



**CERTIFICATION BOARD FOR INSPECTION PERSONNEL**

**DOCUMENT No CBIP – MPI – 1 - 2008**

**DRAFT**

**Standard of Proficiency  
for the Qualification and Certification  
of  
Magnetic Particle Inspection Personnel**

**Initial edition November 2008**

**Issued under the Authority of the Certification Body for Inspection Personnel,  
New Zealand**

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# STANDARD OF PROFICIENCY FOR THE QUALIFICATION AND CERTIFICATION OF MAGNETIC PARTICLE INSPECTION PERSONNEL

## Foreword

This Standard of Proficiency details the requirements for the qualification and certification of NDT personnel performing Magnetic Particle Inspection (MPI) 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 Magnetic Particle inspection 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 Magnetic Particle inspections.

### 1.3 Certification Levels

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

**MT1** Magnetic Particle Level 1 as defined by ISO 9712 Section 6

**MT2** Magnetic Particle Level 2 as defined by ISO 9712 Section 6

### **1.3.1 MT1**

An individual certified to Level 1 shall have demonstrated competence to carry out Magnetic Particle Inspections in accordance with written instructions. They shall not work directly from general procedures or standards such as AS 1171 or ASTM E1444 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 Magnetic Particle Inspections;
- Report the results.

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

### **1.3.2 MT2**

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

- Work directly from MPI standards and specifications such as AS 1171 and ASTM E1444
- Set up and verify equipment settings,
- Perform Magnetic Particle Inspections,
- Interpret and evaluate results according to applicable codes, standards, specifications or procedures,
- Prepare and write MPI instructions
- Supervise, guide and train level 1 personnel
- Report the results of non-destructive 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 Magnetic Particle Level 1 (MT1)**

Applicants for examination for level 1 shall:

- Have attended a theory course in Magnetic Particle inspection acceptable to the Certification Body. The course shall total at least 16 hours.

#### **2.2.2 Magnetic Particle Level 2 (MT2)**

Applicants for examination for level 2 shall:

- Have attended a **level 2** theory course in Magnetic Particle inspection acceptable to the Certification Body. The course shall total at least 24 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 MT1 (Level 1) and MT2 (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.

### **3.4 MT1**

#### **3.4.1 MT1 (Level 1) General Paper (Written)**

- 40 multi choice questions covering the general theory of Magnetic Particle 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 MT1 (Level 1): Specific Paper (Written)**

- 20 multi choice and 10 short answer questions covering specific applications of the Magnetic Particle Testing method. The questions may involve simple calculations, and questions on standards, specifications and procedures. Some basic knowledge of inspection equipment, such as Prods, Yokes and Bench units is also required.
- Permitted reference material; AS 1171, ISO 9712 and this SOP
- 2.5 Hour duration,
- Refer to appendix for exam topics and sample questions
- Pass mark of 70% required

### **3.4.3 MT1 (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 1171. 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 3 hours.

Pass mark of 70% required

## **3.5 MT2**

### **3.5.1 MT2 (Level 2) General Paper (Written)**

- 40 multi choice questions at level 2 covering the general theory of Magnetic Particle 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 MT Level 2: Specific Paper (Written)**

- 20 multi choice and 10 short answer questions covering specific applications of the Magnetic Particle Testing method.  
The questions may involve calculations, and questions on standards, specifications and procedures. Knowledge of inspection equipment, such as Prods, Yokes and Bench units and how they are calibrated and used 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 1171, ISO 9712 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 MT 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 1171. 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 1171 or ASTM E1444 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 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 found and downloaded from the CBIP website. Refer to the notes included in the application form detailing the application procedure.

No application will be considered until receipt of an accurately completed application form, successful examination results, and documented evidence of the required industrial experience.

### **4.2 Experience**

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

Note - Candidates may be accepted for examination without the required experience, however the examination results only remain valid for a period of 24 months 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.

#### **4.2.1 Magnetic Particle Level 1 (MT1)**

Applicants for level 1 shall:

- Have at least 1 month experience in the Magnetic Particle 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.

#### **4.2.2 Magnetic Particle Level 2 (MT2)**

Applicants for level 2 shall:

- Have at least 3 months experience in the Magnetic Particle 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.

