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Oförstörande provning – Guide for träningsorganisationer för OFP personal (ISO/TS 25108:2018)

Non-destructive testing – NDT personnel training organizations (ISO/TS 25108:2018)

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SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN ISO/TS 25108

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English Version

**Non-destructive testing - NDT personnel training
organizations (ISO/TS 25108:2018)**

Essais non destructifs - Organismes de formation du
personnel END (ISO/TS 25108:2018)

Zerstörungsfreie Prüfung - Richtlinien für
Ausbildungsstätten für Personal der zerstörungsfreien
Prüfung (ISO/TS 25108:2018)

This Technical Specification (CEN/TS) was approved by CEN on 20 October 2018 for provisional application.

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European foreword

This document (CEN ISO/TS 25108:2018) has been prepared by Technical Committee ISO/TC 135 "Non-destructive testing" in collaboration with Technical Committee CEN/TC 138 "Non-destructive testing" the secretariat of which is held by AFNOR.

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Introduction

Since the effectiveness of non-destructive testing (NDT) personnel is dependent on the technical knowledge acquired, a system to evaluate and document the appropriate theoretical and practical knowledge competencies of personnel is required.

To harmonize and maintain training and certification of NDT personnel, this document for NDT training organizations, together with NDT training syllabuses (ISO/TS 25107) have been developed with the intent to serve those involved in training to achieve a uniform level of training, training material and consequently competence of personnel.

Non-destructive testing — NDT personnel training organizations

1 Scope

This document gives requirements and recommendations for non-destructive testing (NDT) training organizations, with the intention of harmonizing and maintaining the general standard of training of NDT personnel for industrial needs.

It also establishes the minimum requirements for effective structured training of NDT personnel to ensure eligibility for qualification examinations leading to third-party certification according to recognized standards.

NOTE ISO/TS 25107 gives requirements and recommendations for NDT training syllabuses intended for training.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/TS 18173, *Non-destructive testing — General terms and definitions*

ISO 9712, *Non-destructive testing — Qualification and certification of NDT personnel*

ISO/TS 25107, *Non-destructive testing — NDT training syllabuses*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/TS 18173 and ISO 9712 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <http://www.electropedia.org/>

3.1

course note

educational material that is used in the classroom to support learning objectives

Note 1 to entry: Supplied and produced by the organization in either paper or electronic format (e.g. course manual or presentation, assignments, lab exercises, quizzes, etc.).

3.2

course outline

document agreed between the organization and students that includes a high-level overview of what will be taught

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3.3 curriculum

detailed plan of study prepared by the training organization which describes the aims, academic and practical content, learning outcomes and practical competencies to be gained, teaching, training and learning methods, assessment processes for the lessons and academic content taught and practical competencies trained in a specific course

3.4 distance education

any mode of delivery which occurs when students are learning independently at a location away from the premises of the training organization and the instructor provides only consultation to the student(s)

3.5 e-learning

learning method facilitated by information and communication technology

3.6 instructor

person performing training

3.7 training staff

personnel performing work affecting the NDT training quality

Note 1 to entry: Pertains to personnel other than the *instructor* (3.6) such as secretariat staff, assistant instructors, lab assistants, proctors.

4 General

A planned and systematic training process can make an important contribution in helping a training organization to improve its capabilities and to meet its objectives.

For selecting and implementing training to address gaps between required and existing competence requirements, training organizations shall monitor the following stages:

- a) defining training needs;
- b) designing and planning training;
- c) providing training;
- d) evaluating the outcome of training.

Training curriculum shall be developed to establish a clear understanding of the training objectives and the learning outcomes that define what the student will be able to achieve as a result of the training and to ensure that the basic knowledge required by students in continuing to fulfil their training needs are met.

This can include initial training in areas such as math, materials and processes and safety.

Training objectives shall be based on the expected competence as developed for the training needs in order to ensure the effective delivery of training. They should consider the following:

- a) training needs;
- b) students;
- c) training methods;
- d) outline of content;
- e) lesson plans;

- f) duration;
- g) resources required;
- h) delivery mode.

Criteria for evaluating the training outcomes and monitoring the training process should be defined.

5 Training organization management

The training organization shall appoint a person to be responsible for the overall management of the training centre and courses.

A person should also be appointed to be responsible for establishing a quality management system covering all aspects of the training services provided.

6 Quality management system

The training organization shall have a suitable quality management system which is documented and ensures the effective delivery of the training requirements.

EXAMPLE A documented quality management system based on ISO 9001 is an example of method of satisfying this requirements.

The system shall be controlled and periodically reviewed according to the stipulations (for example, ISO 9712, ISO/TS 25107) in the quality management system.

Where the competence of an individual is based on appropriate education, training, skills and experience, the training organization shall:

- determine the necessary competence for training staff performing work affecting the NDT training quality;
- provide training or take other actions to satisfy these needs; and
- evaluate the effectiveness of the action taken.

7 Induction of students

The training organization shall provide all information and conditions necessary for attendance in the training.

For example, a system of induction should ensure that, upon receipt of an application for training, students are provided with unambiguous information/instructions on the following:

- prior knowledge requirements (i.e. math, materials and processes, radiation safety);
- training fees, including all that is covered by the fees, and methods of payment (there should be no hidden extras requiring further payments, and a schedule of course fees should be published);
- dates and times for course attendance, and clear instructions concerning the location of the training venue;
- transport (including information on parking), accommodation and catering arrangements;
- NDT equipment required to be provided by the student, and/or details of the NDT equipment provided by the training organization;