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Welding coordination – Tasks and responsibilities (ISO 14731:2019)

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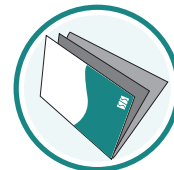
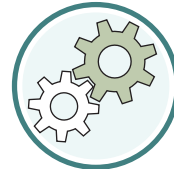
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Denna standard ersätter SS-EN ISO 14731:2006, utgåva 1 och SS-EN ISO 14731:2006, utgåva 1

The European Standard EN ISO 14731:2019 has the status of a Swedish Standard. This document contains the official version of EN ISO 14731:2019.

This standard supersedes the SS-EN ISO 14731:2006, edition 1 and SS-EN ISO 14731:2006, edition 1

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EUROPEAN STANDARD

EN ISO 14731

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2019

ICS 25.160.01

Supersedes EN ISO 14731:2006

English Version

Welding coordination - Tasks and responsibilities (ISO 14731:2019)

Coordination en soudage - Tâches et
responsabilités (ISO 14731:2019)

Schweißaufsicht - Aufgaben und
Verantwortung (ISO 14731:2019)

This European Standard was approved by CEN on 28 February 2019.

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European foreword

This document (EN ISO 14731:2019) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 "Welding and allied processes" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

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Endorsement notice

The text of ISO 14731:2019 has been approved by CEN as EN ISO 14731:2019 without any modification.

Introduction

Validation and verification of welding requires competent personnel to perform welding coordination to establish confidence in weld quality and to ensure reliable performance in service.

The tasks and responsibilities of welding coordination personnel involved in welding-related activities (e.g. planning, executing, supervising and inspection) need to be clearly defined.

Welding coordination — Tasks and responsibilities

1 Scope

This document identifies the essential welding quality related tasks and responsibilities included in welding coordination.

The principle of an assessment according to this document is that welding coordination personnel need to be competent in the welding-related tasks allocated to them.

It is presumed that welding coordination personnel have the necessary education, qualifications and experience and are appointed by the manufacturer.

Regulatory documents, application standards and contracts can give specific requirements for welding coordination personnel. Otherwise, it is the responsibility of the manufacturer to determine the requirements to be in compliance with this document.

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 3834 (all parts), *Quality requirements for fusion welding of metallic materials*

ISO/TR 25901-1, *Welding and allied processes — Vocabulary — Part 1: General terms*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/TR 25901-1 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

manufacturer

entity carrying out welding and related activities under the same technical and quality management

Note 1 to entry: Welding and related activities may be carried out in a workshop or onsite or both, but the manufacturer remains responsible for the welding production.

3.2

welding coordination

coordination of manufacturing operations for all welding and welding-related activities

Note 1 to entry: Welding coordination can be assigned to an individual or a team.

3.3

welding coordination personnel

welding coordinator

person or group of people performing defined welding coordination tasks

Note 1 to entry: Different personnel may be appointed by the *manufacturer* (3.1) for different welding and related tasks.

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Note 2 to entry: A qualification and/or practical experience may be required.

3.4 welding inspection

conformity evaluation of welding variables by observation and judgment accompanied as appropriate by measurement or testing

Note 1 to entry: Welding inspection is a part of welding coordination.

3.5 skill

ability to apply knowledge and experience to complete tasks and solve problems

Note 1 to entry: Skills are described as cognitive (involving the use of logical, intuitive and creative thinking) or practical (involving manual dexterity and the use of methods, materials, tools and instruments).

[Adapted from European Council Recommendation 2017/C 189/03, Annex I, (g)]^[1]

3.6 knowledge

outcome of the assimilation of information, the body of facts, principles, theories and practices that is related to a field of work, through learning (theoretical and/or factual)[Adapted from European Council Recommendation 2017/C 189/03, Annex I, (f)]^[1]

3.7 qualification

<personnel> formal outcome of an assessment and validation process to determine that an individual has achieved learning outcomes to a given program[Adapted from European Council Recommendation 2017/C 189/03, Annex I, (a)]^[1]

3.8 competence

proven ability to use effectively knowledge, skills and personal, social and/or methodological abilities, in a wide variety of work situations in terms of responsibility and autonomy[Adapted from European Council Recommendation 2017/C 189/03, Annex I, (i)]^[1]

3.9 responsibility

accountability, duties, obligations and associated rights assigned by the *manufacturer* (3.1) as a result of competence in the job

4 Tasks and responsibilities

4.1 Welding quality related tasks

[Annex B](#) shall be used by the manufacturer as a guide to allocate welding quality related tasks and responsibilities to welding coordination personnel. It may be supplemented for special applications. Not all the items are required for all manufacturers or quality system requirements, and selection shall be made as appropriate. For example, where there is no destructive testing or post-weld heat treatment, [B.14 c\)](#) and [B.15](#) do not apply.

4.2 Specification of tasks and responsibilities

Welding coordination is the sole responsibility of the manufacturer.

The tasks of welding coordination personnel shall be selected from [Annex B](#) and/or as specified, for example, in application standards and other documents. The level of competence of welding coordination personnel shall be determined in accordance with the complexity of the welding and related activities,

product type(s), criticality of the application and the quality requirements specified in the relevant part of the ISO 3834 series.

Each task in [Annex B](#) may be associated with a number of activities, such as:

- specification and preparation;
- control;
- inspection, checking or witnessing.

Where more than one person carries out welding coordination, the tasks and responsibilities shall be clearly allocated, such that responsibility is clearly defined and the persons are competent for each specific welding coordination task.

The manufacturer shall appoint at least one person to be responsible for welding coordination tasks.

If welding coordination is subcontracted, the tasks and responsibilities shall be defined and documented. However, compliance with this document remains the responsibility of the manufacturer.

NOTE Examples of items to be addressed when welding coordination is subcontracted: a) a provision for the subcontracted welding coordinator to visit the premises, routine or otherwise; b) reports of all visits including purpose and activities carried out.

5 Job description

5.1 General

The manufacturer shall prepare job descriptions for all welding coordination personnel which shall include at least their tasks and responsibilities and extent of authorization, see [5.2](#) and [5.3](#).

The manufacturer shall determine the level of education, qualification and experience (see [Clause 6](#)) required for welding coordination personnel.

Welding coordination personnel shall be able to demonstrate their competence to follow their assigned tasks (see [Annex B](#)), for example, by an assessment in accordance with [Annex A](#).

Each manufacturer is responsible for the appointment of their welding coordination personnel. This appointment is not transferable to other manufacturers.

5.2 Tasks

The tasks assigned to welding coordination personnel shall be identified in accordance with [4.2](#) and [Annex B](#).

5.3 Responsibilities and extent of authorization

The responsibilities and extent of authorization assigned to the welding coordination personnel are identified as follows:

- their position in the manufacturer's organization and their responsibilities;
- the extent of authorization assigned to them to carry out the assigned tasks (see [Annex B](#));
- the extent of authorization assigned to them to accept or validate, by signature, technical administrative documents or contracts, on behalf of the manufacturer, as needed in order to fulfil the assigned tasks, for example, for procedure specification and supervision reports.