

Course Title

RV-11546 - 2020 NEC® Changes: Devices, Lighting, and Gear

Contact Hours: 1

This course covers the changes in Articles 404, 406, 408, and 410 of the National Electrical Code®. Articles 404 and 406 contain the requirements for switches and receptacles. Article 408 covers panelboards, switchboards, and switchgear. Article 410 covers luminaires, lampholders, and lamps. Notable changes include updating the rules for switches, including listing requirements, new prohibited locations for receptacles, expansion of tamper-resistant receptacle requirements, new marking requirements for panelboards, switchboards, and switchgear, and addressing the unique needs of horticultural lighting.

Course Objectives:

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

- Describe the permitted use and ratings of switches
- State the requirements when replacing automatically controlled receptacles
- Recall the rules for receptacles under sinks
- Note the approved placement of receptacles in bathrooms
- List the rating of nonlocking receptacles that must be tamper resistant if installed in dormitory units
- List the locations requiring tamper resistant receptacles
- Recognize when panelboards must be field labeled
- Recall the circumstances in which recessed luminaires can be used to access junction boxes
- Locate the part of the code that covers horticultural lighting

Content Outline

Introduction Course Overview	(2 minutes)
Article 404 Switches	(7 minutes)
Article 406 Receptacles Cord Connectors Attachment Plugs (Caps)	(24 minutes)
Article 408 Switchboards Switchgear Panelboards	(14 minutes)

Article 410 (7 minutes)

Luminaires
Lampholders
Lamps

Part XVI (4 minutes)

Special Provisions for Horticultural Lighting

Conclusion (2 minutes)

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 not 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.