



CANADIAN STANDARDS
ASSOCIATION

INFO UPDATE

Electrical/Electronics

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Info Update is published by the Canadian Standards Association (CSA) eight times a year. It contains important information about new and existing standards, e.g., recently published standards, and withdrawn standards. It also gives you highlights of other activities and services.

CSA offers a free online service called *Keep Me Informed* that will notify registered users when each new issue of *Info Update* is published. To register go to <http://www.csa-intl.org/onlinestore/KeepMeInformed/PleaseIdentifyYourself.asp?Language=EN>.

To view the complete issue of *Info Update* visit <http://standardsactivities.csa.ca/standardsactivities/default.asp?language=en>.

What you'll find

Within each program, information is organized into the following sections:

Completed Projects / Projets terminés

▼ **New Standards – New Editions – Special Publications**

This section lists new standards, new editions (including adoptions), and special publications that have been published since the last issue of *Info Update*. To place your order call 1-800-463-6727 or visit our Online Store at <http://www.csa.ca>. Prices shown are quoted in Canadian dollars and do not include applicable taxes or shipping charges. Our office locations are listed at the end of this document.

▼ **Nouvelles normes – Nouvelles éditions – Publications spéciales publiées en français**

Cette section énumère les nouvelles normes et éditions (y compris les normes adoptées) ainsi que les publications spéciales qui ont paru depuis la dernière livraison du bulletin Info-Update. Pour commander, composez le 1 800 463-6727 ou visitez notre Boutique en ligne, au <http://www.csa.ca>. Les prix sont indiqués en dollars canadiens et ne comprennent pas les taxes pertinentes ni les frais d'expédition. La liste de nos bureaux est présentée à la fin de ce document.

▼ **Amendments**

Amendments are issued periodically for some standards. This section lists amendments that have been published since the last issue of *Info Update*. Most amendments are made available to the purchaser free of charge by returning the update notification card included in the standard or registering online for the update service through the Online Store at <http://www.csa.ca> and clicking on "My Account" on the navigation bar. Amendments developed by other standards development organizations, and adopted by CSA are made available for a fee. The prices shown are quoted in Canadian dollars and do not include applicable taxes or shipping charges.

▼ **Modifications publiées en français**

Dans le cas de certaines normes, des modifications sont publiées à intervalles réguliers. Cette section présente la liste des modifications publiées depuis la dernière livraison du bulletin *Info-Update*. La plupart des modifications étant offertes gratuitement, vous n'avez qu'à remplir et à nous retourner la carte d'avis de mise à jour incluse avec chaque norme. Vous pouvez également vous inscrire en direct à notre service de mise à jour en vous rendant à la Boutique en ligne, au <http://www.csa.ca>, et en cliquant sur le bouton « Mon compte » de la barre de navigation. Des frais s'appliquent toutefois aux modifications élaborées par d'autres organismes de normalisation et adoptées par la CSA. Les prix sont indiqués en dollars canadiens et ne comprennent pas les taxes pertinentes ni les frais d'expédition.

▼ **Adopted Standards**

Adopted standards have been developed by another standards development organization and have been approved by our technical committee for use in Canada, with or without modification. They are available for sale from CSA. You will find published adopted standards listed under "New Standards — New Editions — Special Publications."

▼ **Endorsed Standards**

Endorsed standards have been developed by another standards development organization, and have been approved by the appropriate CSA technical committee for use in Canada.

Endorsed standards are not sold by CSA.

For copies, contact the originating organization or Global Info Centre Canada at 1-800-854-7179 or 613-237-4250; fax 613-237-4251; e-mail gic@ihscanada.ca; Web site <http://www.global.ihs.com>.

Completed Projects (cont'd) / Projets terminés (suite)

▼ Reaffirmed Standards

The standards listed in this section have been reviewed to determine if they remain technically valid and are acceptable for use until the next edition is published or for a further five years.

▼ Withdrawn Standards

The standards listed in this section have been withdrawn. Most withdrawn standards are available from our archived collection. Some copies may not be in original format.

To order, call toll-free 1-800-463-6727 (in Toronto, 416-747-4044).

▼ Formal Interpretations

This section lists questions that individuals have submitted about a particular standard. Each question has been reviewed and answered by the appropriate committee. If you would like to submit a question about a particular standard, please see the end notes in the preface of that standard.

Under Development

The *Under Development* section formerly published in *Info Update* is now available directly on the CSA website. This enhancement allows us to provide you with these important notifications on a more timely basis. To visit the new "Current Standards Activities" page, go to: <http://standardsactivities.csa.ca/standardsactivities/default.asp?language=en>.

