

# General requirements — Canadian Electrical Code, Part II



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# Preface

This is the tenth edition of CSA C22.2 No. 0, *General requirements — Canadian Electrical Code, Part II*. It supersedes the previous editions, published in 1991, 1982, 1975, 1960, 1956, 1950, 1941, 1936, and 1932.

This edition of the Standard contains new requirements for equipment containing lasers or lithium batteries, criteria for use of adhesives in construction of electrical equipment, surface temperature limits, attachment plug loading, and maximum temperature of equipment in contact with gypsum. This edition also incorporates a comprehensive list of definitions for use in standards for electrical products and outlines the relationship between this Standard and electrical product standards.

The *Canadian Electrical Code* is a publication issued by CSA in several parts. Among these are *Part I*, which establishes safety standards for the installation and maintenance of electrical equipment, and *Part II*, which consists of safety standards governing the construction, testing, and marking of electrical equipment.

*Part II* Standards are prepared by Subcommittees that operate under the jurisdiction of Technical Committees, which in turn are responsible to the Strategic Steering Committee on Requirements for Electrical Safety. In the preparation of these Standards, the views of interested organizations are taken into account, i.e., regulatory authorities, industrial organizations, and representatives of general interests.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Subcommittee on C22.2 No. 0, under the jurisdiction of the Technical Committee on General Requirements and the Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee. It will be submitted to the Standards Council of Canada for approval as a National Standard of Canada.

**Interpretations:** The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA’s procedures for interpretation shall be followed to determine the intended safety principle.”

September 2010

## Notes:

- (1) Use of the singular does not exclude the plural (and vice versa) when the sense allows.
- (2) Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.
- (3) This publication was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this publication.
- (4) CSA Standards are subject to periodic review, and suggestions for their improvement will be referred to the appropriate committee.
- (5) All enquiries regarding this Standard, including requests for interpretation, should be addressed to Canadian Standards Association, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6.  
Requests for interpretation should
  - (a) define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;
  - (b) provide an explanation of circumstances surrounding the actual field condition; and
  - (c) be phrased where possible to permit a specific “yes” or “no” answer.

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are published in CSA’s periodical Info Update, which is available on the CSA Web site at [www.csa.ca](http://www.csa.ca).



# C22.2 No. 0-10

## **General requirements — Canadian Electrical Code, Part II**

### **1 Scope and object**

#### **1.1 Scope of this Standard**

This Standard specifies requirements pertaining to the following:

- (a) definitions;
- (b) construction;
- (c) equipment complying with Standards;
- (d) safety and protection;
- (e) materials and quality of work;
- (f) marking; and
- (g) tests (of a general nature).

Such requirements are applicable to all individual Standards of the *Canadian Electrical Code, Part II* (see [Clause 1.4](#)).

#### **1.2 Scope of the individual Standards of the *Canadian Electrical Code, Part II***

The individual Standards of the *Canadian Electrical Code, Part II*, provide definitions and specify construction, marking, and test requirements for a single class or closely allied group of electrical equipment.

#### **1.3 Objective of the *Canadian Electrical Code, Part II***

The objective of Standards issued as part of the *Canadian Electrical Code, Part II*, is to give consideration to the prevention of injury to persons and damage to property through proper design, good construction, and high quality of work. These safety Standards are intended to provide requirements for the design and construction of electrical equipment, primarily to address fire and electrical shock hazards and for use throughout Canada in conformity with the rules of the *Canadian Electrical Code, Part I*.

#### **1.4 Terminology**

In CSA standards, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (nonmandatory) to define their application.