



Rules for the Certification of Non-Destructive Test Operators according to ISO 9712:2021 standard

In force as from 15 July 2023

RINA
Via Corsica 12
16128 Genova - Italy

tel +39 010 53851
fax +39 010 5351000
web site: www.rina.org

Technical Rules

CONTENTS

CHAPTER 1 - GENERAL.....	3
CHAPTER 2 - DEFINITIONS	4
CHAPTER 3 - REFERENCE DOCUMENTS	4
CHAPTER 4 - EXAMINATION ADMISSION REQUIREMENTS.....	4
4.1 – General	4
4.2 – Minimum training requirements.....	4
4.3 – NDT working experience	5
4.4 – Visual acuity.....	6
4.5 – Limitations and special applications	6
4.6 – Application for certification.....	8
CHAPTER 5 - ASSESSMENT AND CERTIFICATION PROCESS.....	8
5.1 – Level 1 and 2 examinations	8
5.2 – Level 3 examination.....	10
5.3 Special applications.....	11
5.4 – Repetition of the examination	11
CHAPTER 6 – ISSUE OF CERTIFICATES.....	11
CHAPTER 7 - CERTIFICATION VALIDITY	12
CHAPTER 8 – CERTIFICATION MAINTENANCE	12
8.1 - Renewal.....	12
8.2 - Certification extension	13
8.3 – Change of employer on a certificate issued by RINA	13
CHAPTER 9 - RECERTIFICATION.....	13
CHAPTER 10 – TRANSFER OF CERTIFICATES ISSUED BY OTHER CBs	14
CHAPTER 11 – SUSPENSION, REINSTATEMENT, REDUCTION AND REVOCATION OF A CERTIFICATE.....	14
CHAPTER 12 – ENROLLMENT IN THE REGISTER OF CERTIFIED PERSONS	14
CHAPTER 13 – USE OF CERTIFICATION LOGOTYPES.....	14
CHAPTER 14 – MANAGEMENT OF CLAIMS	14
CHAPTER 15 – CONTRACTUAL TERMS AND CONDITIONS.....	14

CHAPTER 1 - GENERAL

These Rules define any supplementary and/or alternative procedures, applied by RINA for certification of NDT personnel according to the ISO 9712:2021 std, in relation to the requirements of the general Rules for the certification of persons RC/C 85.

The paragraphs of these Rules refer to (and keep the same numbering of) the corresponding paragraphs of the general Rules for the certification of persons which were subject to any changes and/or integrations.

The requirements set forth in this document refer to certification of personnel concerned with non-destructive tests for levels 1, 2 and 3 for the methods listed here below:

NDT Method	Abbreviated term
Acoustic emission testing	AT
Eddy current testing	ET
Leak testing	LT
Magnetic testing	MT
Penetrant testing	PT
Radiographic testing	RT
Strain gauge testing	ST
Ultrasonic testing	UT
Visual testing	VT

The product sectors indicated below are applicable only to the industrial sectors "m" and "s" for levels 1 and 2.

PRODUCT SECTORS	METALLIC MATERIALS	Castings (c) – ferrous and non-ferrous materials
		Forgings (f) – all types of forgings: ferrous and non-ferrous materials
		Welds (w) – all types of welds, including soldering, for ferrous and non-ferrous materials
		Tubes and pipes (t) - seamless, welded, ferrous and non-ferrous materials, including flat products for the manufacturing of welded pipes
		Wrought products (wp) – except forgings (i.e. plates, bar, rods)
INDUSTRIAL SECTORS	Manufacturing (m)	
	Pre- and in-service testing (s) which includes manufacturing	

For the following methods/subjects/sectors, the relevant specific requirements have been defined in the annexes listed below:

Infrared thermography	TT	Annex 1
Guided waves	GW	Annex 2
Magnetic rope testing	MRT	Annex 3
Certification of NDT operators in the railway maintenance sector		Annex 4
Dimensional check	DIM	Annex 5
Airborne Ultrasound	UT AIR	Annex 6
Acoustics and vibrations	AV	Annex 7
Alternated Current Field Measurement	ACFM	Annex 8
Certification of NDT operators working on composite materials		Annex 9
Metallographic replication	RM	Annex 10

CHAPTER 2 - DEFINITIONS

The applicable definitions are found in the following reference documents:

- para. 2 of document RC/C 85
- para. 3 of the ISO 9712:2021 standard; the term "referee" refers to a level 2 or 3 certified person in the applicable method

CHAPTER 3 - REFERENCE DOCUMENTS

In addition to the provisions of Chapter 3 of document RC/C 85, the following documents apply:

- ISO 9712:2021 standard
- ACCREDIA's technical circular DC No. 38/2022 – Rules for transition to UNI EN ISO 9712:2022 for accredited CABs in conformity with ISO/IEC 17024

If requested by the candidate, RINA will have the right to perform the same personnel qualification activities in conformity with other national or international recognized standards.