Certification and Testing (CSA International)

▼ Informs Notices (Bulletins from CSA International)

An *Informs* is a notice containing information only. It does not contain anything that would require you to resubmit products for certification. If you would like a copy of an *Informs* notice, call CSA International at 416-747-4171, or fax 416-747-2476.

▼ Certification Notices

Certification notices inform you about changes that would require a product to be resubmitted for certification or about critical factors that may affect a product's certification. Products must comply with the changed requirements by the effective dates given.

CSA certification and testing clients receive these notices automatically. If you did not receive a copy or would like to receive one, call CSA International at 416-747-2488, or fax 416-747-4173.



Completed Projects / Projets terminés

New Standards – New Editions – Special Publications

C22.1 No. 1-09, 21st edition

Canadian Electrical Code, Part I, Safety Standard for Electrical Installations

Paper.....	\$150
PDF	\$150

This Code covers all electrical work and electrical equipment operating or intended to operate at all voltages in electrical installations for buildings, structures, and premises, including factory-built relocatable and non-relocatable structures, and self-propelled marine vessels stationary for periods exceeding five months and connected to a shore supply of electricity continuously or from time to time, with the following exceptions:

- installations or equipment employed by an electric, communication, or community antenna distribution system utility in the exercise of its function as a utility, as recognized by the regulatory authority having jurisdiction, and located outdoors or in buildings or sections of buildings used for that purpose
- equipment and facilities that are used in the operation of an electric railway and are supplied exclusively from circuits that supply the motive power
- installations or equipment used for railway signalling and railway communication purposes, and located outdoors or in buildings or sections of buildings used exclusively for such installations
- aircraft
- electrical systems in ships that are regulated under Transport Canada.

For mines and quarry applications, see also CAN/CSA-M421.

C22.1HB-09, 6th edition

CE Code Handbook, An Explanation of Rules of the Canadian Electrical Code, Part 1

Paper.....	\$100
PDF	\$100

This Handbook provides background information on the reasons behind the requirements in the Canadian Electrical Code, Part I, and gives an explanation of each Rule in plain, easy-to-understand language. The Handbook is intended to provide a clearer understanding of the safety requirements of the Code.

The content of this Handbook is not meant to form a code of mandatory requirements. The mandatory language ("shall") that is used in the CE Code, Part I, has not been used here. Care has been taken to ensure that the intent of the Code Rules is clear to the users of the Handbook. However, users of the Handbook must not under any circumstances rely on it to determine the current requirements of the Code. As always, reference must be made to the Code itself and any local amendments. CSA does not assume responsibility for any errors or omissions resulting from the information contained in this Handbook.



New Standards – New Editions – Special Publications (cont'd)

C22.2 No. 52-09, 6th edition

Underground Secondary and Service-Entrance Cables

PDF only \$75

This standard specifies requirements for 600-volt-class copper and aluminum conductor secondary and service-entrance cables intended for underground installation by direct burial or in duct systems. This standard also applies to multiple-conductor cable assemblies.

Amendments

C22.2 No. 46-M1988 (R2006)

Electric Air-Heaters

Revision of Clause 3.2.1 and Table 5. Addition of Clauses 6.1.1.7, 6.4.16, and 6.4.17, and Figures 3 and 4.

This document is available in Portable Document Format (PDF) only.

C22.2 No. 180-M1983 (R2008)

Series Isolating Transformers for Airport Lighting

Revision of Table 1.

This document is available in Portable Document Format (PDF) only.

Modifications publiées en français

C22.2 n° 46-M1988 (C2006)

Radiateurs électriques

Des modifications ont été apportées à l'article 3.2.1 et au tableaux 5. Les articles 6.1.1.7, 6.4.16 et 6.4.17 et les figures 3 et 4 ont été abrogées.

Cette norme est offerte en format PDF seulement.

C22.2 n° 155-M1986 (C2004)

Chauffe-conduit électriques

Des modifications ont été apportées aux articles 4.1.8.1 et 4.1.8.4. Les articles 4.1.8.7 et 5.13 ont été abrogés.

Cette norme est offerte en format PDF seulement.

