAMPLE EXAMINATION QUESTIONS

RT1 RADIOGRAPHIC INSPECTION LEVEL 1 GENERAL (40 Multi Choice)

- 1 The process by which a photon of energy removes an electron from the orbit of an atom is known as:
 - A. Cell division
 - B. K capture
 - C. Redundancy
 - D. Ionization

- 2 During manual film processing, the purpose of the stop bath is to:
 - A. Change the exposed silver salts to black metallic silver
 - B. Neutralize the developer and stop the developing process
 - C. Eliminate most water spots and streaks
 - D. None of the above

- 3 As a check on the quality of the radiograph, it is customary to use a set of small wires with different diameters, known as a:
 - A. Reference plate
 - B. Lead screen
 - C. Penetrameter or IQI
 - D. Illuminator

RT1 RADIOGRAPHIC INSPECTION LEVEL 1 SPECIFIC PAPER (20 Multi Choice and 10 short answer)

- 1 According to the CBIP Standard of Proficiency Radiographic Inspection, Level 1 personnel may be authorised to perform which of the following.
 - A. Set NDT equipment
 - B. Perform specific PT inspections only
 - C. Report on the results of the inspection
 - D. All of the above

- 2 Discuss how the intensity of radiation from a point source varies over distance, and estimate the change in intensity when the distance is tripled

RT2 RADIOGRAPHIC INSPECTION LEVEL 2 GENERAL PAPER (40 Multi Choice)

- 1 The absorption of X-rays when passing through a particular material depends on:
 - A. The atomic number, density, and thickness of the material
 - B. The stress/strain relationship of the material
 - C. The temperature of the material
 - D. The temperature and elastic limit of the material

- 2 When radiographing a casting which contains a large crack, the crack will appear on the radiograph as:
 - A. A dark, intermittent or continuous line
 - B. A light, irregular line
 - C. A series of round dots
 - D. A light, intermittent or continuous line

- 3 One technique that could be used to produce a radiograph of a high speed event, such as an arrow in flight is known as:
 - A. Stereo radiography
 - B. Flash radiography
 - C. Gamma motion
 - D. Micro second Radiography

RT2 RADIOGRAPHIC INSPECTION LEVEL 2 SPECIFIC PAPER (20 Multi Choice and 10 short answer)

- 1 List all the information that would usually be found on a X-Ray exposure chart

Appendix C

RT1 and RT2 Practical examinations

The marks allocated for the Level 1 and 2 Practical examinations will be in accordance with a set of pre defined criteria

The following gives general information on how the marks are allocated at each level

RT1

Correct use of the equipment

Correct interpretation of the written instruction

Performance of the inspection

Finding all mandatory indications

Defect datum

Reporting

Note: A candidate failing to report a defect specified on the master report as 'mandatory shall be awarded zero marks in the Recording and Reporting part of the practical examination.

RT2

Selection and correct use of the equipment

Equipment control and checks

Correct interpretation of standard / Code

Performance of the inspection

Finding all mandatory indications

Defect datum

Reporting

Writing Level 1 Instruction 15%

Note: A candidate failing to report a defect specified on the master report as 'mandatory shall be awarded zero marks in the Recording and Reporting part of the practical examination.

Appendix D

CERTIFICATION BOARD FOR INSPECTION PERSONNEL

CODE OF ETHICS

AIM

To safeguard the public's health and well being and to maintain high standards of skills, practices and integrity in the profession of inspection and non destructive testing, the following requirements shall be binding on ANY person holding a current certificate of proficiency issued by CBIP.

INTEGRITY

CBIP certified persons are obliged to act with integrity in the pursuance of their occupation for each client, customer or employer and shall be honest and impartial.

RESPONSIBILITY TO THE PUBLIC

CBIP Certified persons shall in the pursuance of their occupational duties:

- (i) Undertake and perform inspections only when qualified by training, capability and experience.
- (ii) Be objective and factual in any verbal, written report, statement or testimony of any work performed.
- (iii) Sign only for work carried out by them or for work that they have personal knowledge of through direct technical control or have verified the authenticity of the work signed for.
- (iv) Neither associate with nor knowingly participate in a fraudulent or dishonest venture.

SOLICITATION AND INDUCEMENTS

CBIP certified person shall not in the pursuance of their employment:

- (i) Pay, Offer or Accept, directly or indirectly, any bribe or commission for professional employment except for the commission required by licensed employment agencies or duties performed.
- (ii) Falsify, exaggerate or permit misrepresentation of their academic and professional qualification.
- (iii) Function as an independent consultant in technical matters outside the capability of their CBIP certification.

CBIP certified persons shall perform and carry out inspections in a proper manner as required by contract, customer order, code of practice, standard or specification unless any deviation is noted in any written report, statement or testimony of the work performed.

PUBLIC STATEMENTS

CBIP Certified persons shall issue no statements, criticisms or arguments on inspection or non-destructive testing matters unless it is founded upon sound information of the facts in issue, upon a background of technical competence in the subject matter and upon honest conviction of the accuracy and propriety of the statements, criticism or argument.

CONFLICT OF INTEREST

CBIP Certified persons shall:

- (i) Conscientiously avoid conflict of interest with the employer or client, but when unavoidable shall forthwith disclose the circumstances to the employer or client.
- (ii) Promptly inform the employer or client of any business associations, interests or circumstances which could influence their judgement or the quality of services to the employer or client.
- (iii) Not accept payment, compensation, financial or otherwise from more than one party for services on the same project or from services pertaining to the same project or from services pertaining to the same project unless the circumstances are fully disclosed and agreed to, by all interested parties or their agents.

UNAUTHORISED PRACTICE

Any violation of this code shall be deemed to be an unauthorised practice and upon proper complaint, investigation and findings of the complaints committee, subject to appeal by the CBIP Board, sanctions may be applied to the individual(s) in violation.

END