CHAPTER 4 - EXAMINATION ADMISSION REQUIREMENTS

As per these Rules, RINA is responsible for the entire assessment and certification process for personnel of level 1, 2 and 3 for the above methods, sectors and standards.

The candidate that wishes to obtain certification must fill in the form provided by RINA and attach all requested evidences.

4.1 – General

Before being admitted to the examination, the candidate must demonstrate to meet the minimum requirements in relation to training, industrial experience in the NDT sector and visual acuity as specified below.

4.2 – Minimum training requirements

The candidate must provide documentary evidences that he/she has attended a theoretical and practical training course in accordance with the ISO/TS 25107:2019 standard for the requested method and level, provided by level 3 certified personnel in accordance with the ISO:9712 standard in the specific method.

The minimum training duration must comply with the following table; the number of training days does not include the examination time.

For all levels, theoretical training may be delivered in a face-to-face instructor-led format, distance learning format and, up to 50% of the total theoretical training in a self-paced format, attested by a declaration containing details of the training material used (reference books,....).

Practical training, the duration of which cannot be less than 50%+/- 10% of the total expected time, shall be delivered by a face-to-face instructor-led format only.

The training provided shall remain valid for a maximum period of ten years from the date of completion.

For Level 3, in relation to self-paced format training, the preparation for qualification can be completed in different ways dependent on the scientific and technical background of the candidate, including attendance at other training courses, conferences or seminars, studying books, periodicals and other specialized printed or electronic materials.

NDT method	Level 1 (days)	Level 2 (days)	Level 3 (days)
AT	5	8	5
ET	5	6	6
LT	5	9	6
MT	3	2	4
PT	3	2	3
ST	2	3	2
TT	5	6	5
RT	5	10	5
UT	8	10	5
VT	3	2	3

Note 1: For RT, training days does not include radiation safety training.
 Note 2: One day duration is at least 7 hours, which can be achieved on a single day or by accumulating hours; the maximum allowable hours in one day is 12; experience in days is achieved by dividing the total accumulated hours by 7.

Direct access to level 2 requires the sum of the total time recommended for levels 1 and 2; direct access to level 3 requires the sum of the total time recommended for levels 1, 2 and 3.

A reduction up to 50% of the total training hours can be accepted by RINA:

- for candidates who attended training courses in other methods of the sector, dealing with all those general issues about mathematics, physics, chemistry, and materials
- for candidates with a degree in technical-scientific subjects obtained by attending a technical institute or university, or who have attended at least two years of study in engineering or sciences in a college or university (or equivalent training)
- for candidates who require a level 1 or 2 certification with limited application

4.3 – NDT working experience

Before being admitted to the certification examination, the candidate must provide documentary evidence of his/her working experience as specified in the table, confirmed by his/her employer or referee if self-employed worker, in the NDT method for which certification is requested.

If a part of this experience, quantified in a maximum of 2/3 of that foreseen in the table, was acquired after passing the examination, the examination result will remain valid for the total time required for the interested methods, for a maximum period of five years.

NDT method	Experience Days *					
	Level 1	Level 2		Level 3		
		Prev. cert. level 1	Direct access	Prev. cert. level 2	Prev. cert. level 2 with 3-year univ. degree	Direct access with 3-year university degree
AT, ET, LT, RT, UT, TT	45	135	180	450	270	540
MT, PT, ST, VT	15	45	60	240	180	360

Note 1: One day duration is at least 7 hours, which can be achieved on a single day or by accumulating hours; the maximum allowable hours in one day is 12; experience in days is achieved by dividing the total accumulated hours by 7.
 Note 2: for level 3, knowledge may be acquired through a variety of combinations of education, training and experience.

A certified Level 1, 2 or 3 individual adding an additional method may be permitted a reduction of required experience of 25 % for that additional method.

