

Course Title

RV-11550 - 2020 NEC® Changes: Special Occupancies

Contact Hours: 1

This course covers the changes in Articles 500 through 590 of the National Electrical Code®. Notable changes are addressing the use of lasers in hazardous locations; clarifying the GFCI requirements throughout Chapter 5; addressing the applicability of Article 517's requirements; major changes for marinas, boatyards, and similar locations; and new requirements for large, temporary wiring installations.

Course Objectives:

By the end of this course, you will be able to:

- Name the permitted uses of type P cables
- List the areas of healthcare facilities that are not required to comply with part two of Article 517
- Recall when a leakage current measuring device is required for marinas and boatyards
- Recognize when GFCI protection is required
- Determine when a combustible gas detection system may be used
- Name the type of radiation the 2020 NEC addresses on the dangers of ignition
- Recognize the approved applications and limitations of TC-ER-HL cable
- Describe the underground wiring requirements for commercial garages
- List the types of buildings, structures and conductors covered under Article 545
- State the requirement for underground equipment grounding conductors in agricultural buildings that are regulated by Article 547
- State the receptacle requirements for RV sites and marinas
- Identify when current limiting overcurrent devices are required for temporary installations

Content Outline

Introduction

3 Minutes

- Course Overview

Article 500 Hazardous Locations

6 Minutes

- 500.7 Protection Equipment
- 500.8 Equipment

Article 501 Class I Locations

5 Minutes

- 501.10 Wiring Methods 8

Article 511 Commercial Repair and Storage Garages

5 Minutes

- 511.8 Underground Wiring Below Class I Locations
- 511.12 Ground-Fault Circuit Interrupter (GFCI) Protection for Personnel

Article 517 Health Care Facilities

10 Minutes

- 517.10 Applicability

- 517.26 Other Articles

Article 545 Manufactured Buildings and Relocatable Structures 14 2 Minutes

- 545.1 Scope

Article 547 Agricultural Buildings 2 Minutes

- 547.5 Wiring Methods

Article 551 Recreational Vehicles (RVs) and Recreational Vehicle Parks 4 Minutes

- 557.71 Types of Receptacles

Article 555 Marinas, Boatyards, Floating Buildings, and Commercial and Noncommercial Docking Facilities 15 Minutes

- 555.1 Scope
- 555.13 Bonding
- 555.35 Ground-Fault Protection of Equipment (GFPE) and Ground-Fault Circuit Interrupters (GFCIs)
- 555.35, ground fault protection of equipment and ground fault circuit interrupters, GFCIs. The GFCI and GFPE requirements were extensively revised.
- 555.53 Ground-Fault Protection

Article 590 Temporary Installations 5 Minutes

- 590.6 GFCI Protection for Personnel
- 590.8 Overcurrent Devices

Conclusion 3 Minutes

- Summary and Implications

1. List of reference and source materials/bibliography

All material necessary to complete the course is included in the course. A subject matter expert using his or her own personal knowledge writes the course. Students are not directed to additional material as a requirement for course completion, only as added information for personal interest.

2. Instructor Information

Ryan Jackson – Resume Attached

3. Totals hours of Instruction

1 Hour(s) – this course is online and available 365/24/7 to anyone with internet access

4. Certificate of completion

sample is attached

5. Proof of compliance with interactive distance learning requirements

- a. Courses are being developed with interactivity as a key component in its development. RedVector's 'rule of thumb' is to insert an activity every 3 to 5 minutes or 500 to 800 words of text. We offer a variety of activities through the coursework to keep the user involved and requiring knowledge of the course materials being reviewed in order to move forwards.
- b. Users sign into an account with a unique User Name and Password. We request that a user agree to an affidavit stating that they are the owner of the account before proceeding to the exam. Course completion is measured by passing the exam with a minimum score of 75%.
- c. FL Contractors are notified at the beginning of the course that they are required to spend 50 minutes per credit hour in the course in order to receive an accreditation certificate. The LMS will not allow a certificate to be issued or reflect course completion until the time requirement is met by the user.
- d. By one click of the button on each screen of the coursework, the user is given the option to obtain information in several ways. We have a FAQ page, direct email request to Client Support or they may call through a Toll Free number. Our Client Support Team is available from 8 am to 6 pm, Monday thru Friday. If there is a general question, RedVector consults with several Subject Matter Experts that respond to questions in a timely manner. If the question is more specific requiring a direct response from the course author, communication is made with the author to provide the user a response.
- e. There is a statement required to be agreed upon by the User confirming their identity before and after taking the test.
- f. Each account is established with a unique user name and password in order to access. If a user is taking a longer than normal time to review a section, they will receive a pop-up and have 90 seconds to respond or their session will time out requiring the user to sign into the site again if they wish to continue the coursework.