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

GB/T 23721-2026

Replacing GB/T 23721-2009

Cranes - Training of slingers and signallers

起重机 吊装工和指挥人员的培训

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document supersedes GB/T 23721-2009 "Training of Crane Lifters and Signalmen" and is consistent with GB/T 23721-2009.

Compared to previous versions, aside from structural adjustments and editorial changes, the main technical changes are as follows.

---The chapter on "Essential Qualities and Knowledge" has been deleted (see Chapter 3 in the 2009 edition);

---Training requirements have been added (see Chapter 4);

---The knowledge about cranes in the training course has been revised [see 7.1.1c, 6.1.1c of the 2009 edition];

---Added "Load Control" [see 7.1.1d];

---The requirements regarding the inclusion of knowledge about lifting slings in training courses have been revised [see 7.1.2a) and b), and 6.1.2a) and b) from the 2009 edition];

---The section on fiber slings and other lifting equipment in the knowledge of slings has been amended [see 7.1.2c), d), and 6.1.2c (2009 edition).

---The requirements regarding the inclusion of knowledge on hoisting methods in training courses have been revised [see 7.1.4b) and c), and 6.1.4b) from the 2009 edition.

---The requirement that training courses should include "flag signals" has been removed from the section on signaling knowledge [see 6.1.5b) and 6.2.3b) in the 2009 edition];

---Added relevant content on safety specifications (see 7.1.6);

---The requirements regarding the inclusion of work planning knowledge in training courses have been revised [see 7.1.7c) and d), and 6.1.7c) and d) in the 2009 edition];

---Added the requirement for potential hazards to be aware of at the hoisting operation site under "other cranes, equipment, or vehicles" [see 7.1.8b)];

---Added requirements for load control in hazard identification and control measures [see 7.1.8c];

---Added practical training courses on actual load mass estimation, wire rope sling selection, double-wound basket hoisting, and clamp hoisting.

The relevant details of the training steps are shown in 7.2.1.

---Added safety measures for hoisting operations in the operational courses. "Regular safety briefings for personnel involved in crane control and load handling." the requirements of the "All-round Coordination Meeting" [see 7.2.2c)];

---The steps for determining the center of gravity and installation point in the installation procedure for the lifting gear have been modified [see 7.2.7.1a, 6.2.7.1a in the 2009 edition];

---Added practice on the installation of rigging, requiring "correct use of rigging" [see 7.2.7.1e];

---Added requirements regarding evaluation by a third party (see 8.1).

This document is equivalent to ISO 23853:2023 "Training of crane operators and signalmen".

Please note that some content in this document may involve patents. The issuing

organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Lifting Machinery (SAC/TC227).

1 Scope

This document specifies the requirements for trained crane operators and signalmen to obtain the qualifications specified in ISO 15513.

The basic training requirements for personnel are aimed at acquiring fundamental lifting skills and essential knowledge.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 23722-2009 Qualification requirements for crane operators, hoisters, signalmen and assessors (ISO 15513.

2000, IDT)

ISO 15513 Qualification requirements for crane operators, hoisters, signalmen and assessors [Cranes-Note. GB/T 23722-2009 Qualification requirements for crane operators, hoisters, signalmen and assessors (ISO 15513:2000, IDT) Note. GB/T 5082-2019 Crane hand signals (ISO 16715:2014, IDT)

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4 Training Requirements

The hoisting workers and the signalmen should be trained in accordance with the provisions of 5.3 and 5.4 in GB/T 23722-2009, respectively.

5 Training Objectives

The purpose of hoisting operator/signal training is to impart the following knowledge.

- Knowledge about cranes;
- Knowledge related to hoisting components;
- Safe hoisting methods;
- Methods for sending signals;
- Safe hoisting skills;
- Knowledge related to work planning, hazard identification, and load control.

6 Training Plan

The content and schedule of the training plan should fully achieve the training objectives.