Reaffirmed Standards

CAN/CSA-C22.2 No. 18.1-04 (R2009)

Metallic Outlet Boxes (tri-national standard with NMX-J-023/1-ANCE, first edition, and UL 514A, tenth edition)

CAN/CSA-C22.2 No. 18.3-04 (R2009)

Conduit, Tubing, and Cable Fittings (tri-national standard with NMX-J-017-ANCE, first edition, and UL 514B, fifth edition)

CAN/CSA-C22.2 No. 18.4-04 (R2009)

Hardware for the Support of Conduit, Tubing, and Cable (bi-national standard with UL 2239, first edition)

C22.2 No. 31-04 (R2009)

Switchgear Assemblies

C22.2 No. 124-04 (R2009)

Mineral-Insulated Cable

C22.2 No. 149-1972 (R2009)

Electrically Operated Toys

C22.2 No. 178.2-04 (R2009)

Requirements for Manually Operated Generator Transfer Panels

C22.2 No. 221-M1986 (R2009)

Electrically Heated Hobby and Educational Type Kilns

CAN/CSA-C22.2 No. 227.2.1-04 (R2009)

Liquid-Tight Flexible Nonmetallic Conduit (bi-national standard with UL 1660, fourth edition)

C22.2 No. 235-04 (R2009)

Supplementary Protectors

CAN/CSA-C22.2 No. 262-04 (R2009)

Optical Fiber Cable and Communication Cable Raceway Systems

CAN/CSA-C22.2 No. 60745-2-12-05 (R2009)

Hand-held motor-operated electric tools — Safety — Part 2-12: Particular requirements for concrete vibrators (bi-national standard with UL 60745-2-12, second edition. Adopted IEC 60745-2-12:2003, second edition, without modification)

CAN/CSA-C22.2 No. 60745-2-18-05 (R2009)

Hand-held motor-operated electric tools — Safety — Part 2-18: Particular requirements for strapping tools (bi-national standard with UL 60745-2-18, first edition. Adopted IEC 60745-2-18:2003, first edition, without modification)



Reaffirmed Standards (cont'd)

CAN/CSA-C22.2 No. 60745-2-20-05 (R2009)

Hand-held motor-operated electric tools — Safety — Part 2-20: Particular requirements for band saws (bi-national standard with UL 60745-2-20, first edition. Adopted IEC 60745-2-20:2003, first edition, without modification)

CAN/CSA-C22.2 No. 60745-2-21-05 (R2009)

Hand-held motor-operated electric tools — Safety — Part 2-21: Particular requirements for drain cleaners (bi-national standard with UL 60745-2-21, first edition. Adopted IEC 60745-2-21:2002, first edition, without modification)

CAN/CSA-C22.2 No. 61010-1-04 (R2009)

Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements (tri-national standard with UL 61010-1, second edition, and ISA-82.02.01, second edition. Adopted IEC 61010-1:2001, second edition, with Canadian deviations)

CAN/CSA-C22.2 No. 61010-2-010:04 (R2009)

Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-010: Particular requirements for laboratory equipment for heating of materials (Adopted IEC 61010-2-010:2003, second edition, without modification)

CAN/CSA-C22.2 No. 61010-2-032:04 (R2009)

Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-032: Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement (Adopted CEI/IEC 61010-2-032:2002, second edition, without modification)

CAN/CSA-C22.2 No. 61010-2-051:04 (R2009)

Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-051: Particular requirements for laboratory equipment for mixing and stirring (Adopted CEI/IEC 61010-2-051:2005, second edition, without modification)

CAN/CSA-C22.2 No. 61010-2-061:04 (R2009)

Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization (Adopted CEI/IEC 61010-2-061:2005, second edition, without modification)

CAN/CSA-C22.2 No. 61010-2-081:04 (R2009)

Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes (CEI/IEC 61010-2-081:2001, first edition, without modification)

CAN/CSA-C22.2 No. 61010-2-101:04 (R2009)

Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment (Adopted CEI/IEC 61010-2-101:2002, first edition, without modification)

Reaffirmed Standards (cont'd)

CAN/CSA-C156.1-M86 (R2009)
Ceramic and Glass Station Post Insulators

CAN/CSA-C156.3-M86 (R2009)
Test Methods for Station Post Insulators

CAN/CSA-C411.1-M89 (R2009)
Ac Suspension Insulators

Certification and Testing (CSA International)

Certification Notices

Please note: ► Notices marked with an arrowhead are new in this issue.

