Electrical Wiring Residential (Canadian) 9th edition Mullin Solutions Manual

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Unit 1 - General Information for Electrical Installations

REVIEW

Note: Where applicable, responses should be written in complete sentences.

1. What is the difference between a code and a standard?

a. Codes are standards that deal with life safety issues.
b. Standards describe minimum performance levels.
See **Codes and Standards.**

2. What *Code* sets standards for the installation of electrical equipment?

The *Canadian Electrical Code, Part I* sets the basic standard, with local and provincial codes as standards that also must be considered. See **Codes and Standards.**

3. What authority enforces the standards set by the *CEC?*

The provincial or local electricity inspection authority enforces the standards set by the *CEC*. See **Codes and Standards.**

4. Does the *CEC* provide minimum or maximum standards?

The *CEC* standards are minimum standards but are expressed in both minimum and maximum terms; e.g., *Rule 2-308* is a minimum working space of 1 m around electrical equipment, while *Rule 8-104* is a maximum circuit loading. Both of these are minimum standards. See **Codes and Standards.**

5. What do the letters CSA signify?

CSA signifies Canadian Standards Association. See **Testing and Accreditation | CSA Group**.

6. Does compliance with the *CEC* always result in an electrical installation that is adequate, safe, and efficient? Why?

Section 0 Object of the *CEC* states that "Compliance with the requirements of this Code and proper maintenance will ensure an essentially safe installation." However, if adequate provision is not made for future expansion, a hazardous condition could develop.
See **Codes and Standards.**

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7. What are the general sections of the *CEC?*

Under General arrangement in the Preface of the *CEC*, it states that the general sections are Sections 0 to 16, and 26.

8. Is the section of the *CEC* that deals with wiring methods a general section or an amending section?

The section of the *CEC* that deals with wiring methods is a general section.
See **Codes and Standards,** *CEC* Preface.

9. When is an electrical installation required to be inspected?

ALL work is required to be inspected. See **Electrical Inspection,** *CEC 2-004.*

10. What should you look for when trying to determine if a piece of electrical equipment is approved for use in Canada?

You should look for the CSA logo or other approval mark on the equipment. See **Testing and Accreditation.**

11. If a piece of electrical equipment is not approved for use in Canada, what should you do?

Special inspection should be obtained for a piece of electrical equipment that is not approved for use in Canada. *Rule 2-024 references Appendix B, which cautions installers that field modifications may void the designated certification on a piece of equipment.* See **Testing and Accreditation,** *CEC 2-024.*

12. When the words "shall be" appear in a code reference, they mean that it (must) (may) (does not have to) be done. (Underline the correct answer.)

See **Codes and Standards | Some *Code* Terminology,** *CEC C11.1 in Appendix C.*

13. Why is it important for standards organizations to exist?

Standards provide a framework of language, behaviour, and performance that match the expectations of consumers. Consumers can expect quantifiable, reliable performance from products and services that adhere to a reputable standard. In the absence of a standard, all goods and services become subjective and thus will vary between manufacturers and practitioners. See **Testing and Accreditation.**

14. Which Red Seal Skill requires you to identify sources of information relevant to planning job tasks, specifically creating and keeping to job schedules?

Task A-3.03. See Red Seal Occupational Standard.

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