

Unit 01: Introduction to the National Electrical Code®

Multiple Choice

1. The NEC® arose as a consensus of more than 1,200 individuals primarily to
- standardize price schedules.
 - combat a growing epidemic of electrical fires.
 - standardize equipment.
 - use as a marketing tool.

ANSWER: b

2. Which agency is responsible for the maintenance and publication of the NEC®?
- National Association of Electrical Engineers (NAEE)
 - National Firefighters Association (NFA)
 - Underwriters Laboratories (UL)
 - National Fire Protection Association (NFPA)

ANSWER: d

3. NEC® tables such as 210.21(B)(3) present a requirement's
- multiple application possibilities.
 - pricing structures.
 - revision schedules.
 - governing agencies.

ANSWER: a

4. Mandatory rules in the NEC® contain the language
- must or must not.
 - shall or shall not.
 - penalties for noncompliance.
 - suggested but discretionary.

ANSWER: b

5. Formal interpretations of the NEC® are governed by
- regional construction authorities.
 - Underwriters Laboratories.
 - OSHA.
 - NFPA.

ANSWER: d

6. In addition to installation rules, the NEC® is concerned with the
- types of installation methods.
 - electrical contractor licensing requirements.
 - type and quality of electrical wiring system materials.
 - supervising agency.

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ANSWER:

c

7. The term labeled means that

- a. equipment or material must continue to comply with the appropriate standards (or performance) under which the labeling was granted.
- b. equipment, materials, or services meet appropriate designated standards or have been tested and found suitable for a specified purpose.
- c. equipment or material complies with discretionary standards as listed in the NEC®.
- d. equipment or material is labeled for sale to general or subcontractors.

ANSWER:

a

8. The term listed means that

- a. equipment, materials, or services meet appropriate designated standards or have been tested and found suitable for a specified purpose.
- b. equipment or material must continue to comply with the appropriate standards (or performance) under which the labeling was granted.
- c. equipment or material complies with discretionary standards as listed in the NEC®.
- d. equipment or material is listed for sale by general or subcontractors.

ANSWER:

a

9. The NRTL program specified in the regulation OSHA Recognition Process for Nationally Recognized Testing Laboratories

- a. regulates training standards.
- b. regulates labor standards for electrical contractors.
- c. accredits and regulates independent laboratories.
- d. accredits electrical material manufacturing facilities.

ANSWER:

c

10. The UL logo indicates that

- a. the listed product is guaranteed to be risk free.
- b. the listed product complies with UL standards.
- c. the product complies with OSHA standards.
- d. independent testing was performed in Underwriter's Laboratories.

ANSWER:

b

11. The word luminaire refers to

- a. the light source only.
- b. the complete lighting unit.
- c. the lampholder.
- d. parts to position the light source.

ANSWER:

a

12. The Illustrated Guide to the NEC® should be used as a(n)

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- a. supplement to the NEC®.
- b. index for the NEC®.
- c. graphical substitution for the NEC®.
- d. replacement for difficult sections of the NEC®.

ANSWER:

a

13. Local ordinances

- a. may adopt the NEC® as written or amend the Code with more or less stringent regulations.
- b. are superseded by the NEC®.
- c. are included in most copies of the NEC®.
- d. must be amended to accommodate specific wiring diagrams.

ANSWER:

a

14. The practical safeguarding of persons and property from hazards arising from the use of electricity is the purpose of the

- a. NFPA 70e standard.
- b. Electrical handbook for installation safety.
- c. NEC.
- d. OSHA electrical standards.

ANSWER:

c

15. To provide comments for changes to the next edition of the NEC, a person can submit a(n)

- a. application with the local JHA.
- b. Public Input.
- c. change directive application.
- d. Public Comment.

ANSWER:

b

16. A bullet (solid black circle) point is used in the NEC to

- a. list important facts that are grouped together.
- b. show a connection between two concepts or principles.
- c. break down articles into simpler topics.
- d. indicate areas where material has been deleted or moved.

ANSWER:

d

17. Sections are

- a. numerical listings where the Code requirements are located.
- b. made up of sub-articles and are used for cross-referencing.
- c. alphabetical listings used to describe electrical topics.
- d. used in the NEC instead of the Chapters.

