



APPLICATION FORM FOR NON DESTRUCTIVE TESTING EXAMINATION LEVEL II AND I PERSONNEL

According to:

EN 473 “Non destructive testing – Qualification and certification of NDT personnel – general principles”.

ISO 9712 “Non destructive testing – Qualification and certification of NDT personnel”.

NDTC 001 “Procedure for awarding WIT certificates of NDT personnel according to ISO 9712 and EN 473 Industrial Sector: Pre and in-services testing of equipment, plant and structure”.

This form shall be send back to Examination centre

NDT Examination Centre,
Thai-French Innovation Institute building,
King Mongkut’s University Technology North Bangkok,
1518 Pibulsongkram Rd., Bangsue, Bangkok, 10800

(1 week before examination)

NOTE: 1 form is required for each main NDT method for which certification is applied



List of abbreviations used in the different procedures

WIT	Welding Institute of Thailand
NDTC	Non Destructive Testing Committee of WIT



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1. INFORMATION RELATED TO DATE AND NATURE OF CERTIFICATION TESTS

1.1. Date of certification examination

...../...../.....

1.2 Testing method for which certification is applied

PT	MT	RT	UT	VT

1.3 NDT Certifications: ¹

1.3.1 Did candidate already performed examination tests for method applied:²

If yes : date of examination:

1.3.2 Is candidate already certified in another NDT method by WIT ?

2. IDENTITY

2.1. Candidate

Name:..... Surname:

Personal address (street and No.):

Town:..... Post code:

Personal telephone number:

E-Mail Address:.....

Birth date: Birth place:

Country: Nationality:

Social security number:.....

2.2. Passport photo

2 passport photos shall be appended to this file (don't stick the photos)

2.3. Employer

Company name :

Activity :

Department :

Address (street and No.):

Town:..... Post code:.....

Telephone number: Fax number

Name of the manager:

¹ A copy of results sheet shall be appended

² A copy of results sheet shall be appended



3. EDUCATION

3.1 level of education gained by the candidate :

.....

.....

3.2 training followed in NDT method for which certification is applied

Number of hours:

4. EXPERIENCE

4.1 number of months of activity in NDT method:

4.2 Function evolution

Date		Job function	Society	Total experience in months
from	to			

4.3 Detail of job function actually performed in applied method:

.....

.....

.....

.....

.....

4.4 Complementary activities in field of NDT:

.....

.....

.....

.....

.....



5. PROFESSIONAL CODE OF ETHICS

5.1 Engagement of the candidate

Candidates to WIT Certification according their level of qualification as defined in standard EN 473 or ISO 9712 certify the accuracy of the present application form and will respect following rules when they will be certified:

- perform NDT works with strict honesty and in a spirit of equity regarding each people concerned: Employers, Employees, Clients or Competitors.
- apply or make apply rules in force, codes, standards as well as applicable technical documentation for testing works they are in charge.
- apply or make apply safety rules necessary for testing method used regarding operators or public.
- inform Employer regarding any circumstance not allowing application of above rules.
- diffuse testing results only to third parties appointed by Employer.
- consider as confidential any technical or other information collected during a testing task;
- know and apply certification rules in force.
- refuse to be associated to any fraudulent action regarding certification rules.
- be up to date of testing method progress, participate to their development and inform persons they are in charge about these developments.
- Use certification only in concerned sector and for level obtained during validity period indicated on certificate.

Signature of testing agent certified according to ISO 9712 who recognizes knowing that certification is not more valid in case of violation to these rules, without prejudice WIT can bring proceedings against him

Date	Name and Surname	Signature

5.2 Engagement of the employer

NDT agents Employers, candidates to WIT certification, undertake to:

Regarding third parties:

- make perform NDT works by certified NDT agents according to standard ISO 9712 " NDT personnel qualification and certification ' general principles" when required by specification or product standard.
- don't make excessive use of its certified agent e.g. for advertising.
- don't take advantage of their NDT agents particularly when date of validity ha expired.

