

**SINGAPORE STANDARD**

# **CP 5 : 1998**

(ICS 29.020)

**CODE OF PRACTICE FOR**

## **Electrical installations**

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## Electrical installations

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SINGAPORE STANDARD  
CODE OF PRACTICE FOR ELECTRICAL INSTALLATIONS

FOREWORD

This Singapore Standard was prepared by the Technical Committee on the Code of Practice for Electrical Installations under the direction of the Electrical Industry Practice Committee.

This edition is a revision of Singapore Standard CP 5 : 1988. The title is revised to 'Code of practice for electrical installations' as it now applies to electrical installations in general. It is aligned with the requirements and format with that of the IEE Wiring Regulations 16th Edition. However, the IEE shall not be held responsible for any errors or omissions that may occur as a result of extracting materials from the IEE publication. IEE 16th Edition is now known as BS 7671 : 1992 'Requirements for electrical installations' and is reproduced by permission of IEE and BSI, 389 Chiswick High Road, London W4 4AL, England.

This code of practice has been drawn up to ensure safety, especially from electric shock and fire in the use of electricity and relates principally to the design, selection, erection, inspection and testing of electrical installations. It is not intended to take the place of detailed specification or to instruct untrained persons or to provide for every circumstance. For installations of a special or complex character, the advice of a suitably qualified professional engineer and consultation with the supply authority will be necessary.

A section on special installations or locations has been included to highlight the more stringent requirements which are necessary for electrical safety.

**NOTE.**

1. Singapore Standards are subject to periodic review to keep abreast of technological changes and new technical developments. The revisions of Singapore Standards are announced through the issue either of amendment slips or revised editions.
2. Compliance with a Singapore Standard does not exempt users from legal obligations.

NOTES ON THE PLAN OF THE CP 5 : 1998

This edition is based on the plan agreed internationally for the safety rules for electrical installations.

In the numbering system used, the first digit signifies a Part, the second digit a Chapter, the third digit a Section, the subsequent digits the clause number. For example, the Section number 413 is made up as follows:

PART 4 - PROTECTION FOR SAFETY  
Chapter 41 (first chapter of Part 4) - Protection against electric shock.  
Section 413 (third section of Chapter 41) - Protection against indirect contact.

Part 1 sets out fundamental requirements for safety that are applicable to all installations.

Part 2 defines the sense in which certain terms are used throughout the Code.

The subjects of the subsequent parts are as indicated below:

Part No.	Subject
3	Identification of the characteristics of the installation that will need to be taken into account in choosing and applying the requirements of the subsequent Parts. These characteristics may vary from one part of an installation to another, and should be assessed for each location to be served by the installation.
4	Description of the basic measures that are available, for the protection of persons, property and livestock and against the hazards that may arise from the use of electricity.  Chapters 41 to 46 each deal with a particular hazard. Chapter 47 deals in more detail with, and qualifies, the practical application of the basic protective measures, and is divided into Sections whose numbering corresponds to the numbering of the preceding chapters; thus Section 471 needs to be read in conjunction with Chapter 41, Section 473 with Chapter 43, and Section 476 with Chapter 46.
5	Precautions to be taken in the selection and erection of the equipment of the installation.  Chapter 51 relates to equipment generally and Chapter 52 to 56 to particular types of equipment.
6	Special installations or locations - particular requirements.
7	Inspection and testing.

The sequence of the plan should be followed in considering the application of any particular requirement of the Code. The general index provides a ready reference to particular clauses by subject, but in applying any one clause the requirements of related clauses should be borne in mind. Cross-references are provided, and the index is arranged, to facilitate this.

Individual clauses are identified by a three-part number, e.g. 413-02-27 and thus CP 5 : 1998 is distinguished from CP 5 : 1988.

In many cases a group of associated clauses is covered by a side heading which is identified by a two-part number, e.g. 547-03. Throughout the Code where reference is made to such a two-part number, that reference is to be taken to include all the individual clause numbers which are covered by that side heading and include that two-part number.

Where an amendment has been made to suit local condition, it is indicated by the letter 'L' or '(L)' immediately after the clause number, term or table where definition of the clause, term or table is provided. Reference elsewhere in the Code to the clause, term or table will be made without such indication.