A certified Level 1 or 2 individual changing sector, adding another sector or technique for the same NDT method shall be required to gain additional experience of at least 25% of the experience required in p. 4.3.1 above; and this shall never be less than 15 days in duration.

When the scope of certification sought is limited in application (i.e. thickness measurement, interpretation of results,...), experience duration may be reduced by up to 50% but shall not be less than 15 days.

Industrial experience duration may be reduced by up to 50% in the presence of a structured experience program (SEP), made available and approved by RINA.

One day of attendance at the SEP may be equivalent to a maximum of five days industrial experience.

The SEP shall include all typical tasks of the level, method and sector concerned, considering that the additional intent of the SEP is to gain specific product and technique knowledge.

4.4 – Visual acuity

The candidate shall provide documentary evidence issued within the previous calendar year, i.e. a certificate issued by a doctor, an ophthalmologist or an authorized optometrist, of compliance with the following requirements:

- a) near vision acuity shall permit reading a minimum of Jaeger number 1 or Times New Roman 4.5 or equivalent letters at not less than 30 cm with one or both eyes, either corrected or uncorrected;
- b) normal colour vision and/or grey scale perception verified, for example, by the Ishihara test.

The colour vision test shall either confirm that the individual has acceptable colour vision without restriction or shall state any limitation(s) on colour perception; in this case the employer shall confirm that this condition results in any limitation(s) to method or application specific techniques.

4.5 – Limitations and special applications

4.5.1 – Limitations and specific applications of the UT method

4.5.1.1 - UT-TOFD (UT-Time of Flight) and UT-PA (UT-Phased Array)

Level 1 and 2 personnel can obtain an extension of their certification to UT-TOFD and UT-PA specific applications only if they are UT certified with industrial sectors as per p. 4.5; as an alternative, they can request the specific applications together with the UT certification.

Level 3 personnel can obtain an extension of their certification to UT-TOFD and UT-PA specific applications only in the presence of level 2 certification for these specific applications.

With regard to certificates with sector limitation, the training hours shall be integrated as per RINA training programmes before requesting extension to the UT-TOFD and UT-PA methods.

Minimum training requirements:

Level	Phased Array h	TOFD h	Phased Array + TOFD h
1	35	35	70
2	35	35	70

For the PA training programme, refer to Annex B2 ANSFISA Guidelines rev. 02.

Notes:

1 – personnel holding level 1 in the UT-PA or UT-TOFD techniques, to achieve extension to level 2, shall cover the difference of hours between level 1 and 2 for each single technique.

2 – specific qualifications are envisaged for the interpretation of test results, such as UT-TOFD Ultrasonic Interpretation (UT-INTO) and UT-Phased Array Ultrasonic Interpretation (UT-INPA); for UT-INTO and UT-INPA operators, training hours are reduced by 50%.

4.5.1.2 – UT-TH (UT-Thickness measurement) and UT-AUTO (UT-Automated) limitations

Level 1 and 2 personnel can obtain certification limited to thickness measurement or automated ultrasonic tests; in these cases the training duration may be reduced by up to 50% like the experience duration and shall never be less than 15 days.

4.5.2 – Underwater applications

For the UT, VT, MT and ACFM methods, levels 1 and 2, it is possible to obtain an extension of certification to underwater applications; these are the minimum requirements:

- registration book, issued by the Harbor Office (as TDO or Diver)
or, as an alternative
- Professional Commercial Diver qualification certificate/TDO (Technical Diving Operator) professional qualification and physical fitness certificate for diving

4.5.3 – Checks by remotely-operated aircraft

For the VT and TT methods it is possible to obtain an extension of certification to the conduction of checks by remotely-operated aircraft (ROA), usually known as Drones.

4.5.4 – Radiographic testing techniques

Radiographic testing technique	Technique with limited scope	Abbreviated term	Training requirements (hours) Level 1	Training requirements (hours) Level 2	Training requirements (hours) Level 3
Film & Digital		RT - FD	56	70	56
Film		RT - F	35	70	35
Digital		RT- D	35	70	35
Computed tomography		RT – CT	28	35	35
Radioscopy		RT – S	28	28	35
	RT Film interpretation	RT –FI	N/A	56	N/A
	RT digital image interpretation	RT – DI	N/A	56	
	RT film and digital image interpretation	RT – FDI	N/A	63	
Extension from RT-F to RT-D			21	35	21

Any requests for extension to additional radiographic techniques shall require a training duration equal to 50% of the hours specified in the above table.

