

AS ISO 7130:2021  
ISO 7130:2013



STANDARDS  
Australia



# Earth-moving machinery — Operator training — Content and methods



currently in preview, click buy full version

AS ISO 7130:2021

This Australian Standard® was prepared by ME-063, Earthmoving Equipment. It was approved on behalf of the Council of Standards Australia on 11 December 2020.

This Standard was published on 22 January 2021.

The following are represented on Committee ME-063:

Australian Industry Group  
Better Regulation Division — SafeWork NSW  
Construction and Mining Equipment Industry Group  
Department of Natural Resources, Mines and Energy, Qld  
Department of Regional NSW  
Engineers Australia/Mining Electrical and Mining Mechanical Engineering Society  
Institute of Instrumentation, Control & Automation Australia  
Minerals Council of Australia  
University of Queensland

This Standard was issued in draft form for comment as DR AS ISO 7130:2020.

#### **Keeping Standards up-to-date**

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

[www.standards.org.au](http://www.standards.org.au)

ISBN 978 1 76113 142 4

# Earth-moving machinery — Operator training — Content and methods

First published as AS ISO 7130:2021.

## **COPYRIGHT**

© ISO 2021 — All rights reserved  
© Standards Australia Limited 2021

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

## Preface

This Standard was prepared by the Standards Australia Committee ME-063, Earthmoving Equipment.

The objective of this document is to provide a basis for content and methods used for operator training for earth-moving machinery as defined in ISO 6165. This training provides the basis for developing operators of earth-moving machinery who are knowledgeable and understand the manufacturer's instructions for safe and proper operation and routine maintenance.

This document establishes criteria for evaluating the competency of a person who operates and could perform routine maintenance of earth-moving machinery.

This document does not specify any procedure for proficiency testing or assessment of the operator's competence of operating and maintaining earth-moving machinery. It is not intended to substitute for national or regional requirements or regulations related to operator training.

This document is identical with, and has been reproduced from, ISO 7130:2013, *Earth-moving machinery — Operator training — Content and methods*.

As this document has been reproduced from an International Standard, the following applies:

- (a) In the source text "this International Standard" should read "this document".
- (b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms "normative" and "informative" are used in standards to define the application of the appendices or annexes to which they apply. A "normative" appendix or annex is an integral part of a Standard, whereas an "informative" appendix or annex is only for information and guidance.

## Contents

Preface .....	ii
Foreword .....	iv
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>1</b>
<b>4 Requirements .....</b>	<b>2</b>
4.1 General .....	2
4.2 Criteria .....	2
<b>5 Trainers .....</b>	<b>3</b>
5.1 General .....	3
5.2 Qualifications .....	3
5.3 Resources .....	3
5.4 Facility and training methods .....	4
<b>6 Documentation of training activity .....</b>	<b>4</b>

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 7130 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 3, *Machine characteristics, electrical and electronic systems, operation and maintenance*.

This second edition cancels and replaces the first edition (ISO 7130:1981), which has been technically revised.

# Australian Standard®

## Earth-moving machinery — Operator training — Content and methods

### 1 Scope

This International Standard provides a basis for content and methods used for operator training for earth-moving machinery as defined in ISO 6165. The training in turn provides the basis for developing operators of earth-moving machinery who are knowledgeable and understand the manufacturer's instructions for safe and proper operation and routine maintenance. It establishes criteria for evaluating the competency of a person who operates and could perform routine maintenance of earth-moving machinery, but does not specify any procedure for proficiency testing or assessment of the operator's competence of operating and maintaining earth-moving machinery. It is not intended to substitute for national or regional requirements or regulations related to operator training.

### 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.

ISO 6165, *Earth-moving machinery — Basic types — Identification and terms and definitions*

ISO 6405-1, *Earth-moving machinery — Symbols for operator controls and other displays — Part 1: Common symbols*

ISO 6405-2, *Earth-moving machinery — Symbols for operator controls and other displays — Part 2: Specific symbols for machines, equipment and accessories*

ISO 9244, *Earth-moving machinery — Machine safety labels — General principles*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6165 and the following apply.

#### 3.1

##### **operator**

person who operates and could perform routine maintenance of earth-moving machinery

Note 1 to entry: "Routine" includes items as defined by the manufacturer, e.g. tyre pressure, fluid levels.

#### 3.2

##### **simulator**

system that imitates the experience of operating an earth-moving machine

#### 3.3

##### **trainee**

person receiving training

#### 3.4

##### **trainer**

person qualified to instruct a trainee to properly operate and perform routine maintenance of earth-moving machinery

#### 3.5

##### **training**

process of acquiring knowledge and developing skills and competency to operate and perform routine maintenance of earth-moving machinery