

Rules for the Certification of Welding Inspectors

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GENERAL CONDITIONS

Definitions:

“Administration” means the Government of the State whose flag the Ship is entitled to fly or under whose authority the Ship is authorised to operate in the specific case.

“IACS” means the International Association of Classification Societies.

“Interested Party” means the party, other than the Society, having an interest in or responsibility for the Ship, product, plant or system subject to classification or certification (such as the owner of the Ship and his representatives, the ship builder, the engine builder or the supplier of parts to be tested) who requests the Services or on whose behalf the Services are requested.

“Owner” means the registered owner, the ship owner, the manager or any other party with the responsibility, legally or contractually, to keep the ship seaworthy or in service, having particular regard to the provisions relating to the maintenance of class laid down in Part A, Chapter 2 of the Rules for the Classification of Ships or in the corresponding rules indicated in the specific Rules.

“Rules” in these General Conditions means the documents below issued by the Society:

- (i) Rules for the Classification of Ships or other special units;
- (ii) Complementary Rules containing the requirements for product, plant, system and other certification or containing the requirements for the assignment of additional class notations;
- (iii) Rules for the application of statutory rules, containing the rules to perform the duties delegated by Administrations;
- (iv) Guides to carry out particular activities connected with Services;
- (v) Any other technical document, as for example rule variations or interpretations.

“Services” means the activities described in Article 1 below, rendered by the Society upon request made by or on behalf of the Interested Party.

“Ship” means ships, boats, craft and other special units, as for example offshore structures, floating units and underwater craft.

“Society” or “TASNEEF” means Tasneef and/or all the companies in the Tasneef Group which provide the Services.

“Surveyor” means technical staff acting on behalf of the Society in performing the Services.

Article 1

1.1. The purpose of the Society is, among others, the classification and certification of ships and the certification of their parts and components. In particular, the Society:

- (i) sets forth and develops Rules;
- (ii) publishes the Register of Ships;
- (iii) issues certificates, statements and reports based on its survey activities.

1.2. The Society also takes part in the implementation of national and international rules and standards as delegated by various Governments.

1.3. The Society carries out technical assistance activities on request and provides special services outside the scope of classification, which are regulated by these general conditions, unless expressly excluded in the particular contract.

Article 2

2.1. The Rules developed by the Society reflect the level of its technical knowledge at the time they are published. Therefore, the Society, although committed also through its research and development services to continuous updating of the Rules, does not guarantee the Rules meet state-of-the-art science and technology at the time of publication or that they meet the Society's or others' subsequent technical developments.

2.2. The Interested Party is required to know the Rules on the basis of which the Services are provided. With particular reference to Classification Services, special attention is to be given to the Rules concerning class suspension, withdrawal and reinstatement. In case of doubt or inaccuracy, the Interested Party is to promptly contact the Society for clarification.

The Rules for Classification of Ships are published on the Society's website: www.tasneef.ae.

2.3. The Society exercises due care and skill:

- (i) in the selection of its Surveyors
- (ii) in the performance of its Services, taking into account the level of its technical knowledge at the time the Services are performed.

2.4. Surveys conducted by the Society include, but are not limited to, visual inspection and non-destructive testing. Unless otherwise required, surveys are conducted through sampling techniques and do not consist of comprehensive verification or monitoring of the Ship or of the items subject to certification. The surveys and checks made by the Society on board ship do not necessarily require the constant and continuous presence of the Surveyor. The Society may also commission laboratory testing, underwater inspection and other checks carried out by and under the responsibility of qualified service suppliers. Survey practices and procedures are selected by the Society based on its experience and knowledge and according to generally accepted technical standards in the sector.

Article 3

3.1. The class assigned to a Ship, like the reports, statements, certificates or any other document or information issued by the Society, reflects the opinion of the Society concerning compliance, at the time the Service is provided, of the Ship or product subject to certification, with the applicable Rules (given the intended use and within the relevant time frame).

The Society is under no obligation to make statements or provide information about elements or facts which are not part of the specific scope of the Service requested by the Interested Party or on its behalf.