Regarding WIT

- know and apply qualification and certification rules in force.
- use NDT agents appropriately regarding their activity field, testing method and competence level.
- refuse to be associated to any fraudulent action regarding certification rules.
- Report to WIT any action not in conformity with professional code of ethics or serious professional mistake of the agent or any reason of withdraws or works allowance.

Regarding certified agents:

- give necessary facilities for performing and interpret non destructive tests their agents have in charge.
- don't pressurize agents in order to modify tests results.
- Respect all code of ethics rules, should this happen, applicable to person in charge of certification.

Employer recognizes knowing that certification is not more valid in case of violation to these rules, without prejudice WIT can bring proceedings against him.

Date	Name , Surname and job function	Signature



6. MEDICAL APTITUDE FOR TESTING METHOD APPLIED

(to be filled by the doctor)

Name:

Surname:

Company:

Candidate is physically qualified for testing method applied:

YES

NO

Candidate shall have corrective glasses for testing method applied:

YES

NO

Candidate visual aptitude is satisfactory for testing method applied:

YES

NO

Result of ophthalmological examination

- **Jaeger test or equivalent (visiotest)**

Vision satisfactory with corrective glasses

Without corrective glasses

- **ISHIHARA Atlas**

Vision of colours satisfactory: YES NO

Made at..... , Date.....

Stamp or Name and place of doctor
Who realised examinations

.....

Signature of the doctor



7. SIGNATURES

7.1 Candidate engagement

I, undersigned (Name and Surname):

- Certify that information included in this file is true and agree that WIT, through the intermediary of its delegates, check the truth.
- Accept before handing final decision related to my candidature.
- Undertake to respect WIT certification rules as well as professional code of ethics and professional rules of art.

(See annex 2 " professional code of ethics" to be undersigned by the candidate)

Made at:Date:

Signature: (with before "Read and approved")

7.2 Employer attestation

I, undersigned (Name and function):

Acting in the Name of Company (Body or Authority) certifies the true of present file information.

Made at:Date:

Signature and Company stamp:



Annex 1

Organisation Chart

Annex 2

Requirements for access to certification level 1 and 2 (to be kept by the candidate)

1 Minimal requirements for training and experience

1.1 Training

To be eligible for certification, the candidate shall prove that he fulfilled assiduously a training course in test method at the level for which he is candidate to certification (see table 1).

Table 1 - Minimum-training requirements level 1 and 2

Method	level 1 h	level 2 Total, h (inclusive of Level 1)	level 3 Total, h (inclusive of Level 2)
PT	16	40	60
MT	16	40	60
RT	40	120	160
UT	40	120	160
VT	16	40	64

NOTE 1: Training hours include both practical and theory courses.

NOTE 2: Direct access to level 2 requires the total hours shown for level 1 and level 2.

NOTE 3: In case of national regulations concerning the duration of a week of work, the 40 hours are equivalent to the legal duration of a week of work.

NOTE 4: A reduction of up to 50% in the total required number or training hours may be accepted by the Certification Body for candidates who have graduated from technical college or university, or have completed at least two years of engineering or science study at college or university

1.2 Experience

The minimum requirements for experience to be gained prior to certification shall be as specified in table 2. Documentary evidence of experience shall be verified by the employer and provided to the NDTC.

Table 2 – Minimum requirement for experience level 1 and 2 (EN473)

NDT Method	Experience (months) <small>(1) (3)</small>		
	level 1	level 2 ⁽²⁾	level 3
PT	1	4	16
MT	1	4	16
RT	3	12	30
UT	3	12	30
VT	1	4	16

NOTE 1: Work experience in month is based on a nominal 40 h/week (175 h/month) or the legal week of work. Any individual working in excess of 40 h/week, may be credited with experience based on the total hours, but shall be required to produce documentary evidence of this experience.

NOTE 2: For level 2 certification, the intent of this International Standard is that work experience consists of NDT work time as an individual certified to level 1. If the individual is being qualified directly to level 2, with no time at level 1, the experience shall consist of the sum of the times required for level 1 and level 2

NOTE 3: Credit for work experience may be gained simultaneously in two or more of the NDT methods covered by this International Standard, with the reduction of total required experience as follows:

- a) two testing methods – reduction of total required time by 25 %.
- b) three testing methods – reduction of total required time by 33 %.
- c) four or more testing methods – reduction of total required time by 50 %.

