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Maintenance - Maintenance within physical asset management

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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ICS 03.100.01

English Version

Maintenance - Maintenance within physical asset management

Maintenance - Maintenance dans le cadre de la gestion des actifs physiques

Instandhaltung - Instandhaltung im Rahmen des Anlagenmanagements

This European Standard was approved by CEN on 8 November 2014.

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 CEN-CENELEC Management Centre or to any CEN member.

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

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Contents	Page
Foreword.....	3
Introduction	4
1 Scope	6
2 Normative references	6
3 Terms, definitions and abbreviations.....	6
3.1 Terms and definitions	6
3.2 Abbreviations	8
4 Overview of physical asset management	8
4.1 What is physical asset management	8
4.2 Hierarchy of physical assets: asset portfolio, asset systems and individual assets.....	8
4.3 Item and asset life and life cycle of physical assets	9
4.4 Organizational context	9
5 Management system for physical assets	10
5.1 Purpose of physical asset management system.....	10
5.2 Interaction between organizational context, physical asset management and maintenance management.....	10
5.3 The influence of organizational context at the different levels of physical assets	13
5.4 Management of maintenance process.....	13
5.5 Maintenance management responsibilities	14
6 Physical asset management processes	14
6.1 Physical asset management processes and life cycle stages.....	14
6.2 Life cycle, asset and maintenance management processes	15
6.2.1 General.....	15
6.2.2 Physical asset management process and maintenance management process at the portfolio level	15
6.2.3 Asset, maintenance and life cycle management process at the asset system level.....	17
6.2.4 Physical asset management process, life cycle and maintenance management at the asset level.....	20
6.3 Interrelationship between maintenance and other processes at asset and asset system level	22
6.3.1 Interrelationships between maintenance and acquisition/creation process	22
6.3.2 Interrelationships between maintenance and operation	25
6.3.3 Interrelationships between maintenance and modernization	26
6.3.4 Interrelationships between maintenance and disposal	28
6.3.5 Interrelationships between maintenance and physical asset management supports	29
6.3.6 Interrelationships between maintenance and management of assets.....	30
7 Performance monitoring	31
7.1 General KPIs of physical asset management	31
7.2 Specific performance indicators	32
8 Organization and people enablers: organizational competences	33
8.1 Structure and procedures	33
8.2 Competences	33
8.2.1 General.....	33
8.2.2 Asset portfolio and asset system levels	33
8.2.3 Asset level	34
Bibliography	35

Foreword

This document (EN 16646:2014) has been prepared by Technical Committee CEN/TC 319 "Maintenance", the secretariat of which is held by UNI.

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 2015 and conflicting national standards shall be withdrawn at the latest by June 2015.

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

Why do we need 'physical asset management' today more than before? There are some very good reasons to develop 'physical asset management' in all its aspects. There are also good reasons to clarify interrelationship between physical asset management processes and maintenance processes. Some of the reasons why physical asset management and maintenance as a part of physical asset management has become a more essential part of the organizations' activities during the last decades are for example:

- globalization and increasing competition;
- growing financial, safety and environmental risks;
- radical change in business strategy – long term vs. short term;
- attitudes towards physical assets have changed – nowadays it is more common that the length of the ownership is not the same as the length of the whole item life;
- growth of capital intensity in some areas of industry;
- growing turbulence in the market;
- pressure for higher profitability and return on assets;
- aging of asset systems;
- increased pressure to improve added value of maintenance;
- more complicated and uncertain decision environment;
- increased requirements from the safety and environmental point of view;
- 'silo' behaviour which keeps maintenance and other life cycle processes separated.

In addition to the above mentioned trends in the market behaviour and technological development, there are many benefits which can be achieved with physical asset management activities:

- economically more efficient and effective use of capital: "turnover of capital";
- more profitable business: "return on assets";
- more sustainable use of capital;
- more accurate long term life cycle decisions;
- direction to maintenance strategies and operations;
- integrated investment and maintenance planning;
- influence of maintenance function on asset creation development (design and engineering);
- integrated approach for production function (assets, operation and maintenance);
- improved position for the maintenance function among the other company functions;
- improved assessment of performance and control;

— enhanced reputation.

Further and maybe even greater benefits are now being found through improved credibility in the eyes of customers, regulators and other stakeholders. Physical asset management also results in much greater engagement and motivation of the workforce, and in more sustainable, continual improvement business processes. Physical asset management builds up the required link between maintenance management and organizational strategic plan and gives direction to maintenance activities.

1 Scope

This European Standard introduces physical asset management as a framework for maintenance activities. It also introduces the relationship between organizational strategic plan and maintenance management system and describes the interrelations between maintenance process and all the other physical asset management processes. It addresses the role and importance of maintenance within physical asset management system during the whole life cycle of an item.

This European Standard can be applied to production organizations of all sizes. However, if specific standards exist for a particular application or field of industry, those documents should also be considered.

This European Standard consists of guidance and recommendations and is not intended to be used for certification, regulatory, or contractual use.

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 13306, *Maintenance - Maintenance terminology*

ISO 55000, *Asset management — Overview, principles and terminology*

ISO 55001, *Asset management — Management systems — Requirements*

ISO 55002, *Asset management — Management systems — Guidelines for the application of ISO 55001*

EN 60300-3-3, *Dependability management - Part 3-3: Application guide - Life cycle costing (IEC 60300-3-3)*

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