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Cranes — Safe use —

Part 1: General

Appareils de levage à charge suspendue — Sécurité d'emploi — Partie 1: Généralités

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Foreword

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This document was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 5, *Use, operation and maintenance.*

This second edition cancels and replaces the first edition (ISO 12480-1:1997), which has been technically revised.

The main changes are as follows:

— “driver” has been replaced by “operator” throughout the text;

— the requirements related to demolition ball operations have been removed;

— the requirements related to periodic checks have been removed;

— the requirements related to the communication system have been revised and incorporated into the main text (see 5.3);

— the requirements related to crane activities ranging from crane planning, selection, placement, erection and dismantling, operation, etc., have been combined into an independent clause (see Clause 6);

— the requirements related to remote operation have been added (see 6.6);

— the requirements related to lifting and lowering of persons have been made into an informative annex (see Annex A).

A list of all parts in the ISO 12480 series can be found on the ISO website.

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Cranes — Safe use —

Part 1: General

1 Scope

This document establishes required practices for the safe use of cranes through implementing a safe system of work consisting of the task planning, selection, erection and dismantling, operation and maintenance of cranes, and the selection of operators, slingers and signallers.

This document does not cover manually operated (non-powered) cranes, cranes in which at least one of its motions is manually operated and cranes mounted on water-borne vessels, except in those circumstances where a land-based crane is temporarily affixed to a vessel.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 4306 (all parts), *Cranes — Vocabulary*

ISO 4309:2017, *Cranes — Wire ropes — Care and maintenance, inspection and discard*

ISO 4310, *Cranes — Test code and procedures*

ISO 9927-1, *Cranes — Inspections — Part 1: General*

ISO 9927-3, *Cranes — Inspections — Part 3: Tower cranes*

ISO 9927-5, *Cranes — Inspections — Part 5: Bridge and gantry cranes, including portal and semi-portal cranes and their supporting structures*

ISO 12482, *Cranes — Monitoring for crane design working period*

ISO 15513, *Cranes — Competency requirements for crane drivers (operators), slingers, signallers and assessors*

ISO 16715, *Cranes — Hand signals used with cranes*

ISO 17096, *Cranes — Safety — Load lifting attachments*

ISO 23813, *Cranes — Training of appointed persons*

ISO 23814, *Cranes — Competency requirements for crane inspectors*

ISO 23815-1, *Cranes — Maintenance — Part 1: General*

IEC 60204-32, *Safety of machinery — Electrical equipment of machines — Part 32: Requirements for hoisting machines*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4306 (all parts) and the following apply.

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