# COURSE TITLE

2023 NEC Changes: Wiring Methods

# COURSE DURATION

1 Hour

# OVERVIEW

Did you know there are two new codes regarding wiring methods added to the 2023 NEC®? This interactive online course covers the changes to wiring methods in the 2023 National Electrical Code®. Articles covered in this course include Articles 320, 334, 336, 342, 352, 356, 358, 369, and 371. Article 320 covers armored cable (Type AC). Article 334 covers non-metallic-sheathed cables (Types NM and NMC). Article 336 covers power and control tray cable (Type TC). Article 342 covers intermediate metal conduit (IMC). Article 352 covers rigid polyvinyl chloride conduit (PVC). Article 356 covers liquid-tight flexible nonmetallic conduit (LFNC). And Article 358 covers electrical metallic tubing (EMT). Notable changes include the addition of Article 369, which covers insulated bus pipe (IBP)/tubular covered conductors (TCC), and Article 371, which covers flexible bus systems. By the end of the course, learners will understand the critical regulations, best practices, and safety considerations for wiring methods outlined in 2023 NEC®.

# PREREQUISITES

No prior knowledge is required.

# BEHAVIORAL OBJECTIVES

After successfully completing this course, you will be able to:

* Explain the requirements for cables in attics as described in 320.23
* List the permitted uses of NM cable in 334.10
* Discuss the revisions in 334.24 for cable bending radius
* Describe why the allowances of 334.40 were expanded
* Recognize when 336.10 allows tray cable for services
* List the increased permitted sizes in 342.20 and 358.20 for IMC and EMT
* Explain the clarifications for Schedule 40 and Schedule 80 PVC in 352.10
* Recall when 352.44 requires expansion fittings
* List the permitted uses in 356.10 for liquid type flexible nonmetallic conduit
* Discuss the new allowances for EMT in 358.10
* Recall what the new Article 369 covers
* Explain what the new Article 371 applies to

# COURSE OUTLINE

|  |  |
| --- | --- |
| **Chapter** | **Minutes** |
| Introduction | 2 |
| Article 320 Armored Cable (Type AC) | 8 |
| Article 334 Nonmetallic-Sheathed Cable (Types NM and NMC) | 15 |
| Article 336 Power and Control Tray Cable | 2 |
| Article 342 Intermediate Metal Conduit (IMC) | 3 |
| Article 352 Rigid Polyvinyl Chloride Conduit (PVC) | 2 |
|  |  |
| Article 358 Electrical Metallic Tubing (EMT) | 6 |
| Article 369 Insulated Bus Pipe (IBP)/Tubular Covered Conductors (TCC) | 4 |
| Article 371 Flexible Bus Systems | 3 |
| Conclusion | 2 |
|  |  |
|  |  |
|  |  |
| **Course Total** | **52** |
| **+ Study Exercises (TS)/Checkpoints (RV) (10% Course Total)** | **5.2** |
| **+ Supporting Documents (word count/145)** |  |
| **= Grand Total** | **57.2** |

# AVAILABILITY

This course is offered online and is available 24 hours a day, 7 days a week, 365 days a year.

# TRAINING METHODOLOGY & EVALUATION

This course is self-paced online training. Review exercises reinforce the content, and students are evaluated with a multiple-choice exam. Upon completion, students are prompted to submit a course evaluation.

**REFERENCES**

# National Electrical Code, 2023 Edition, Articles 320, 334, 336, 342, 352, 356, 358, 369, and 371.