### **4.3 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.

### **4.4 Exemptions**

Exemptions may be given on application to the Certification Body for MT 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

### **4.5 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.

### **4.6 Certification Period**

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

## 4.7 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
- 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

## 4.8 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.

## 4.9 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

## **4.10 Withdrawal or Suspension of Certificates**

### **4.9.1 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.

### **4.9.2 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.

## **4.11 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)

## **4.12 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.

## **4.13 Register of Certificate Holders**

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

## APPENDIX A

### MAGNETIC PARTICLE INSPECTION Knowledge requirements (General)

<b>MAGNETIC PARTICLE INSPECTION</b>	<b>MT1</b>	<b>MT2</b>
Introduction to basic magnetic Particle Inspection concepts	X	X
History of MPI	X	X
Capabilities and Limitations	X	X
Advantages over Penetrant	X	X
<b>MAGNETISM</b>	X	X
Theory of Magnetism	X	X
Magnetic domains	X	X
Magnetic lines of force	X	X
Magnetic poles	X	X
Bar and horseshoe magnets	X	X
Magnetic flux and flux density	X	X
<b>MAGNETIC MATERIALS</b>		
Relative Permeability		X
Dia, Para and Ferro – magnetic materials	X	X
Hysteresis B/H curve	X	X
Magnetising force vs Flux density		X
Saturation, Coercive force and Residual Magnetism	X	X
Retentivity	X	X
Magnetic Soft and Hard materials		X
Curie point	X	X
Stainless steels		X
<b>MAGNETIC FIELDS</b>		
Magnetic field in and around a non magnetic conductor	X	X
Magnetic field in and around a magnetic conductor	X	X
Magnetic field in and around a coil	X	X
Field strength	X	X
Field strength measurement	X	X
Gauss, Tesla, Weber	X	X
Oersted, kA/M	X	X
<b>MAGNETISING CURRENT</b>		
AC	X	X
PEAK and RMS		X
DC, HWDC, FWDC	X	X
Skin Effect	X	X
Ampere, Voltage and Resistance	X	X
Surface vs subsurface inspection	X	X
<b>MAGNETIC FIELD PRODUCTION</b>		
Threader bars and central conductors	X	X
Coils, fill factor and field distribution	X	X

Cable wraps	X	X
Magnetic Flow		X
Magnetic Induction		X
Magnetic yokes and prods	X	X
Permanent magnets	X	X
Portable and stationary Power sources		X
<b>MAGNETIC FIELD DIRECTION</b>		
Circular fields	X	X
Longitudinal fields	X	X
Multi directional fields	X	X
Field direction vs defect direction	X	X
<b>MAGNETIC MEDIA</b>		
Particle size, shape and permeability		X
Fluorescent and Visible particles	X	X
Wet and Dry	X	X
Concentration limits	X	X
Carrier fluids		X
<b>MPI INDICATIONS</b>		
Leakage fields	X	X
True and False indications	X	X
Relevant and Non relevant	X	X
Magnetic writing	X	X
Surface and sub surface	X	X
Basic manufacturing defect indications	X	X
In service defect indications	X	X
<b>MPI PROCEDURES</b>		
Written Instructions	X	X
Pre cleaning	X	X
Basic Circular and Longitudinal current formula	X	X
Prod and yoke leg spacing	X	X
Head and coil shot and shot timing	X	X
Residual and continuous	X	X
Interpretation and evaluation	X	X
Field verification using IQI's (Pie gage and Castrol strips)	X	X
Surface (AC) vs subsurface (HWDC)	X	X
Post cleaning	X	X
<b>DEMAGNETISATION</b>		
AC/DC and Circular/Longitudinal demagnetisation	X	X
Curie point	X	X
Residual magnetism limits	X	X
Field indicators	X	X
Measurement units	X	X
Reasons for demagnetising	X	X

<b>EQUIPMENT</b>		
Prods, Yokes and Stationary Bench units	X	X
Portable units and Power supplies		X
Coils Cables and threader bars	X	X
Flat and Spiral coils		X
White and black (UV) lighting including ambient light	X	X
Equipment checks	X	X
Light measurement	X	X
Ketos ring	X	X
<b>BASIC MATERIALS</b>		
Basic Metallurgy		X
Types of Materials – Carbon, Stainless Steel, Aluminium	X	X
Welding Processes – Common methods, terminology and defects	X	X
Manufacturing processes including basic defects	X	X