In all cases where a reduction is sought the candidate shall be required to show that, for each of the testing methods for which he seeks certification, he has at least half of the time required in this table.

2. Type and duration of examination

2.1 Duration of examination

Two days maximum, each examination including 3 tests:

General examination, specific examination, practical examination.

Order of test is specified by Responsible of Examination Centre. Candidates shall have normal material : paper, pencil, compasses as well as following calculation facilities: pocket calculator or slide rule, trigonometric tables excluding any manual or formulary with exception of abacus for calculation of exposure time (RT).

If the candidate wishes, he can come with his own UT set. He is then responsible of good functioning of this equipment during the whole examination.

2.2 Type of tests

General examination:

The general examination shall include only questions selected from the NDTC collection of basic knowledge questions valid at the date of examination. The candidate shall be required, as a minimum, to give answers to the number of the multiple-choice questions shown in Table 3.

Table 3 - Required number of general questions

NDT method	Number of questions	
	Level 1	Level 2
MT	30	30
PT	30	30
RT	40	40
UT	40	40
VT	30	30

The time allowed to the candidates for completion of each examination shall be based upon the number and difficulty of the questions. The average time allowed shall be no less than one and no more than two minutes per multiple choice question.

Examination on the radiographic test method includes both X and gamma-radiation.

Specific examination:

The specific examination shall include only questions selected from the NDTC collection of specific questions related to the industrial sector(s) concerned.

The time allowed to the candidates for completion of each examination shall be based upon the number and difficulty of the questions. The average time allowed for multiple choice questions shall be no longer than three minutes per question. The average time allowed written questions shall be determined by the NDTC.

During the specific examination, the candidates shall be required to give answers to at least the number of questions specific in Table 4, including questions involving calculations, written procedures and questions on codes, standard and specifications.

Table 4 - Required number of specific questions for level 1 and 2

NDT method	Number of questions	
	Level 1	Level 2
PT	20	20
MT	20	20
RT	20	20
UT	20	20
VT	20	20

If the specific examination covers two or more industrial sectors, the minimum number of questions shall be at least 30, evenly spread between the sectors concerned.

Practical examination:

The aim of this part is to verify competence of candidate for:

- perform setting of equipment.
- functioning equipment.
- perform test on pieces in concerned sector.
- report and analyze information at required level following written instructions for level 1 or specification for level 2.

For level 2, candidate shall also demonstrate he is able to write written instructions for, level 1.

Specimen used for practical examination are chosen in representative specimen approved by sectorial committee.

Any test specimen shall have a data sheet reporting test conditions, indications, which can be reported, as well as these considered as being necessarily detected and reported by the candidate. If not, marking of the test is zero for the specimen. Each specimen has at least one indication.

For Rt examination, candidate level 2 shall perform test on two specimen (one with X ray, another one with γ ray). More he shall interpret 5 films furnished by the centre.

For another methods, candidate shall test three specimens.



Examiner can have oral questions during practical examination for be sure of good understanding of instructions and good base of candidate actions. These questions and their answers are nor written reported.

3. MARKING

Final marking is calculated according to following formulae: $N = 0,25 n_g + 0,25 n_s + 0,50 n_p$

Where:

n_g is the mark of general examination.

n_s is the mark of specific examination.

n_p is the mark of practical examination.

To get certification, candidate shall have at least a mark oh 70/100 in each part of examination and a final mark of at least 80/100.

4. MATERIAL CONDITIONS

4.1 RESULTS

Board of examiners is issuing results within 30 days after examination. They are transmitted to the candidate through their employer.

Certification card is transmitted after approval and signature of NDT Committee.

4.2 REEXAMINATION

Candidate rejected following action against code of ethics, shall wait at least 12 months before a new examination.

Candidate rejected for a mark bellow the requirement in one or two parts can present only one time a new exam when this exam is at least one month after first exam and not later than 12 months after this first exam.

- a) Candidate being rejected after this new exam shall present a new application form and have a new certification examination.