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## **Steel products — Employer's qualification system for non- destructive testing (NDT) personnel**

*Produits en acier — Système de qualification, par l'employeur, du  
personnel pour essais non destructifs (END)*



Reference number  
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## Contents

|  | Page      |
|--|-----------|
| <b>Foreword</b> .....  | <b>iv</b> |
| <b>Introduction</b> .....  | <b>v</b>  |
| <b>1 Scope</b> .....   | <b>1</b>  |
| <b>2 Normative references</b> .....  | <b>1</b>  |
| <b>3 Terms and definitions</b> .....   | <b>1</b>  |
| <b>4 Responsibilities</b> .....  | <b>6</b>  |
| 4.1 General.....   | 6         |
| 4.2 Employer's qualifying body.....  | 7         |
| <b>5 Levels of qualification</b> .....                                       | <b>7</b>  |
| 5.1 General.....   | 7         |
| 5.2 NDT Level 1.....   | 7         |
| 5.3 NDT Level 2.....   | 7         |
| <b>6 Requirements and procedures for the qualification by employer</b> ..... | <b>8</b>  |
| <b>7 Qualification requirements</b> .....                                    | <b>8</b>  |
| 7.1 General.....   | 8         |
| 7.2 Training.....  | 8         |
| 7.3 Industrial NDT experience.....   | 9         |
| 7.4 Vision requirements — All levels.....                                    | 10        |
| <b>8 Qualification examination</b> .....                                     | <b>11</b> |
| 8.1 General.....   | 11        |
| 8.2 Examination content.....   | 11        |
| 8.2.1 General examination.....   | 11        |
| 8.2.2 Specific examination.....  | 11        |
| 8.2.3 Practical examination.....   | 11        |
| 8.3 Conduct of the examinations.....   | 12        |
| 8.4 Grading.....   | 12        |
| 8.5 Re-examination.....  | 13        |
| <b>9 Qualification</b> .....   | <b>13</b> |
| 9.1 General.....   | 13        |
| 9.2 Content of the qualification record.....                                 | 13        |
| 9.3 Digital qualification records.....                                       | 14        |
| 9.4 Validity.....  | 14        |
| 9.4.1 General.....   | 14        |
| 9.4.2 Re-validation.....   | 15        |
| 9.5 Renewal.....   | 15        |
| <b>10 Re-qualification</b> .....   | <b>15</b> |
| <b>11 Files</b> .....  | <b>15</b> |
| <b>12 Transition period for examiners</b> .....                              | <b>16</b> |
| <b>Annex A (normative) Weighting of practical examination</b> .....          | <b>17</b> |
| <b>Bibliography</b> .....  | <b>19</b> |

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 19, *Technical delivery conditions for steel tubes for pressure purposes*.

This third edition cancels and replaces the second edition (ISO 11484:2009), which has been technically revised.

The main changes compared to the previous edition are as follows:

- a) update of the candidate's vision requirements in [7.4](#);
- b) [Table 1](#) has been aligned with the provision of ISO 9712;
- c) updated minimum required number of questions for three types of examinations;
- d) standardized calculation for the composite grade N for Level 1 and Level 2;
- e) added [9.3](#) regarding digital qualification records;
- f) added [9.4.2](#) regarding re-validation.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

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## Introduction

This document concerns the qualification of personnel engaged in the non-destructive testing (NDT) of steel products.

It has been recognized that within the steel industry worldwide there is a predominance of semi-automated/automated NDT equipment in use by NDT personnel to establish product integrity, as opposed to principally manual methods adopted in other industrial sectors. As a result, this document permits the employer qualification, subject to certain restrictions.

In the preparation of this document, the requirements of ISO 9712 have been taken into account or adopted where they apply. However, it should be noted that the primary job-specific nature of the NDT tasks performed by NDT personnel on steel products is outside the scope of ISO 9712 job-specific training performed by the employer (see ISO 9712:2012, 3.13).

Thus, in the context of this document, the requirements of ISO 9712 should not be taken as basic or additional minimum requirements. This does not preclude the right of any individual to apply for and obtain qualification/certification in conformity with ISO 9712 as may be appropriate in another sector.

It is recognized that this document may be applied to steel product sectors and other specific product sectors, as appropriate. For product sectors, refer to ISO 9712:2012, A.2.