National Standards Authority of Ireland

IRISH STANDARD

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NON-DESTRUCTIVE TESTING OF STEEL TUBES - QUALIFICATION AND COMPETENCE OF LEVEL 1 AND 2 NON-DESTRUCTIVE TESTING PERSONNEL

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English version

Non-destructive testing of steel tubes - Qualification and competence of level 1 and 2 non-destructive testing personnel

Essais non destructifs des tubes en acier - Qualification et compétence du personnel en contrôle non destructif de niveaux 1 et 2

Zerstörungsfreie Prüfung von Stahlrohren - Qualifizierung und Kompetenz von Personal der Stufen 1 und 2 für die zerstörungsfreie Prüfung

This European Standard was approved by CEN on 29 March 2000.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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FOREWORD

This European Standard has been prepared by Technical Committee ECISS/TC 29 "Steel tubes and fittings for steel tubes", the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2000, and conflicting national standards shall be withdrawn at the latest by October 2000.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association. This European Standard is considered to be a supporting standard to those application and product standards which in themselves support an essential safety requirement of a New Approach Directive and which make reference to this European Standard.

This draft is based, with modifications, on ISO 11484: Seamless and welded steel tubes for pressure purposes - Qualification and certification of NDT personnel. This draft also takes account of training experience and qualification requirements given in EN 473:1993 “Qualification and certification of NDT Personnel - General principles”, where they apply.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 SCOPE

This European Standard establishes a system for qualification by the manufacturer of Level 1 and Level 2 NDT personnel engaged in non-destructive testing (NDT) of seamless and welded steel tubes and associated products, including flat products used in the manufacture of welded tubes, culminating in a declaration of competence by the manufacturer in respect of such personnel.

This standard specifies the pre-requisites training and experience, and qualification requirements for two levels of NDT personnel competence to execute specified tasks in the NDT of seamless and welded steel tubes, including flat products used in the manufacture of welded tubes

This standard permits both manufacturer and manufacturer approved external body training and qualification of Level 1 and Level 2 personnel, as parallel options in the qualification process .

As an alternative to the use of Levels 1, 2 or 3 personnel in the regular employ of the manufacturer, the manufacturer is permitted to engage on a contract basis such personnel from other organisations, provided that they meet the qualification requirements of this Standard.

This European Standard applies to, NDT personnel engaged in the NDT of seamless and welded tubes and flat products used in the manufacture of welded tubes, using any one or more of the following NDT methods:

a) Eddy Current (ET)

b) Flux Leakage (FT)

c) Liquid Penetrant (PT)

d) Magnetic Particle (MT)

e) Radiography (RT)

f) Ultrasonic (UT)

Individuals in the test area and having no involvement in the adjustment/set-up of the NDT equipment itself or the recording of test results, are not required to be qualified under the requirements of this standard.