4.5.5 – Leak Testing techniques

Technique with limited scope	Abbreviated term	Training requirements (hours) Level 1	Training requirements (hours) Level 2	Training requirements (hours) Level 3
LT pressure method	LT-P	21	28	N/A
LT tracer gas method	LT-TG	14	35	N/A

4.5.6 – Magnetic testing techniques

Technique with limited scope	Abbreviated term	Training requirements (hours) Level 1	Training requirements (hours) Level 2	Training requirements (hours) Level 3
Flux leakage	MT-FL	7	14	N/A

4.6 – Application for certification

After receiving the application for certification, RINA will prepare a service proposal that will be sent to the applicant candidate.

Upon receiving the acceptance of the above service proposal, RINA will send a written confirmation to the candidate for the acceptance of the application.

The candidate's application and relevant acceptance by RINA are the formal contract regulating RINA activities carried out in accordance with these Rules.

RINA reserves the right to examine, at its discretion, other documents foreseen by the reference Standards as an integration and support to the information received from the applicant.

RINA will previously inform the candidate about the date, place and composition of the examination body; the candidate may object to the appointment of the technicians making up the examination body, justifying the reasons.

CHAPTER 5 - ASSESSMENT AND CERTIFICATION PROCESS

Qualification examinations are performed by RINA at its own Examination Centres or at the Applicant Organizations' premises.

During the exam, candidates may only use aids (codes, standards, textbooks, electronic devices,...) that may be made available by RINA; it is possible to use one's own equipment, adequately verified, for the execution of the practical exam, upon request.

5.1 – Level 1 and 2 examinations

The qualification examination consists of:

- a written test divided into a general section, consisting of a minimum of 40 multiple-choice questions, and a specific section, consisting of a minimum of 20 multiple-choice questions (if two or more sectors are requested, the minimum number of questions shall be at least 30);
- drafting of an operating instruction (only for levels 2);
- practical tests on at least 2 specimens, duly identified and recorded in the list of test specimens of RINA examination centres, selected among the most representative product sectors in the requested industrial sector.

The calculation of the number of specimens to examine is based on the following requirements:

No. of requested product sectors	No. of requested industrial sectors	Minimum number of specimens to examine
1	1	2
1	2	2
2	1	2
2	2	2
>3	1	3
>3	>1	3

Candidates to RT method level 1 and 2:

- shall radiograph at least two specimens;
- if already certified for level 1, shall radiograph at least one specimen;

In addition to taking radiographs, level 2 candidates shall interpret a set of at least 10 film images or 10 digital radiographic images; this set shall be considered as one specimen.

The practical test for candidates to LT method Level 1 and 2 shall include both the pressure method and the tracer gas method and at least one specimen for each method.

Before the examination test starts, RINA examiner will proceed to the identification of the candidates by a valid personal identity document.

The general and specific examination test shall include questions chosen by RINA from its own collection of questions; any questions related to the specific written test shall be chosen depending on methods and sectors requested by the candidates.

The maximum time allowed to the candidates is equal to 2 minutes for each general question and 3 minutes for each specific question.

Candidates to level 1 shall apply the method proposed by the examiner; candidates to level 2 shall select the most suitable method.

The maximum time allowed to candidates for the practical examination is 2 hours for level 1 and 3 hours for level 2.

The maximum time allowed to level 2 candidates for drawing up the operating instruction for level 1 is 2 hours.

Tests (general, specific and practical, including the operating instruction, if applicable) shall be graded separately; the examination is deemed to be passed if a minimum score of 70% is obtained for each single test.

With regard to practical examination, a minimum score of 70% must be achieved for each tested specimen, assigned according to the following table:

Subject		Weighting factor %	
		Level 1	Level 2
1	Knowledge of NDT equipment and NDT media		
1a	system and/or media knowledge and control	10	5
1b	validity of verifications and/or media	10	5
Total 1		20	10
2	Application of NDT method		
2a	preparation of the specimen (i.e. surface conditions), including the visual examination	5	2
2b	for Level 2, selection of NDT technique and determination of operating conditions	n.a.	10
2c	setting up of the NDT apparatus and performance of the test	25	12
2d	post test procedures (i.e. demagnetization, cleaning, preservation)	5	2
Total 2		35	26
3	Detection of discontinuities and reporting		
3a	detection of mandatory reportable indications	20	18
3b	characterization of indications (if applicable with respect to the test method: type, position, orientation, apparent dimensions, etc.)	15	18
3c	Level 2 evaluation against code, standard, specification or procedure criteria	n.a.	18
3d	production of the test report	10	10
Total 3		45	64
Total 1 + 2 + 3		100	100

