

Syllabus ET 2023 Electrical Code Update - 4 hours

APPROVED COURSE:

This course is approved by the State of Michigan, Department of Licensing and Regulatory Affairs, Bureau of Construction Codes. **Approval ID number: 20-1174250.**

OBJECTIVES OF COURSE:

1. Learn the scope the extent of application of the *National Electrical Code (NEC)*, *Michigan Residential Code (MRC)*, and Michigan's *Part 8 Electrical Rules*.
2. Develop a better understanding of how to use and interpret the *Michigan Electrical Code, (MEC)*.
3. Learn about the reorganization of articles and sections within articles of the *NEC*.
4. State the major changes from the 2017 to the 2023 editions of the *NEC* and the *MEC*.
5. Explain how the *MRC* and where it differs from the *MEC*.
6. Practice finding answers to electrical questions from the *2023 Michigan Electrical Code*.
7. Review the rules in *Public Act 407 of 2016* and *Public Act 230 of 1972* as presently amended.

NECESSARY CLASS ITEMS:

You will need to refer to the following items for lectures, completion of sample problems and for the final exam.

- *2023 National Electrical Code*, National Fire Protection Association (NFPA).
- A calculator.

SUGGESTED CLASS ITEMS:

You will be referring to the following text book for lectures.

- *2015 Michigan Residential Code*, International Code Council (ICC).

COURSE STRUCTURE:

This course consists of an introduction, three lessons and a final exam. Each lesson, in this course, consists of background reading material, and a lecture. It is anticipated that a minimum of 4 hours total will be required to complete this course.

TECHNICAL HELP:

If you need technical assistance at any time during the course or to report a problem, you can visit the *Desire 2 Learn* help site. Technical assistance will provide help with:

- accessing the course
- viewing the online lectures or student practice problems
- hearing the online lectures
- viewing or printing the reading material for the course
- getting feedback on student practice problems
- determining your final exam score

For assistance, contact the *MSU IT SERVICE DESK* in your favorite web browser navigate to <https://tech.msu.edu/support/help>. An email address and phone numbers are provided for you to make contact with support personnel.

TIME LIMIT:

You may complete course requirements at your own personal pace, however, you will be limited to a **maximum of three-months** to complete this code update course. From the date that the course fee is paid, you have three-months to complete the course requirements. Failure to pass the course within the three month time period will require you to repay the course tuition fee, to continue in this State of Michigan Approved electrical code update course.

No warnings will be provided stating your access to the course access period is about to lapse.

PASSING THE COURSE:

To pass this course, you must view the introduction (from start to finish as standard playback speed) all three of the online lectures (from start to finish as standard playback speed) **and** successfully pass the final examination with a minimum score of 75%, within the three-month time period.

If you fail the examination, it is permitted to go back and re-study the course material and take the examination again, until a passing grade is achieved.

FINAL EXAM:

Each final exam will consist of 52 questions multiple choice questions. To achieve a passing grade you will have to correctly answer 39 of the 52 questions.

Have your Code book, all of the course handouts and calculator available. They will be a necessity to complete the exam. You will be given only two hours to complete the exam. It is suggested that you block out the appropriate amount of time to minimize interruptions and distractions. Once you open the exam, your two hours start.

You will know the results of the final exam immediately upon its completion.

OBTAINING A CODE UPDATE CERTIFICATE:

The course instructor is not monitoring your activity daily. No automatic notification is sent to course instructors detailing your exam scores.

A Code update certificate will be granted to each Michigan licenced journey and/or master electrician who viewed the introduction (from start to finish as standard playback speed), viewed all three of the online lectures (from start to finish as standard playback speed) and successfully pass the final examination with a minimum score of 75%, within the three-month time period.

Once you successfully passed the course, email Jon Althouse, althous2@msu.edu include your:

- Name as it is listed on your electrical license
- Master and/or Journey Electrician license number
- Mailing address and
- Phone number

The course instructor will verify that you have successfully completed the course requirements, and will process a Code Update Certificate. Please allow 5 business days for your copy of the Code update certificate to be processed.

STUDY HINTS:

To be successful at understanding the course material, the following method is suggested.

1. First, skim through the readings to become familiar with the material.
2. Second, view the online lecture. Make sure you have your calculator, National Electrical Code book, and reading exercises handy. Have a notepad and work the examples as they are presented, to re-enforce the concepts. Take notes during the online lecture to help you recall topics at a later time.
3. Third, read the Code sections throughly, to aid in comprehending the material.

QUESTIONS:

Students and instructors may not be online at the same time. However, if you have any questions about the course material, there is a discussion board that will allow for interaction between the learners and course instructors. The interaction may not happen in real-time, but rather in a delayed format. Under most conditions, questions will be answered electronically within five business days of posting a question.