

Final Exam
Continuing Education Course #534
Electrical Power
Part V: The National Electrical Safety Code (NESC)

1. Communication locations are in 224A4. What Section is this in?

- ☐ a. 2
- ☐ b. 22
- ☐ c. 24
- ☐ d. A4

2. Which of the following indicates the demarcation between coverage by the NESC and the NEC?

- ☐ a. substation
- ☐ b. service entrance
- ☐ c. end-user building
- ☐ d. power station transmission lines

3. A number is to be rounded to three significant digits. The number is 39.83 ft and is for clearance requirement of "not less than" 40 ft.

What is the correct number to be used to meet the requirement when rounded?

- ☐ a. 39.0
- ☐ b. 39.8
- ☐ c. 39.9
- ☐ d. 40.0

4. What "rank" does the IEEE Dictionary have in defining the terms in the NESC?

- ☐ a. 1
- ☐ b. 2
- ☐ c. 3
- ☐ d. 4

5. What portion of the NESC is NOT informative only?

- ☐ a. appendix
- ☐ b. annex
- ☐ c. note
- ☐ d. rule

6. Where would one find a list of standards that form part of the requirements of the NESC?

- ☐ a. Appendix
- ☐ b. Bibliography
- ☐ c. Notes
- ☐ d. Section 3

7. In Section 09, Grounding, what is the voltage level that delineates differing grounding requirements?

- ☐ a. 110 V
- ☐ b. 220 V
- ☐ c. 450 V
- ☐ d. 750 V

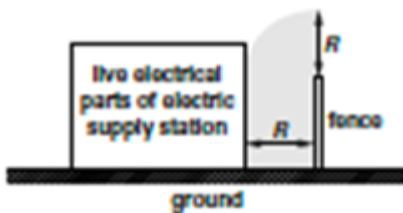
8. The Specification 09 ampacity of _____ conductors is that fault current of a given time-duration should not melt or damage the conductor.

- ☐ a. grounding
- ☐ b. neutral
- ☐ c. service
- ☐ d. transmission line

9. An enclosure must be around electric supply stations.

- ☐ a. 7 ft
- ☐ b. 10 ft
- ☐ c. 15 ft
- ☐ d. depends on station

10. Consider the following.



What is the working space requirement for "R" if the voltage is 440 V?

- ☐ a. 30 in
- ☐ b. 3 ft
- ☐ c. 7 ft
- ☐ d. 10 m

11. Rule 131 requires that motors not restart after a power loss.

What type of controller is required?

- ☐ a. LVP
- ☐ b. LVR
- ☐ c. LVRE
- ☐ d. Manual

12. Per Section 16, conductors must meet certain conditions.

Which is NOT one of those

- ☐ a. adequate ampacity
- ☐ b. adequate voltage rating
- ☐ c. suitable for intended use
- ☐ d. suitable bend radius in cold conditions

13. Which of the following statements about the New England states are true?

- ☐ a. According to National Electrical Safety Code (NESC) Rule 250, the states are considered to be in the medium weather zone. Therefore, they must meet the clearance requirements of zone 1 of NESC Rule 230.
- ☐ b. According to NESC Rule 250, the states are considered to be in the medium weather zone. Therefore, they must meet the clearance requirements of zone 2 of NESC Rule 230.
- ☐ c. According to NESC Rule 250, the states are considered to be in the heavy weather zone. Therefore, they must meet the clearance requirements of zone 1 of NESC Rule 230.
- ☐ d. According to NESC Rule 250, the states are considered to be in the heavy weather zone. Therefore, they must meet the clearance requirements of zone 2 of NESC Rule 230.

14. Power and communications lines buried in concrete shall be separated by a minimum of _____ inches.

- ☐ a. 3
- ☐ b. 4
- ☐ c. 9
- ☐ d. 12

15. If the separation of buried electrical lines cannot be met, what is the resolution?

- ☐ a. use conduit
- ☐ b. move the lines parallel
- ☐ c. use larger electrical lines
- ☐ d. protect using metallic jacket