3.2. No report, statement, notation on a plan, review, Certificate of Classification, document or information issued or given as part of the Services provided by the Society shall have any legal effect or implication other than a representation that, on the basis of the checks made by the Society, the Ship, structure, materials, equipment, machinery or any other item covered by such document or information meet the Rules. Any such document is issued solely for the use of the Society, its committees and clients or other duly authorised bodies and for no other purpose. Therefore, the Society cannot be held liable for any act made or document issued by other parties on the basis of the statements or information given by the Society. The validity, application, meaning and interpretation of a Certificate of Classification, or any other document or information issued by the Society in connection with its Services, is governed by the Rules of the Society, which is the sole subject entitled to make such interpretation. Any disagreement on technical matters between the Interested Party and the Surveyor in the carrying out of his functions shall be raised in writing as soon as possible with the Society, which will settle any divergence of opinion or dispute.

3.3. The classification of a Ship, or the issuance of a certificate or other document connected with classification or certification and in general with the performance of Services by the Society shall have the validity conferred upon it by the Rules of the Society at the time of the assignment of class or issuance of the certificate; in no case shall it amount to a statement or warranty of seaworthiness,

structural integrity, quality or fitness for a particular purpose or service of any Ship, structure, material, equipment or machinery inspected or tested by the Society.

3.4. Any document issued by the Society in relation to its activities reflects the condition of the Ship or the subject of certification or other activity at the time of the check.

3.5. The Rules, surveys and activities performed by the Society, reports, certificates and other documents issued by the Society are in no way intended to replace the duties and responsibilities of other parties such as Governments, designers, ship builders, manufacturers, repairers, suppliers, contractors or sub-contractors, Owners, operators, charterers, underwriters, sellers or intended buyers of a Ship or other product or system surveyed.

These documents and activities do not relieve such parties from any fulfilment, warranty, responsibility, duty or obligation (also of a contractual nature) expressed or implied or in any case incumbent on them, nor do they confer on such parties any right, claim or cause of action against the Society. With particular regard to the duties of the ship Owner, the Services undertaken by the Society do not relieve the Owner of his duty to ensure proper maintenance of the Ship and ensure seaworthiness at all times. Likewise, the Rules, surveys performed, reports, certificates and other documents issued by the Society are intended neither to guarantee the buyers of the Ship, its components or any other surveyed or certified item, nor to relieve the seller of the duties arising out of the law or the contract, regarding the quality, commercial value or characteristics of the item which is the subject of transaction.

In no case, therefore, shall the Society assume the obligations incumbent upon the above-mentioned parties, even when it is consulted in connection with matters not covered by its Rules or other documents.

In consideration of the above, the Interested Party undertakes to relieve and hold harmless the Society from any third party claim, as well as from any liability in relation to the latter concerning the Services rendered.

Insofar as they are not expressly provided for in these General Conditions, the duties and responsibilities of the Owner and Interested Parties with respect to the services rendered by the Society are described in the Rules applicable to the specific Service rendered.

Article 4

4.1. Any request for the Society's Services shall be submitted in writing and signed by or on behalf of the Interested Party. Such a request will be considered irrevocable as soon as received by the Society and shall entail acceptance by the applicant of all relevant requirements of the Rules, including these General Conditions. Upon acceptance of the written request by the Society, a contract between the Society and the Interested Party is entered into, which is regulated by the present General Conditions.

4.2. In consideration of the Services rendered by the Society, the Interested Party and the person requesting the service shall be jointly liable for the payment of the relevant fees, even if the service is not concluded for any cause not pertaining to the Society. In the latter case, the Society shall not be held liable for non-fulfilment or partial fulfilment of the Services requested. In the event of late payment, interest at the legal current rate increased by 1.5% may be demanded.

4.3. The contract for the classification of a Ship or for other Services may be terminated and any certificates revoked at the request of one of the parties, subject to at least 30 days' notice to be given in writing. Failure to pay, even in part, the fees due for Services carried out by the Society will entitle the Society to immediately terminate the contract and suspend the Services.

For every termination of the contract, the fees for the activities performed until the time of the termination shall be owed to the Society as well as the expenses incurred in view of activities already programmed; this is without prejudice to the right to compensation due to the Society as a consequence of the termination.