## **MAGNETIC PARTICLE INSPECTION**

### **Knowledge Requirements - Specific**

<b>Basic Specific requirements</b>		
Iron and steel manufacturing process		X
Annealing and Tempering		X
Common manufacturing defects (Casting, Forging and Grinding)	X	X
Basic inspection of common automotive parts such as crankshafts, con rods and steering parts	X	X
MPI inspection of common welded parts such as Plate, Pipe and Nozzles, including welding terms and typical defects	X	X
MPI procedures involving inspection of manufactured parts for casting and forging defects	X	X
Procedures involving inspection of parts for “in service” defects	X	X
MPI procedures involving Stationary bench units and portable yokes and Prods	X	X
Interpretation and evaluation techniques	X	X
Circular and Longitudinal current formula	X	X
<b>EQUIPMENT</b>		
Use of Bench, Yokes and Prods	X	X
Equipment checks, calibration, wet bath and particle checks, water break tests and lighting checks		X
Use of MPI accessory equipment – KETOS rings, KDS panels, extenders and shunts.	X	X
IQI's, Pie gages and Flux indicators eg Castrol (ELY) strips	X	X
Hall effect probes		X
Field indicators	X	X
		X
<b>CODES and STANDARDS</b>		X
This Standard of Proficiency and code of ethics, ISO 9712	X	X
AS 1171	X	X
ASTM E 1444		X

## Appendix B

### MAGNETIC PARTICLE SAMPLE EXAMINATION QUESTIONS

#### MT1 MAGNETIC PARTICLE LEVEL 1 GENERAL PAPER (40 Multi Choice)

- 1 Which of the following best describes the correct sequence when carrying out a wet Magnetic Particle Residual inspection using a bench unit?
  - A. Apply current, apply particles, remove particles, remove current
  - B. Apply particles, remove particles, apply current, remove current
  - C. Apply current, remove current, apply particles, remove particles
  - D. Apply current, remove particles, apply particles, remove current
  
- 2 "Magnetic particle" is a Non Destructive examination method used for:
  - A. Locating surface discontinuities.
  - B. Locating near surface discontinuities.
  - C. Both A and B.
  - D. Material separation

#### MT1 MAGNETIC PARTICLE LEVEL 1 SPECIFIC PAPER (20 Multi Choice and 10 short answer)

- 1 The legs of a portable magnetic yoke are required to be in close contact with the test object when inspecting butt welds:
  - A. To avoid overheating
  - B. To prevent arcing
  - C. To avoid damage to the yoke legs
  - D. To ensure good magnetic coupling between the legs and the test piece
  
- 2 Clamping a bolt between the heads of a Magnetic Particle horizontal bench unit and passing a current through this bolt will:
  - A. Produce a longitudinal magnetic field in the bolt
  - B. Produce a circular magnetic field in the bolt
  - C. Demagnetise the bolt
  - D. Passing a current through a bolt is not recommended as an inspection procedure
  
- 3 List the minimum information you would expect to find on a level 1 **written instruction sheet** for the Magnetic Particle inspection of a bolt

**MT2 MAGNETIC PARTICLE LEVEL 2 GENERAL PAPER (40 Multi Choice)**

- 1 The two axis on a Hysteresis curve are:
  - A. Magnetising force and Permeability
  - B. Magnetising force and Flux density
  - C. Permeability and Residual magnetism
  - D. Flux and Saturation
  
- 2 Fluorescent materials used in magnetic particle inspection have a peak response to radiate energy, of a wavelength of approximately:
  - A. 550 nm
  - B. 365 nm
  - C. 20 Lux
  - D. 200 Ft Candles

**MT2 MAGNETIC PARTICLE LEVEL 2 SPECIFIC PAPER  
(20 Multi Choice and 10 short answer)**

- 1 Which of the following casting flaws is not likely to be detected by the magnetic particle test?
  - A. Micro shrinkage
  - B. Hot tear
  - C. Stress crack
  - D. Cold shut
  
- 2 A generally accepted practice for ensuring that your DC wet MPI bench unit is operating correctly on a daily basis is to:
  - A. Test the suspension fluid for correct concentration
  - B. Use a steel test ring such as a KETOS ring
  - C. Process known defect standards
  - D. Either B or C
  
- 3 The written procedure you are working to requires the use of a magnetic particle horizontal bench unit and specifies a circular amperage value of 1500 AC amps Peak.  
Your bench unit delivers AC current and the meter reads RMS. Discuss the difference between Peak and RMS values and state the current value you would select for this inspection

## **Appendix C**

### **MT1 and MT2 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

#### **MT1**

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.

#### **MT2**

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