The NDT instruction, prepared by candidate to level 2, is graded according to the following table:

Subject	%
1 foreword (scope, reference documents)	5
2 personnel	5
3 equipment/media to be used	5
4 product (description or drawing, including area of interest and purpose of the test)	10
5 test conditions, including preparation for testing	10
6 detailed instructions for application of the test, including settings	40
7 recording and classifying of the test results	20
8 reporting the results	5
Total	100

If a candidate requests more sectors in the same method he/she shall attend the specific examination and the practical examination for the requested sector, including the NDT instruction for level 2; RINA will re-issue the certificate adding the new sectors.

5.2 – Level 3 examination

The examination consists of:

- a basic test;
- a method test.

Before the examination starts, RINA examiner will proceed to the identification of the candidates by their valid identity document.

Access to level 3 involves, in the absence of level 2 certification, passing the level 2 practical exam in the relevant sector and method, excluding the drafting of the operating instruction; likewise, a candidate in possession of level 2 certification limited to one or more specific sectors will have to take a practical exam based on the control of a maximum of two samples, chosen by RINA on the basis of those examined in the practical test taken to obtain the level certification 2.

The basic and method written examination must include questions selected by RINA from its own collection of questions (see table 1 and 2); any questions relating to the method written examination must be selected depending on the industrial sector where candidates operate and on the applicable standards.

Table 1 – Minimum required number of basic examination questions

Part	Subject	Number of questions
A	Technical knowledge in materials science and process technology	25
B	Knowledge of RINA qualification and certification system based on this international standard. This may be an open book examination.	10
C	General knowledge of at least four methods as required for level 2 and chosen by the candidate from methods specified in paragraph 1. These four methods shall include at least one volumetric method (UT or RT).	15 for each test method (total 60)

After passing the basic examination, the candidate can attend the method examination. The basic examination is valid for 5 years. A candidate holding a valid level 3 certificate is exempt from the need to retake the basic examination.

Table 2 – Minimum required number of main-method examination questions

Part	Subject	Number of questions
D	Level 3 knowledge relating to the applied test method	30
E	Application of the NDT method in the sector concerned, including the applicable codes, standards, specifications and procedures.	20

	This may be an open book examination in relation to codes, standards, specifications and procedures.	
F	Drafting of one or more NDT procedures in the relevant sector. Codes, standards, specifications and other applicable procedures shall be available to the candidate.	-

The maximum time allowed to level 3 candidates is 3 minutes for each question for the basic examination and 4 hours for the drafting of each procedure.

The basic (A, B, C) and method (D, E, F) examination elements are graded separately; the examination is deemed to be passed if a minimum score of 70% is achieved for each examination elements; as far examination element F is concerned, the grade is assigned considering Table D.3 of the ISO 9712:2021 standard.

5.3 Special applications

5.3.1 – Level 1 and 2

The specific examination element as per p. 4.5 above shall be a minimum of 20 multiple choice questions (if two or more sectors are requested, the minimum number of questions shall be at least 30); furthermore, a specific operating instruction shall be prepared (only for level 2) and at least two representative specimens of the requested sector shall be examined.

For the UT, VT, MT and ACFM methods, levels 1 and 2, it is possible to obtain an extension of certification to underwater applications attending the specific tests here below:

- at least one underwater practical test, carried out at a recognized Examination Centre
- drafting of an Operating Instruction dedicated to the underwater application of the specific method

For special applications with limitations in scan reading/image interpretation, the number of scans/images will be concerned with the requested industrial sectors, as shown in the following table:

Scan reading practical examination for special applications RT-FI, RT-D, RT-FDI, UT-INTO, UT-INPA	
CND Method	Number of scans/images
RT-FI, RT-D, RT-FDI	5
UT-INTO	3
UT-INPA	3
UT-INTO + UT-INPA	3

5.3.2 – Level 3

For special applications as per p. 4.5 above, the candidate shall attend the method examination elements E and F.

In the absence of level 2 certification, access to level 3 entails completion of level 2 practical examination in the requested sector and method, without the need of drafting the operating instruction.

