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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Implementation guidances for knowledge management-Part 1:
Equipment manufacturing**

知识管理实施指南 第1部分：装备制造业

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 1 of GB/T 44651 "Guidelines for the Implementation of Knowledge Management". GB/T 44651 has been published in the following parts.

- Part 1: Equipment manufacturing industry.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is submitted by the State Intellectual Property Office.

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0.1 Overview

Equipment manufacturing is a basic and strategic industry related to the long-term

development of the country and an important guarantee for national economic and military security.

The Party Central Committee and the State Council proposed the innovation-driven development strategy, and relevant departments proposed The strategic plans for high-quality development of manufacturing, intelligent manufacturing, advanced manufacturing, and quality power are put forward to promote the construction of knowledge management system in equipment manufacturing industry.

Knowledge, as an important production factor, is the core of equipment manufacturing industry R&D design, production and manufacturing, procurement logistics, after-sales service It is the basic resource of China's manufacturing industry and the supporting factor of quality management, innovation management, human resource management, digital system construction, etc.

The transition from Chinese manufacturing to Chinese creation is of great significance.

This document aims to serve the high-quality development of the manufacturing industry, with knowledge management based on the development and utilization of industrial big data as the main line.

Under the guidance of GB/T 34061.1, combined with the current situation and needs of China's manufacturing industry, a general framework and method for manufacturing knowledge management are proposed.

Through the planning and management of equipment manufacturing knowledge and knowledge activities, we will promote the construction of digitalization, knowledge and intelligence, and realize The transformation, transition and upgrading of the current manufacturing industry.

0.2 Process Approach

In order to promote the effectiveness of knowledge management in solving business problems and to promote business strategy through knowledge strategy, this paper adopts two dimensions of interaction.

The operation of the knowledge management system should be based on the business value chain, such as product research and development, Manufacturing and service, marketing, and operation guarantee business value chain, conduct knowledge appraisal for knowledge problems and needs in business links Business personnel participate in knowledge activities such as identification, acquisition, storage, sharing, application and protection, as shown in Figure 1.

Figure 1 Integration of business chain and knowledge chain GB/T 44651 "Guidelines for the Implementation of Knowledge Management" aims to provide guidance for the implementation of knowledge management systems in different industries.

It consists of the following parts.

- Part 1: Equipment manufacturing industry. The purpose is to provide a general framework, methods and construction guidelines for knowledge management for the manufacturing industry.
- Part 2: Pharmaceuticals. The purpose is to provide a general framework, methods and construction guidelines for knowledge management in the pharmaceutical industry.
- Part 3: Electricity. The purpose is to provide a general framework, methods and construction guidelines for knowledge management in the power industry.

Knowledge Management Implementation Guide Part 1: Equipment manufacturing industry

1 Scope

This document provides guidance for the implementation of a knowledge management system in equipment manufacturing organizations.

This document is applicable to equipment manufacturing enterprises, scientific research institutes, service agencies and other organizations to implement knowledge management systems. Other types of organizations can refer to implement.

2 Normative references

GB/T 19000

GB/T 23703.2

GB/T 34061.1

3 Terms and definitions

The terms and definitions defined in GB/T 19000, GB/T 23703.2, GB/T 34061.1 and the following apply to this document.

3.1 Management system

A set of related or interacting elements that establishes policies, objectives and processes within an organization and achieves those objectives.

[Source. GB/T 19000-2016, 3.5.3]

3.2 [Source. GB/T 34061.1-2017, 3.2]

Components of management systems related to knowledge.