

## **Cathodic protection - Competence levels and certification of cathodic protection personnel**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 15257:2007 sisaldab Euroopa standardi EN 15257:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 29.01.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 15257:2007 consists of the English text of the European standard EN 15257:2006.</p> <p>This document is endorsed on 29.01.2007 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This European Standard defines three competence levels (Annex B) of personnel acting in the field of cathodic protection, including survey, design, installation, testing and maintenance. It specifies a framework of procedures for the training and certification for the personnel to reach and demonstrate the competence levels. It defines the minimum requirements for certification bodies responsible for this certification.</p>	<p><b>Scope:</b></p> <p>This European Standard defines three competence levels (Annex B) of personnel acting in the field of cathodic protection, including survey, design, installation, testing and maintenance. It specifies a framework of procedures for the training and certification for the personnel to reach and demonstrate the competence levels. It defines the minimum requirements for certification bodies responsible for this certification.</p>
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ICS 77.060

Võtmesõnad:

ICS 77.060

English Version

## Cathodic protection - Competence levels and certification of cathodic protection personnel

Protection cathodique - Niveaux de compétence et certification du personnel en protection cathodique

Kathodischer Korrosionsschutz - Qualifikationsgrade und Zertifizierung von für den kathodischen Korrosionsschutz geschultem Personal

This European Standard was approved by CEN on 28 October 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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# Contents

Page

Foreword.....	4
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	6
4 General principles, duties and responsibilities .....	7
4.1 Certification body .....	7
4.2 Delegated body .....	8
4.3 Training centre .....	8
4.4 Examination centre .....	8
5 Levels of competence .....	9
5.1 General.....	9
5.2 Level 1 .....	9
5.3 Level 2 .....	9
5.4 Level 3 .....	10
6 Eligibility for certification.....	11
6.1 General.....	11
6.2 Training .....	11
6.2.1 General.....	11
6.2.2 Level 1 and level 2 .....	11
6.2.3 Level 3 .....	11
6.3 Industrial experience .....	12
7 Competence assessment for certification .....	12
7.1 General.....	12
7.2 Examination for level 1 and level 2 .....	12
7.2.1 General.....	12
7.2.2 Common-core examination session .....	13
7.2.3 Sectoral theoretical examination session .....	13
7.2.4 Sectoral practical examination session .....	13
7.2.5 Conduct of examinations .....	13
7.2.6 Grading of the Level 1 and Level 2 certification examination .....	14
7.2.7 Final assessment .....	14
7.3 Assessment for level 3 .....	14
7.4 Re-assessment.....	15
7.5 Competence assessment exemptions.....	15
8 Administration of certification.....	15
8.1 Certificates and/or wallet cards.....	15
8.2 Provisional certification .....	15
8.3 Validity period of certificate.....	16
9 Re-certification.....	16
9.1 General.....	16
9.2 Levels 1 and 2 .....	16
9.3 Level 3 .....	16
10 Files .....	16
11 Establishment of new certification schemes, extension of schemes, transition periods .....	17
11.1 General.....	17
11.2 Certification body .....	17

11.3	Certification scheme and training .....	17
11.3.1	General .....	17
11.3.2	Appointment of trustees .....	17
11.3.3	Establishment of certification scheme.....	17
11.3.4	Liaisons with existing schemes.....	17
11.4	Transition period for examiners and assessment committee .....	17
11.5	Transition period for previously certificated personnel.....	18
11.6	National boundaries .....	18
Annex A	Application sectors (normative).....	19
A.1	General .....	19
A.2	Underground and immersed metallic structures .....	19
A.3	Marine metallic structures .....	19
A.4	Reinforced concrete structures .....	20
A.5	Inner surfaces of metallic container structures .....	20
Annex B	Competence levels (normative).....	21
B.1	General .....	21
B.1.1	Introduction.....	21
B.1.2	Level 1.....	21
B.1.3	Level 2.....	21
B.1.4	Level 3.....	21
B.1.5	Tasks to be fulfilled in all application sectors.....	22
B.2	Specific tasks for underground and immersed metallic structures application sector .....	22
B.3	Specific tasks for marine metallic structures application sector.....	24
B.4	Specific tasks for reinforced concrete structures application sector .....	25
B.5	Specific tasks for inner surfaces of metallic structures application sector .....	27

## Foreword

This document (EN 15257:2006) has been prepared by Technical Committee CEN/TC 219 "Cathodic protection", the secretariat of which is held by BSI.