5.4 – Repetition of the examination

A candidate who fails to obtain the minimum score required for any part of the examination may retake the specific test no more than twice, after a minimum time of one month and no later than two years, after completing a training period that is deemed to be acceptable by RINA.

CHAPTER 6 – ISSUE OF CERTIFICATES

Evidence of passing the exam and meeting any requirements not fully met prior to admission to the exam, such as proof of having completed the required period of work experience, is submitted to RINA for the independent verification and decision about the issue of a certificate; if the check is positive,

RINA shall issue a specific certificate, for each examined candidate, with a validity of 5 years, that attests that the candidate has successfully passed the examination.

The certificate issued by RINA shall contain at least the following information:

- RINA logotype;
- name, place and date of birth of the certified person;
- references to the standard, NDT method, certification level, industrial and product sector/s (with any limitations or special applications);
- validity start date;
- current issue date;
- expiry date;
- RINA representative's signature;
- reference to www.rina.org website.

CHAPTER 7 - CERTIFICATION VALIDITY

The period of validity of the certificate issued by RINA is five years.

The validity of the issued certificate is subject to:

- the correct professional behaviour of the qualified personnel;
- maintenance of the requirements as per p. 4.4, which are checked on an annual basis;

CHAPTER 8 – CERTIFICATION MAINTENANCE

8.1 - Renewal

The validity of an issued qualification certificate can be renewed, upon a specific request by the candidate, for another five years period, calculated on the basis of the expiry date of the initial certification, within the scope of the initial qualification, provided that the conditions described in paragraphs 7.1 and 7.2 are present and the candidate provides documentary evidence of:

- satisfactory fulfilling the vision requirements, within the previous 12 months;
- passing a specific test attesting to have sufficient colour vision and/or grey scale perception in the previous 60 months;
- continued satisfactory work activity, without significant interruption, in the method and sector covered by certification (this declaration shall be confirmed by the employer or referee if self-employed); should this requirement not be fulfilled, the candidate shall attend the practical test envisaged by the certification examination. In case of underwater applications it is also necessary to provide evidences of having carried out at least 1 underwater operation per year and a copy of the physical fitness certificate for diving;
- passing a practical test by examining 50% of the specimens required for first certification and drafting, only for levels 2, an operating instruction for levels 1

▪ OR

meeting the requirements of the structured credit system as per Table C1 of the ISO 9712:2021 standard with the achievement of a total of 100 points in the last 5 years; for level 1, a minimum of 75 of the 100 points required shall be obtained by evidences supporting the provisions of section A of table C1; for levels 2 and 3, a minimum of 50 of the 100 points required shall be obtained by evidences supporting the provisions of section A of table C1.

Candidates who do not meet the renewal requirements must comply with the provisions relating to recertification.

The application for renewal shall be submitted to RINA within the expiry date of the certificate, preferably at least 3 months in advance.

If the application for renewal is received by RINA after but not later than 12 months from the expiry date of the certificate, the new certificate will highlight the significant validity interruption (from the expiry date to the renewal date).

Any documentation submitted after this period and within a further 12 months will not be considered for the purpose of renewal and the candidate must undergo a recertification examination; after a further 12 months (24 months from the expiry date), the candidate must again pass the complete examination (general, specific and practical) for levels 1 and 2 and the main method examination for level 3. In the presence of a successful outcome of the above checks, RINA grants the renewal of validity by directly issuing a new qualification certificate for the reference standard.

8.2 - Certification extension

The certified personnel can ask RINA, at any time, for the extension of their own certificates to new sectors or new control techniques.

The applicable examination tests are described under chapter 5 above.

8.3 – Change of employer on a certificate issued by RINA

RINA can transfer an ISO 9712 certificate issued in the name of a person to an employer different from the one mentioned in the certificate, if it is authorized from the employer in writing.