With particular reference to Ship classification and certification, unless decided otherwise by the Society, termination of the contract implies that the assignment of class to a Ship is withheld or, if already assigned, that it is suspended or withdrawn; any statutory certificates issued by the Society will be withdrawn in those cases where provided for by agreements between the Society and the flag State.

Article 5

5.1. In providing the Services, as well as other correlated information or advice, the Society, its Surveyors, servants or agents operate with due diligence for the proper execution of the activity. However, considering the nature of the activities performed (see art. 2.4), it is not possible to guarantee absolute accuracy, correctness and completeness of any information or advice supplied. Express and implied warranties are specifically disclaimed.

Therefore, except as provided for in paragraph 5.2 below, and also in the case of activities carried out by delegation of Governments, neither the Society nor any of its Surveyors will be liable for any loss, damage or expense of whatever nature sustained by any person, in tort or in contract, derived from carrying out the Services.

5.2. Notwithstanding the provisions in paragraph 5.1 above, should any user of the Society's Services prove that he has suffered a loss or damage due to any negligent act or omission of the Society, its Surveyors, servants or agents, then the Society will pay compensation to such person for his proved loss, up to, but not exceeding, five times the amount of the fees charged for the specific services, information or opinions from which the loss or damage derives or, if no fee has been charged, a maximum of AED5,000 (Arab Emirates Dirhams Five Thousand only). Where the fees charged are related to a number of Services, the amount of the fees will be apportioned for the purpose of the calculation of the maximum compensation, by reference to the estimated time involved in the performance of the Service from which the damage or loss derives. Any liability for indirect or consequential loss, damage or expense is specifically excluded. In any case, irrespective of the amount of the fees charged, the maximum damages payable by the Society will not be more than AED5,000,000 (Arab Emirates Dirhams Five Millions only). Payment of compensation under this paragraph will not entail any admission of responsibility and/or liability by the Society and will be made without prejudice to the disclaimer clause contained in paragraph 5.1 above.

5.3. Any claim for loss or damage of whatever nature by virtue of the provisions set forth herein shall be made to the Society in writing, within the shorter of the following periods: (i) THREE (3) MONTHS from the date on which the Services were performed, or (ii) THREE (3) MONTHS from the date on which the damage was discovered. Failure to comply with the above deadline will constitute an absolute bar to the pursuit of such a claim against the Society.

Article 6

6.1. These General Conditions shall be governed by and construed in accordance with United Arab Emirates (UAE) law, and any dispute arising from or in connection with the Rules or with the Services of the Society, including any issues concerning responsibility, liability or limitations of liability of the Society, shall be determined in accordance with UAE law. The courts of the Dubai International Financial Centre (DIFC) shall have exclusive jurisdiction in relation to any claim or dispute which may arise out of or in connection with the Rules or with the Services of the Society.

6.2. However,

- (i) In cases where neither the claim nor any counterclaim exceeds the sum of AED300,000 (Arab Emirates Dirhams Three Hundred Thousand) the dispute shall be referred to the jurisdiction of the DIFC Small Claims Tribunal; and
- (ii) for disputes concerning non-payment of the fees and/or expenses due to the Society for services, the Society shall have the

right to submit any claim to the jurisdiction of the Courts of the place where the registered or operating office of the Interested Party or of the applicant who requested the Service is located.

In the case of actions taken against the Society by a third party before a public Court, the Society shall also have the right to summon the Interested Party or the subject who requested the Service before that Court, in order to be relieved and held harmless according to art. 3.5 above.

Article 7

7.1. All plans, specifications, documents and information provided by, issued by, or made known to the Society, in connection with the performance of its Services, will be treated as confidential and will not be made available to any other party other than the Owner without authorisation of the Interested Party, except as provided for or required by any applicable international, European or domestic legislation, Charter or other IACS resolutions, or order from a competent authority. Information about the status and validity of class and statutory certificates, including transfers, changes, suspensions, withdrawals of class, recommendations/conditions of class, operating conditions or restrictions issued against classed ships and other related information, as may be required, may be published on the website or released by other means, without the prior consent of the Interested Party.