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 June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

This document is aimed at enabling the competence of personnel carrying out cathodic protection studies, execution work, inspections and maintenance work to be defined and verified. The relevant application sectors concern underground or immersed metallic structures, marine metallic structures, reinforced concrete structures and the inner surfaces of metallic container structures.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## 1 Scope

This European Standard defines three competence levels (Annex B) of personnel acting in the field of cathodic protection, including survey, design, installation, testing and maintenance. It specifies a framework of procedures for the training and certification for the personnel to reach and demonstrate the competence levels. It defines the minimum requirements for certification bodies responsible for this certification.

The procedures for certification of cathodic protection personnel should be in accordance with EN ISO/IEC 17024.

Competence levels and certification schemes apply to each of the following application sectors:

- underground and immersed metallic structures;
- marine metallic structures;
- reinforced concrete structures;
- inner surfaces of metallic container structures.

These application sectors are detailed in Annex A.

It is not mandatory for a certification body to establish certification in all application sectors or to all levels of competence.

A certification body may subdivide application sectors and may combine levels of competence. If such subdivision and/or combination are used by the certification body, it should ensure that the certificates discriminate these divided sectors or combined levels from those defined in this standard.

NOTE 1 This European Standard does not incorporate the certification of companies or services.

NOTE 2 This European Standard does not include internal corporate assessment and qualification of personnel.

NOTE 3 Wherever gender specific words such as "his", "her", "he" or "she" appears in this standard the other gender is also applicable.

## 2 Normative references

The following referenced documents are indispensable for the application 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 12473, *General principles of cathodic protection in sea water*

EN 12474, *Cathodic protection for submarine pipelines*

EN 12495, *Cathodic protection for fixed steel offshore structures*

EN 12499, *Internal cathodic protection of metallic structures*

EN 12696, *Cathodic protection of steel in concrete*

EN 12954, *Cathodic protection of buried or immersed metallic structures - General principles and application for pipelines*

EN 13173, *Cathodic protection for steel offshore floating structures*

EN 13174, *Cathodic protection for harbour installations*

EN 13509, *Cathodic protection measurement techniques*

EN 13636, *Cathodic protection of buried metallic tanks and related piping*

EN 14505, *Cathodic protection of complex structures*

EN 15112, *External cathodic protection of well casings*

EN 50162, *Protection against corrosion by stray current from direct current systems*

EN ISO/IEC 17024, *Conformity assessment - General requirements for bodies operating certification for persons (ISO/IEC 17024:2003)*

EN ISO 8044:1999, *Corrosion of metals and alloys - Basic terms and definitions (ISO 8044:1999)*

CEN/TS 14038-1, *Electrochemical realkalization and chloride extraction treatments for reinforced concrete - Part 1: Realkalization*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 8044:1999 and the following apply.

**3.1 application sector**  
particular section of industry or technology where specialised cathodic protection design, testing and maintenance practices are used requiring specific system related knowledge, skill, equipment or training

NOTE Application sectors are detailed in Annex A.

**3.2 candidate**  
person applying for certification for a given level in a given application sector

**3.3 cathodic protection personnel**  
personnel who devote a regular and significant percentage of their professional activity to the practical application of cathodic protection within one or more of the application sectors

**3.4 certificate**  
document issued under the rules of the certification system defined in this standard indicating that the named person has demonstrated that he is competent to perform the tasks defined in this standard for the given level and application sector identified on the certificate

**3.5 certification assessment**  
assessment of competence by examination or general assessment (for level 3 only)

**3.6 certification body**  
body that administers procedures for certification of cathodic personnel according to the requirements of this standard and which fulfils the requirements of EN ISO/IEC 17024

**3.7 certification examination**  
procedure that is part of the certification assessment, which measures a candidate's competence by one or more means such as written, oral, practical and observational examination

**3.8 competence**  
ability of personnel to undertake tasks at specific levels and in specific cathodic protection application sectors in accordance with existing European Standards on cathodic protection. This is demonstrated by appropriate levels of training, professional knowledge, skill and experience