CHAPTER 9 - RECERTIFICATION

Every ten years, the certification according to the UNI EN ISO 9712: 2012 standard must be re-certified to obtain a new validity period of five years, calculated on the basis of the expiry date of the initial certification, provided that the conditions under paragraphs 7.1 and 7.2 are fulfilled and the candidate demonstrates to:

- a) have passed the visual acuity examination within the previous twelve months
- b) have successfully passed a specific examination attesting to have sufficient colour vision and/or grey scale perception in the previous 60 months

Candidates shall also demonstrate:

- Level 1 and 2

- a) to have satisfactorily carried out their activity without significant interruptions in the method and sector for which they are certified (the declaration shall be confirmed by the employer or referee if the candidate is self-employed); for underwater applications it is also necessary to meet the requirements of p. 8.1 b) of these Rules and perform at least one underwater practical test at a recognized Examination Centre;
- b) to have passed the practical test recommended for first certification and to have drawn up, only for levels 2, an operating instruction for levels 1

If the practical test is not passed, two repetitions of the test are allowed after at least 7 days and within 12 months from the first attempt; if the admitted repeated tests are not passed, the validity of the certificate cannot be confirmed.

- Level 3

- a) to have satisfactorily carried out their activity without significant interruptions in the method for which they are certified (the declaration shall be confirmed by the employer or referee if the candidate is self-employed)
- b) to have provided RINA with the evidence supporting the practical competence (at least one control report on the method carried out every 6 months) or to have passed the level 2 practical examination for the relevant sector and method, except for the drafting of an operating instruction
- c) to have passed a written examination consisting of 20 multiple-choice questions on the application of the test method in the sector/s concerned (table 2, part E), which demonstrates an understanding of current NDT techniques, standards, codes or specifications, and applied

technology and 10 multiple-choice questions on the requirements set out by RINA for the certification scheme (table 1, part B) in accordance with the ISO 9712:2021 standard

OR

have met the requirements of the structured credit system as per Table C1 of the ISO 9712:2021 standard, with the achievement of a total of 100 points in the last 5 years; out of the required 100 points, 50 to 70 shall be obtained by evidences supporting the provisions of section A of table C1; it should be noted that in recertification the option of the structured credit system is applicable only for level 3.

If the candidate does not achieve a 70% minimum score, two repetitions of the tests are allowed within 12 months from the first attempt; if the admitted repeated tests are not passed, the validity of the certificate cannot be confirmed.

The application for recertification shall be submitted to RINA within the expiry date of the certificate, preferably at least 3 months in advance.

If the application for recertification is received by RINA after but not later than 12 months from the expiry date of the certificate, the new certificate will highlight the significant validity interruption (from the expiry date to the recertification date).

After 12 months from the expiry date of the certificate, the candidate will have to repeat the complete examination (general, specific and practical) for levels 1 and 2 and the main method examination (elements D, E and F) for level 3.

CHAPTER 10 – TRANSFER OF CERTIFICATES ISSUED BY OTHER CBs

The requirements set out in the General Rules for the Certification of Persons RC/C 85 apply, with the specification that the following documents must also be made available to RINA:

- documented evidence issued within the previous calendar year, i.e. a certificate issued by a doctor, an ophthalmologist or an authorized optometrist, of compliance with the following requirements:

- a) near vision acuity shall permit reading a minimum of Jaeger number 1 or Times New Roman 4.5 or equivalent letters at not less than 30 cm with one or both eyes, either corrected or uncorrected;
- b) normal colour vision and/or grey scale perception verified, for example, by the Ishihara test.

The colour vision test shall either confirm that the individual has acceptable colour vision without restriction or shall state any limitation(s) on colour perception; in this case the employer shall confirm that this condition results in any limitation(s) to method or application specific techniques.

- declaration, confirmed by the employer or referee if self-employed, of continued satisfactory work activity, without significant interruption, in the method and sector covered by certification.

CHAPTER 11 – SUSPENSION, REINSTATEMENT, REDUCTION AND REVOCATION OF A CERTIFICATE

The requirements set out in the General Rules for the Certification of Persons RC/C 85 apply.

CHAPTER 12 – ENROLLMENT IN THE REGISTER OF CERTIFIED PERSONS

The requirements set out in the General Rules for the Certification of Persons RC/C 85 apply.

CHAPTER 13 – USE OF CERTIFICATION LOGOTYPES

The requirements set out in the General Rules for the Certification of Persons RC/C 85 apply.

CHAPTER 14 – MANAGEMENT OF CLAIMS

The requirements set out in the General Rules for the Certification of Persons RC/C 85 apply.

CHAPTER 15 – CONTRACTUAL TERMS AND CONDITIONS

The requirements set out in the General Rules for the Certification of Persons RC/C 85 apply.

Publication: RC/C 14
English edition

RINA
Via Corsica 12
16128 Genova - Italy

tel +39 010 53851
fax +39 010 5351000
web site: www.rina.org

Technical Rules