Information about the status and validity of other certificates and statements may also be published on the website or released by other means, without the prior consent of the Interested Party.

7.2. Notwithstanding the general duty of confidentiality owed by the Society to its clients in clause 7.1 above, the Society's clients hereby accept that the Society may participate in the IACS Early Warning System which requires each Classification Society to provide other involved Classification Societies with relevant technical information on serious hull structural and engineering systems failures, as defined in the IACS Early Warning System (but not including any drawings relating to the ship which may be the specific property of another party), to enable such useful information to be shared and used to facilitate the proper working of the IACS Early Warning System. The Society will provide its clients with written details of such information sent to the involved Classification Societies.

7.3. In the event of transfer of class, addition of a second class or withdrawal from a double/dual class, the Interested Party undertakes to provide or to permit the Society to provide the other Classification Society with all building plans and drawings, certificates, documents and information relevant to the classed unit, including its history file, as the other Classification Society may require for the purpose of classification in compliance with the applicable legislation and relative IACS Procedure. It is the Owner's duty to ensure that, whenever required, the consent of the builder is obtained with regard to the provision of plans and drawings to the new Society, either by way of appropriate stipulation in the building contract or by other agreement.

In the event that the ownership of the ship, product or system subject to certification is transferred to a new subject, the latter shall have the right to access all pertinent drawings, specifications, documents or information issued by the Society or which has come to the knowledge of the Society while carrying out its Services, even if related to a period prior to transfer of ownership.

Article 8

8.1. Should any part of these General Conditions be declared invalid, this will not affect the validity of the remaining provisions.

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1 FIELD OF APPLICATION

The present rules apply for the issuance of the certificate of qualification of welding technicians named "Welding inspectors". They specify the procedures, knowledge and experience requirements and the examinations required for the issuance of the Certificate.

2 DEFINITION

"Welding Inspector" is a person responsible for performing, within the limits specified according to the qualification level, the welding-related inspection activities relevant to the level.

3 LEVELS AND RELEVANT COMPETENCE

3.1 General

Three levels of competence and qualification of welding inspectors are considered in the rules (1, 2 and 3), 3 being the highest level.

The inspector at level 3 or 2 shall have the competence and ability to perform the duties of the lower levels.

3.2 Duties relevant to level 1

To perform, according to written instructions or under direct guidance of a higher level welding inspector, the following activities or similar:

- verify the traceability of filler products and base materials and make the necessary transfer of identification marks
- verify that welders and welding operators are properly qualified as required
- verify that assembly and preparation for welding are in accordance with the drawings
- verify that approved welding procedures are used and properly applied
- carry out a visual examination and dimensional check of the welds
- prepare the reports relevant to the inspections and controls carried out.

3.3 Duties relevant to level 2

To perform and/or supervise, according to and within the limits of established procedures, the following activities or similar:

- verify and control the activities of level 1 inspectors
- verify the conformity of the base materials and filler products to the applicable standards
- verify the correct application of the inspection and control requirements of the applicable documents
- verify that welding and repair procedures are available
- witness welders and welding procedure qualification tests and judge the test results
- ensure that the conditions for storage, conditioning and handling of filler products are satisfactory
- verify that under fabrication all welding related quality control procedures are observed
- ensure that the required production test specimens are representative and judge the test results
- survey the repairs on welded assemblies, if any

- verify that any post weld heat treatment has been conducted in accordance with the specification requirements
- verify that the required tests and inspections of welded assemblies are adequately conducted and judge the results of the non-destructive tests
- ensure that all required welding related documents are maintained in the files
- prepare precise and complete inspection reports as required.

3.4 Duties relevant to level 3

To perform and/or supervise in general all welding inspection related matters and in particular the following activities or similar:

- verify, control and supervise the activities of level 1 and level 2 inspectors
- examine the drawings and fabrication documents of welded assemblies in order to judge their conformance to the applicable rules and contractual documents and take the necessary actions so that they are complied with
- prepare the inspection plans of the welded construction and related procedures
- evaluate, where applicable, the welding related quality assurance procedures
- evaluate and validate, as required, the reports relevant to NDT, inspections, controls and tests on welded work
- assess the factors that influence the formation of weld defects or other incidents during fabrication and take or propose the necessary measures for their avoidance
- prepare the reports of the inspections carried out
- record and file the results of the above-mentioned controls and tests.

