



# SLOVENSKI STANDARD SIST-TP CEN/TR 16862:2015

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## Nadzor plastike za varjenje - Naloge, odgovornosti, znanje, spretnosti in kompetence

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

Kunststoffsweißaufsicht - Aufgaben, Verantwortungen, Wissen, Fähigkeiten und Kompetenz

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

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### ICS:

03.100.30	Vodenje ljudi	Management of human resources
25.160.10	Varilni postopki in varjenje	Welding processes

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ICS 03.100.30; 25.160.10

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

This Technical Report was approved by CEN on 6 July 2015. It has been drawn up by the Technical Committee CEN/TC 249.

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

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## European foreword

This document (CEN/TR 16862:2015) has been prepared by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by NBN.

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

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## 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 Technical Report defines the tasks and responsibilities, knowledge, skills, and competence necessary to carry out the role of "plastic welding supervisor".

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

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## 1 Scope

This Technical Report 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 Technical Report are the following:

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

The plastic welding supervisor (PWS) should be employed by the organization involved in the welding activities. This Technical Report applies to all thermoplastic welding processes.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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

[SIST-TP CEN/TR 16862:2015](https://standards.iteh.ai/catalog/standards/sist/0037fa2-e410-4ac7-8b35-d1e246c14f51/sist-tp-cen-tr-16862-2015)

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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.

### 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

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- 3.6**  
**corrective action**  
action to eliminate the cause of a detected non-conformity or other undesirable situation
- 3.7**  
**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.
- 3.8**  
**organization**  
group of people and facilities, with an arrangement of responsibilities, authorities and relationships
- 3.9**  
**plastics welding supervisor**  
**PWS**  
person responsible and competent to perform the welding supervision activities
- 3.10**  
**process**  
set of interrelated or interacting activities which transform inputs into outputs
- 3.11**  
**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
- 3.12**  
**qualification process**  
process to demonstrate the ability to fulfil specified requirements
- 3.13**  
**release**  
permission to proceed to the next stage of a process
- 3.14**  
**requirement**  
need or expectation that can be stated, generally implied or obligatory
- 3.15**  
**review**  
activity undertaken to determine the suitability, adequacy and effectiveness of subject matter to achieve established objectives
- 3.16**  
**sub-contractor**  
supplier of products, services and/or activities to the manufacturer in a contractual situation
- 3.17**  
**skill**  
ability to apply knowledge and use know-how to complete tasks and solve problems

Note 1 to entry: In the context of the European Qualifications Framework, 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).



**3.18****test**

determination of one or more characteristics according to a procedure

**3.19****weldability**

property of material(s) to achieve a welded joint that meets the design requirements

**3.20****welding procedure**

specified course of action to be followed in making a weld, including the welding process(es), reference to materials, welding consumables, preparation, preheating (if necessary), method and control of welding and necessary equipment to be used

**3.21****welding report**

document automatically generated by the welding equipment

**3.22****welding plan**

order in which the welds are made

**3.23****work instruction**

all the stages of work and verification derived from the welding procedure

**4 Tasks and responsibilities****4.1 General**

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The PWS should record objective evidence of results of all activities covered in 4.2 to 4.4.

Compliance to this Technical Report is the responsibility of the organization involved in the welding activities. Where supervision is performed by more than one person, the tasks and responsibilities should be allocated such that responsibility is clearly defined and the persons are competent in each specific welding supervision task.

**4.2 Pre-welding activities****4.2.1 General**

The PWS should be able to conduct and/or verify the activities described in 4.2.2 to 4.2.8.

**4.2.2 Contract review**

The PWS should verify the ability of all organizations, including sub-contractors, involved in the project to carry out activities related to welding covered by this Technical Report, e.g. availability of

- welding and ancillary equipment,
- qualified welding personnel,
- provision for testing.