

English Version

Plastics welding supervisor - Task, responsibilities, knowledge, skills and competence

Superviseur en soudage de matières plastiques -
Missions, responsabilités, connaissances, qualifications
et compétences

Kunststoffschweißaufsicht - Aufgaben,
Verantwortungen, Wissen, Fähigkeiten und Kompetenz

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European foreword

This document (CEN/TR 16862:2023) has been prepared by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by SIS.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN/TR 16862:2015.

CEN/TR 16862:2023 includes the following significant technical changes with respect to CEN/TR 16862:2015:

- in clause 3, definition of “informal learning” and “non-formal learning”, clarifications for the definition of “plastics welding supervisor”;
- in clause 5.2 added two points for the welding processes on “practical experience” and on “health, safety, and environmental aspects”

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

Introduction

Welding is a special process that requires the coordination of activities related to quality, including construction, testing and maintenance in order to ensure confidence in the reliability of welded structures and their behaviour in service. This document defines the tasks and responsibilities, knowledge, skills, and competence necessary to carry out the role of "plastic welding supervisor".

The use of this document helps an organization to provide evidence of sound management and can, therefore, represent a technical credential for the achievement of the welded product's performance requirements.

1 Scope

This document identifies the quality-related responsibilities and tasks included in the supervision of activities related to the welding of products and semi-finished products made of thermoplastic materials and provides guidelines to ensure the quality of the supervision.

The fundamental aspects of this document are the following:

- definition of tasks and responsibilities;
- definition of the required knowledge, skills and competence.

The plastic welding supervisor (PWS) is employed by the organization involved in the welding activities. This document applies to all thermoplastic welding processes.

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.

EN ISO 9000, *Quality management systems - Fundamentals and vocabulary (ISO 9000)*

EN ISO/IEC 17000, *Conformity assessment — Vocabulary and general principles (ISO/IEC 17000)*

ISO 3834-1, *Quality requirements for fusion welding of metallic materials — Part 1: Criteria for the selection of the appropriate level of quality requirements*

3 Terms and definitions

For the purpose of this document, the terms and definitions given in EN ISO 9000, ISO 3834-1 and ISO/IEC 17000 and the following apply.

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

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

competence

demonstrated ability to apply knowledge, skills and personal, social and/or methodological abilities, in work or study situations and in professional and personal development

Note 1 to entry: In the context of the European Qualifications Framework, competence is described in terms of responsibility and autonomy.

3.2

conformity

fulfilment of a requirement

3.3

construction

product, structure or any other object welded

3.4

construction plan

document for a specific project, product, process or contract, which specifies the procedures and associated resources that must be used, by whom and when

3.5

contract

binding agreement

3.6

corrective action

action to eliminate the cause of a detected non-conformity or other undesirable situation

3.7

informal learning

non-purposive learning that takes place in everyday life contexts in the family, at work, during leisure and in the community

Note 1 to entry: Adapted from European Council - Glossary

3.8

non-formal learning

purposive, but voluntary, learning that takes place in a diverse range of environments and situations for which teaching/training and learning is not necessarily their sole or main activity

Note 1 to entry: Adapted from European Council - Glossary

3.9

knowledge

body of facts, principles, theories and practices that is related to a field of work or study

Note 1 to entry: In the context of the European Qualifications Framework, knowledge is described as theoretical and/or factual.

3.10

organization

group of people and facilities, with an arrangement of responsibilities, authorities and relationships

3.11

plastics welding supervisor

PWS

person employed by welding organization responsible and competent to perform the welding supervision activities

3.12

process

set of interrelated or interacting activities which transform inputs into outputs

3.13

project

unique process, consisting of a set of coordinated and monitored activities, with start and finish dates, undertaken to an objective conforming to specific requirements, including time, costs and resource