4 REQUIREMENTS FOR CERTIFICATION

4.1 General

In order to be admitted to the examination to obtain the certificate as Welding Inspector the following minimum requirements of school education and technical experience in the welding field are to be met.

Evidence of the above requirements is to be provided at the time of the request for certification through a chronological report of the activities performed.

- a) Level 1
 - Middle school leaving certificate and 2 years of qualifying experience or
 - Primary school leaving certificate and 4 years of qualifying experience.
- b) Level 2
 - Secondary school leaving certificate in the technical-scientific field and 3 years of qualifying experience.
- c) Level 3
 - University degree in a technical-scientific subject and 4 years of qualifying experience or
 - Secondary school leaving certificate in the technical-scientific field and 7 years of qualifying experience.

5 EXAMINATION PROCEDURE FOR CERTIFICATION

The examination for certification consists of a written test and an oral examination.

In the written test the candidate shall answer a questionnaire of:

- 40 questions for level 1
- 60 questions for level 2
- 80 questions for level 3

relevant to the examination subjects listed in item 6 below.

The oral examination, to which the candidate is admitted if he answers correctly at least 80% of the questions, consists in the discussion, in addition to any subjects not fully satisfactory in the written test, of three subjects drawn by the candidate from among the examination subjects.

The oral examination is passed if the candidate obtains a mark of at least 6/10.

The assessment of the candidates is conducted by a Commission of Tasneef experts.

6 EXAMINATION SUBJECTS

The examination, written and oral, is on the following subjects and the candidate shall demonstrate adequate knowledge of them:

- a) Welding processes (shielded manual metal arc, submerged arc, MAG and MIG with bare and cored wires, TIG, electroslag, electrogas, resistance, gas and stud welding)
- b) Brazing processes
- c) Cutting processes (mechanical, carbon arc, plasma arc, oxy-fuel, laser, water jet)
- d) Properties of metals (basic metallurgy, types of steels, non-ferrous materials, tensile, bend, impact and hardness tests, particular toughness tests, fracture tests, metallographic tests, chemical tests)
- e) Heat treatments (preheat, stress relieving, tempering, normalizing, annealing, solution treatment) and relevant equipment, applications and controls
- f) Heat input
- g) Welding consumables (identification and composition according to UNI, EN and ISO standards, coatings, shielding gases, storage and drying)

- h) Welding processes and welder approvals (applicable rules, tests required and relevant requirements, welding procedure specifications, essential and non-essential variables, range of application, test recording, certification)
- i) Non destructive testing: visual, liquid penetrant, magnetic particle, radiographic, ultrasonic, Eddy current, leak testing (principles, equipment, characteristics, advantages and limitations, testing techniques, interpretation of results, reporting, safety precautions)
- j) Other test methods (dimensional, pressure test, destructive tests)
- k) Welding flaws (definition, types, causes and evaluation)
- l) Welded joints (joint types, edge preparation, terminology, symbols, drawings interpretation)
- m) Quality (basic principles of quality assurance and quality control, quality levels, record keeping)
- n) General (safety, distortion, repairs, codes, standards, specifications, welding inspector's duties).

7 EVALUATION OF THE EXAMINATION

For the subjects specified in item 6 above, taking into account the duties relevant to the 3 levels as per item 3, the following is required:

- thorough knowledge for certification to level 3,
- good knowledge for certification to level 2,
- basic general knowledge for certification to level 1.

8 CERTIFICATE AND RELEVANT VALIDITY

Upon satisfactory completion of the required examinations, a certificate of qualification as "Welding Inspector" is issued.

The certificate is valid for three years.

At the end of the three-year period, the certificate may be renewed for another three-year period subject to submission of adequate documentation providing evidence of activity in welding inspection for at least a two-year period in the three-year period of validity of the certificate.

9 RE-TESTS

If the examination is not satisfactory, the candidate will not be permitted to repeat the examination until three months have elapsed since the previous examination.