Effective Date	Subject	Title
April 30, 2009	Publication of Update No. 4 to CSA standard C22.2 No. 112-97 (R2007), <i>Electric Clothes Dryers</i> (bi-national standard with UL 2158). The update contains revisions for installation instructions.	Clothes Dryer Equipment No. 4
July 1, 2009	Publication of CSA standard CAN/CSA-E60691:08, <i>Thermal-Links — Requirements and Application Guide</i> (Adopted CEI/IEC 60691:2002, third edition, including Amendment 1:2006, with Canadian deviations).	Signal Sensing and Controls No. 5
December 15, 2009	Publication of Update No. 2 to CSA standard C22.2 No. 227.2.1-04, <i>Liquid-Tight Flexible Nonmetallic Conduit</i> (bi-national standard with UL 1660).	Conduit No. 22
► December 31, 2009	Publication of Update No. 4 to CSA standard C22.2 No. 42-99, <i>General Use Receptacles, Attachment Plugs and Similar Wiring Devices</i> . Ground Fault Circuit Interrupter (GFCI) devices, combined with receptacles having tamper resistant feature, CSA Certified to the CSA Standard C22.2 No. 144.1 shall comply with the new test requirements and new marking requirements of Update No. 4 to CSA Standard C22.2 No. 42-99, by the effective date of December 31, 2009.	Ground Fault Circuit Interrupters No. 7
December 31, 2009	Publication of Update No. 4 to CSA standard C22.2 No. 42-99, <i>General Use Receptacles, Attachment Plugs and Similar Wiring Devices</i> .	Wiring Devices No. 56

**Certification Notices (cont'd)**

Effective Date	Subject	Title
December 31, 2009	Publication of Update No. 2 to CSA standard C22.2 No. 130-03, <i>Requirements for Electrical Resistance Heating Cables and Heating Device Sets</i> . (Supersedes Wiring Devices No. 37.)	Wiring Devices No. 37A
January 1, 2010	Publication of the second edition of CSA standard CAN/CSA-C681-06, <i>Performance of Self-Ballasted Compact Fluorescent lamps and Ballasted Adapters</i> .	Verification Service Announcement No. 35
January 5, 2010	Publication of CSA standard C22.2 No. 45.2-08, <i>Electrical Rigid Metal Conduit — Aluminum, Red Brass, and Stainless Steel</i> (bi-national standard with UL 6A, 2nd edition).	Conduit No. 23
March 10, 2010	Publication of Update No. 2 to CSA standard C22.2 No. 243-01, <i>Vacuum Cleaners, Blower Cleaners and Household Floor Finishing Machines</i> (bi-national standard with UL 1017).	Vacuum Cleaners and Blower Cleaners No. 9
March 31, 2010	Publication of Amendments to UL 1059, <i>Terminal Blocks</i> . (Supersedes Wiring Devices No. 40.)	Wiring Devices No. 40A
April 1, 2010	Publication of CSA standard C22.2 No. 250.7-07, <i>Extra-low-voltage Landscape Lighting Systems</i> . (Supersedes Lighting Products No. 34.)	Lighting Products No. 52
May 31, 2010	Publication of CSA standard C68.10-08, <i>Shielded Power Cable for Commercial and Industrial Applications, 5-46 KV</i> .	Wire and Cable No. 139
May 31, 2010	Extension of effective date for CSA standard CAN/CSA-C22.2 No. 42.1-00, <i>Cover Plates for Flush-Mounted Wiring Devices</i> (bi-national standard with UL 514D).	Wiring Devices No. 39A
June 1, 2010	Publication of CSA standards CAN/CSA-C22.2 No. 60745-1-04 and CAN/CSA-C22.2 No. 60745-2-04 (bi-national standards with UL 60745-1 and associated Part 2 series standards).	Electrical Tools No. 15
July 1, 2010	Publication of Update No. 2 to CSA standard C22.2 No. 62.1-03, <i>Nonmetallic Surface Raceways and Fittings</i> (bi-national standard with UL5A).	Raceways and Fittings No. 7

Certification Notices (cont'd)

Effective Date	Subject	Title
September 17, 2010 (existing certifications). Immediately for new applications.	Publication of CSA standard C22.2 No. 250.0-08, <i>Luminaires</i> (bi-national standard with UL 1598, 3rd edition). (Supersedes Lighting Products No. 35, 35A, and 47.)	Lighting Products No. 53
December 1, 2010	Publication of CSA standard CAN/CSA-C22.2 No. 60950-1-07 (bi-national standard with UL 60950-1).	Information Technology and Electrical Business Equipment No. 16
January 1, 2012	Publication of CAN/CSA-E61131-2:06, <i>Programmable controllers — Part 2: Equipment requirements and tests</i> (Adopted IEC 61131-2:2003, 2nd edition, with Canadian deviations).	Programmable Controllers No. 1
May 1, 2012	Publication of bi-national standard CSA C22.2 No. 66-06 Series and UL 5085 Series, <i>Low Voltage Transformers</i> .	Transformers No. 6
August 21, 2016	Publication of CAN/CSA-C22.2 No. 60335-2-24-06, <i>Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice Cream Appliances and Ice Makers</i> (tri-national standard with UL 60335-2-24 and NMX-J-521/2-24-ANCE-2006. Adopted IEC 60335-2-24:2002, sixth edition, with national deviations).	Household Refrigerators and Freezers No. 3