ANSWER:

a

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18. The role of NRTLs is to

- a. ensure adoption of the latest standards for manufacturing electrical equipment.
- b. ensure that electrical products properly safeguard against reasonable, identifiable risks.
- c. enforce the use of only approved, labeled, and listed equipment used in commercial locations.
- d. test every unique device type used in the residential and commercial industries.

ANSWER:

b

19. The US organization that comprises companies that manufacture equipment for all facets of electrical applications is

- a. the National Device Manufactures Organization.
- b. the National Electrical Manufacturers Association.
- c. the International Electrical Association of Guilds.
- d. Dover National Electrical Technics or DNET.

ANSWER:

b

20. In accordance with 110.3(B),

- a. all manufacturers' instructions must be followed for certain equipment or material.
- b. an edition of the NEC not older than 10 can be used by a competent engineer for residential project planning.
- c. a current copy of the NEC must be made available at your local electrical supplier.
- d. a qualified electrician must make all final interpretations when referring to the code contained within the NEC.

ANSWER:

a

21. An organization that boasts an international membership of more than 75,000 members and publishes over 300 recognized codes on electrical safety and statistics, information on fire protection, prevention and suppression is the

- a. IEC.
- b. NEMA.
- c. ASPCA.
- d. NFPA.

ANSWER:

d

22. By 1895, how many different electrical installation codes were in use?

- a. 3
- b. 5
- c. 7
- d. None

ANSWER:

b

23. What has been established to and are found in the Regulations Governing the Development of NFPA Standards?

- a. The standards of safety and electrical integrity
- b. The Rules of Electrical Installation Procedures
- c. Formal interpretation procedures
- d. Interpretation Instructions and Guidance Handbook

ANSWER:

d

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24. The original Code was developed by the combined effort of
- a. various scientists, health authorities, and government.
 - b. many individual contract employees, utility serviceman, and engineers.
 - c. licensed electricians and government authorities.
 - d. various insurance, electrical, architectural, and allied interests.

ANSWER: d

25. What led to the development of the National Electrical Code?
- a. The need for standardization in electrical installations and operations
 - b. The introduction of the Pearl Street Station in New York
 - c. The rapid increase in the number of customers for electric lighting
 - d. The invention of new materials and equipment for the electric industry

ANSWER: a

26. Which individual is credited with the development of the first central-station electric generating plant in New York City?

- a. Thomas A. Edison
- b. Benjamin Franklin
- c. Nikola Tesla
- d. Alexander Graham Bell

ANSWER: a

27. The NEC provides the electrical industry
- a. guidelines for global electrical standards.
 - b. manufacturer instructions for electrical systems.
 - c. standards for judging electrical installations.
 - d. technical rules for the medical professions.

ANSWER: c

28. Chapter 9 of the NEC contains
- a. definitions and interpretations.
 - b. tables and examples.
 - c. safety program documentation examples.
 - d. violation penalties and citation appeal procedures.

ANSWER: a

29. Which section of the NEC provides definitions essential to the proper application of the Code?
- a. Chapter 1
 - b. Chapter 2
 - c. Chapter 3
 - d. Chapter 4

ANSWER: a

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30. The information included in Chapters 2, 3, and 4 of the NEC are
- the definitions essential to the proper application of the NEC.
 - the introduction and general requirements for the electrical installations.
 - wiring and protection, wiring methods and materials, and equipment for general use.
 - a breakdown of the information found in the NEC.

ANSWER:

c

31. Perhaps one of the most widely recognized NRTLs uses which logo shown below?

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- 

ANSWER:

b

32. Identify the logo that represents the first U.S. laboratory to successfully complete the accreditation process for independent testing laboratories.

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- 
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ANSWER:

a

33. One of the objectives of the companies that make up the National Electrical Manufacturers Association is
- to develop the NEC.
 - manufacturing equipment for electrical generation.
 - the enforcement of the local electrical safety regulations.
 - the promotion of renewable energy sources.

ANSWER:

b

34. The primary pursuit of the National Fire Protection Association (NFPA) is
- conducting research on energy efficiency statistics.

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- b. to protect lives and property from the hazards of fire.
- c. the enforcement of the manufacturers' guidelines.
- d. publishing instructional materials.

ANSWER:

b