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# **Ergonomic design of control centres — Part 4: Layout and dimensions of workstations**

*Conception ergonomique des centres de commande —*

*Partie 4: Agencement et dimensionnement du poste de travail*



Reference number  
ISO 11064-4:2013(E)

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## Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<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 Initial control workstation layout considerations</b> .....	<b>3</b>
<b>5 Factors determining control workstation design</b> .....	<b>4</b>
5.1 General user considerations.....	5
5.2 Visual tasks.....	9
5.3 Auditory tasks.....	10
5.4 Working postures.....	10
<b>6 Control workstation layout</b> .....	<b>12</b>
6.1 General layout considerations.....	13
6.2 Layout requirements.....	14
<b>7 Control workstation dimensions</b> .....	<b>17</b>
7.1 Dimension considerations.....	17
7.2 Seated control workstations.....	17
7.3 Standing control workstations.....	18
<b>Annex A (informative) Arranging displays and control workstations</b> .....	<b>19</b>
<b>Annex B (informative) Conformance matrix</b> .....	<b>30</b>
<b>Bibliography</b> .....	<b>37</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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2. [www.iso.org/directives](http://www.iso.org/directives)

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received. [www.iso.org/patents](http://www.iso.org/patents)

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

The committee responsible for this document is ISO/TC 159, *Ergonomics*, Subcommittee SC 4, *Ergonomics of human-system interaction*.

This second edition cancels and replaces the first edition (ISO 11064-4:2004), which has been technically revised.

ISO 11064 consists of the following parts, under the general title *Ergonomic design of control centres*:

- *Part 1: Principles for the design of control centres*
- *Part 2: Principles for the arrangement of control suites*
- *Part 3: Control room layout*
- *Part 4: Layout and dimensions of workstations*
- *Part 5: Displays and controls*
- *Part 6: Environmental requirements for control centres*
- *Part 7: Principles for the evaluation of control centres*

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## Introduction

This part of ISO 11064 establishes ergonomic requirements, recommendations and guidelines for the design of workplaces in control centres.

All types of control centres are covered, including those for the process industry, transport and dispatching systems and emergency services. Although this part of ISO 11064 is primarily intended for non-mobile control centres, many of the principles are relevant to mobile centres such as those found on ships, locomotives and aircraft.

User requirements are a central theme of this part of ISO 11064 and the processes described are designed to take into account the needs of users at all design stages. The overall strategy for dealing with user requirements is presented in ISO 11064-1. ISO 11064-2 provides guidance on the design and planning of the control room in relation to its supporting areas. Requirements for the layout of the control room are covered by ISO 11064-3. Displays and controls, human computer interaction and the physical working environment are presented in ISO 11064-5 and ISO 11064-6. Evaluation principles are dealt with in ISO 11064-7.

The users of this standard are assumed to have some understanding of anthropometry, its use and limitations, and its application in the context of control rooms. Where this understanding is in doubt, it is recommended that the advice of an expert be sought.

The ultimate beneficiaries of this part of ISO 11064 will be the operator within the control room and other such users. It is the needs of these users that provide the ergonomic requirements that are addressed by the International Standards developers. Although it is unlikely that the end user will read this International Standard, or even know of its existence, its application should provide the user with interfaces that are more usable and a working environment which is more consistent with operational demands, and result in a solution which will improve system performance, minimize error and enhance productivity.